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UNITED STATES GEOLOGICAL SURVEY

CHARLES D. WALCOTT, DIRECTOR

I N D E X

TO

NORTH AMERICAN GEOLOGY, PALEONTOLOGY, PETROLOGY,
AND MINERALOGY

FOR

THE YEARS 1892-1900, INCLUSIVE

BY

FRED BOUGHTON WEEKS



WASHINGTON
GOVERNMENT PRINTING OFFICE

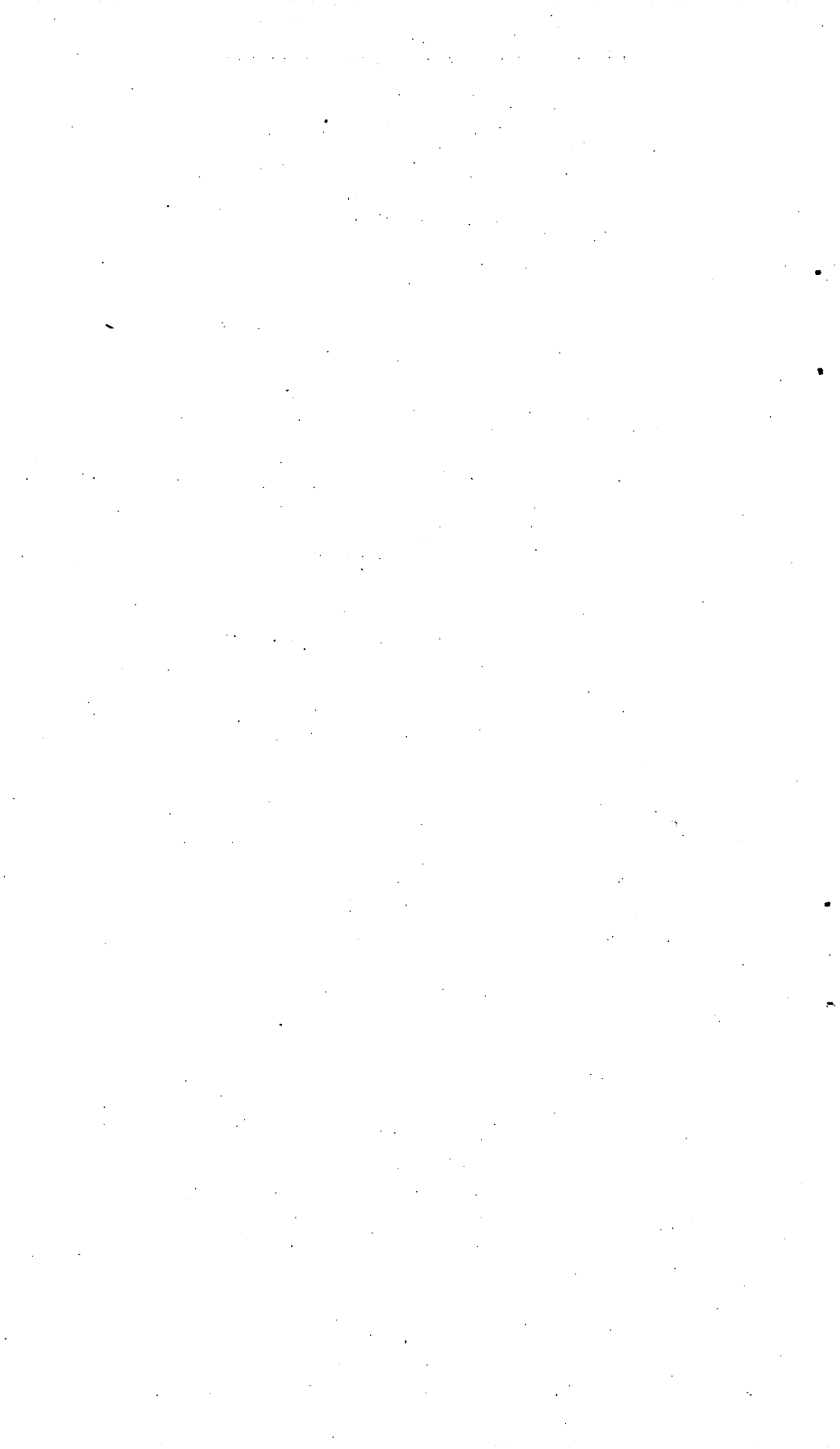
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LETTER OF TRANSMITTAL.

DEPARTMENT OF THE INTERIOR,
UNITED STATES GEOLOGICAL SURVEY,
Washington, D. C., August 2, 1901.

SIR: I have the honor to transmit herewith the manuscript for an Index to North American Geology, Palentology, Petrology, and Mineralogy for the Years 1892-1900, inclusive, and to request that it be published as a bulletin of the Survey. It is a companion to Bulletin No. 188.

Very respectfully,

F. B. WEEKS.

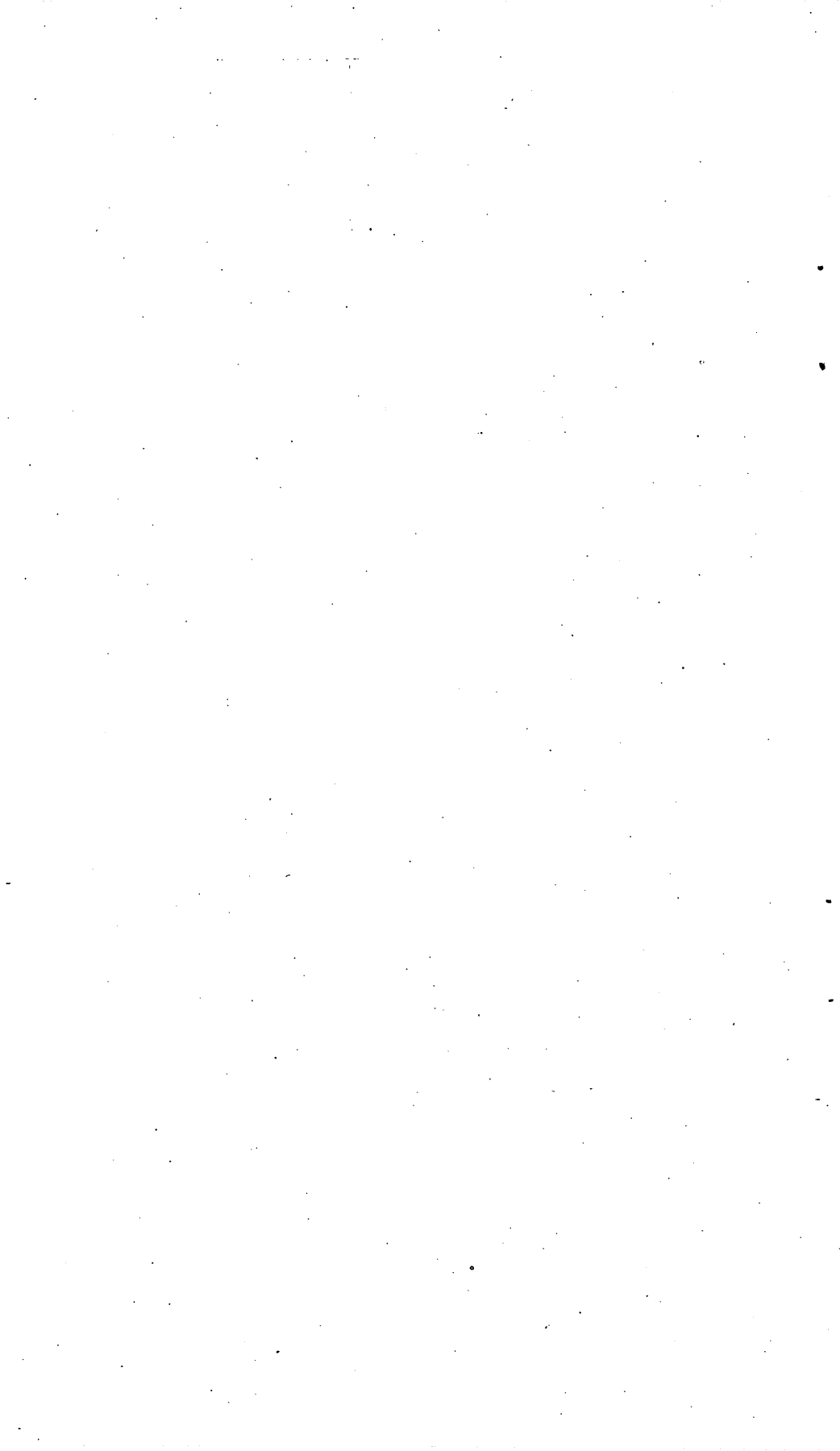
Hon. CHARLES D. WALCOTT,
Director United States Geological Survey.



INTRODUCTION.

This index comprises the indexes contained in Bulletins Nos. 130, 135, 146, 149, 156, 162, and 172, together with the index to the literature for the year 1900. It is planned to accompany Bulletin No. 188, in which will be found the bibliographic entries to which all the authors' names and the numbers in this publication refer.

The subject headings, their subdivision and arrangement, are shown in the following "Classified key to index." They comprise geographic, geologic, mineralogic, paleontologic, and petrologic subdivisions. Under "Economic geology" is given a list of the useful minerals and ores described in publications examined; under "Mineralogy," a list of minerals described in such publications; under "Paleontology," a list of genera and species of fossils therein described; and under "Petrology," a list of rocks described; reference being made in each case, by author's name and number of entry in the Bibliography, to the paper in which the fossil, mineral, or rock is described.



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^aChemical analyses given in Bull. No. 168, U. S. Geological Survey, "Analyses of rocks from the laboratory of the United States Geological Survey, 1880-1899," by F. W. Clarke, are not contained in this list.

^bThis list of chemical analyses is for the years 1897 to 1900, inclusive.

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 Gold, Dunn, 1577, 1578.
 Gold, Eldridge, 1624, 1625, 1629, 1632.
 Gold, Eldridge and Muldrow, 1681.
 Gold, Ellis, 1652a.
 Gold, Emmons, 1686, 1698, 1699, 1713.
 Gold, Emmons and Tower, 1711.
 Gold, Endlich, 1720, 1721.
 Gold, Fairbanks, 1741, 1743, 1747, 1751, 1752, 1755, 1760, 1762.
 Gold, Faribault, 1790.
 Gold, Fleck, 1825.
 Gold, Fowler, 1880, 1881, 1882.
 Gold, Frazer, 1887.
 Gold, Freeman, 1894, 1895.
 Gold, Furman, 1932.
 Gold, Garside, 1947.
 Gold, Gemmell, 1963.
 Gold, Gilpin, 2029.
 Gold, Gratacap, 2151.
 Gold, Guentherodt, 2203.
 Gold, Gwillim, 2226, 2228, 2229.
 Gold, Gwillim and Johnson, 2227.
 Gold, Halse, 2278, 2279.
 Gold, Hardman, 2286, 2288.
 Gold, Hastings, 2327, 2328, 2329.
 Gold, Hazelhurst, 2439.
 Gold, Heilprin, 2447.
 Gold, Hershey, 2488, 2491, 2493, 2494.
 Gold, Heydon, 2503, 2504.
 Gold, Hill, 2570.
 Gold, Hill, W. H., 2568, 2569.
 Gold, Hille, 2571.
 Gold, Hills, 2595, 2597.
 Gold, Hoover, 2729, 2730.
 Gold, Iddings and Weed, 2831.
 Gold, Joseph, 2944.
 Gold, Kemp, 3012.
 Gold, Kirby, 3184.
 Gold, Kraatz, 3268.
 Gold, Ladshaw, 3304.
 Gold, Lakes, 3305, 3307, 3308, 3309, 3310, 3313, 3314, 3316, 3317, 3320, 3322, 3326, 3331, 3337, 3340, 3341, 3342.
 Gold, Lammers, 3378.
 Gold, Landcs, 3380.

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Gold, Lavagnino, 3405.
 Gold, Ledoux, 3436.
 Gold, Lee, 3437.
 Gold, Lindgren, 3516, 3519, 3522, 3523, 3526, 3529, 3531, 3533, 3534, 3539, 3540, 3543, 3547, 3548.
 Gold, Lindgren and Turner, 3525, 3527, 3528.
 Gold, Loring, 3575.
 Gold, Ludloff, 3592.
 Gold, Máguire, 3631, 3632, 3633.
 Gold, McCallie, 3826.
 Gold, McCarn, 3831, 3832.
 Gold, McConnell, 3839.
 Gold, McInnes, 3882.
 Gold, McKellar, 3886.
 Gold, Mendenhall, 3903, 3905, 3907.
 Gold, Merrill, 3956.
 Gold, Merritt, 3974.
 Gold, Miller, 3989.
 Gold, Moncton, 4021, 4022.
 Gold, Moore, 4026.
 Gold, Nason, 4067, 4068, 4070, 4071.
 Gold, Neill, 4072.
 Gold, Nevius, 4079.
 Gold, Nitze, 4111.
 Gold, Nitze and Hanna, 4108.
 Gold, Nitze and Wilkens, 4109, 4112.
 Gold, Nordenskjöld, 4113.
 Gold, Nye, 4126.
 Gold, Ogilvie, 4127.
 Gold, Peale, 4267.
 Gold, Pearce, 4271, 4272, 4278, 4278a.
 Gold, Penrose, 4345, 4346, 4347.
 Gold, Peters and Brooks, 4361.
 Gold, Petre, 4362.
 Gold, Phillips, 4367, 4373, 4374, 4375.
 Gold, Porter, 4418, 4419.
 Gold, Posepny, 4421.
 Gold, Prest, 4453.
 Gold, Preston, 4456.
 Gold, Purington, 4511, 4512, 4513.
 Gold, Quille, 4517, 4518, 4519.
 Gold, Ransome, 4543.
 Gold, Rickard, 4590, 4597, 4599, 4602, 4603.
 Gold, Rohn, 4660.
 Gold, Russell, 4721.
 Gold, Schrader, 4830, 4833, 4834, 4835.
 Gold, Schrader and Brooks, 4836.
 Gold, Scupham, 4901.
 Gold, Selwyn, 4909.
 Gold, Sisley, 4988.
 Gold, Skewes, 4990, 4992.
 Gold, Smith, 5012, 5016, 5019, 5020, 5021, 5023.
 Gold, Snow, 5107, 5109.
 Gold, Spaulding, 5111.
 Gold, Spurr, 5171, 5173, 5174, 5176, 5184.
 Gold, Spurr and Post, 5178.
 Gold, Stone, 5257, 5259.
 Gold, Storms, 5260, 5264, 5265, 5266, 5267, 5268.
 Gold, Streeruwitz, 5272.
 Gold, Stretch, 5277.
 Gold, Stuart, 5279.
 Gold, Sword, 5282a.
 Gold, Tatham, 5334.
 Gold, Todd, 5407.
 Gold, Tower, 5446.

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Gold, Tower and Smith, 5445.
 Gold, Turner, 5451, 5454, 5459, 5465, 5467, 5471.
 Gold, Turner and Ransome, 5470.
 Gold, Underhill, 5545.
 Gold, Van Diest, 5676.
 Gold, Wadsworth, 5768.
 Gold, Waring, 5862.
 Gold, Washburn, 5869.
 Gold, Watts, 5903.
 Gold, Weber, 5914.
 Gold, Weed, 5932, 5934, 5945, 5946, 5953.
 Gold, Weed and Pirsson, 5935, 5939, 5942.
 Gold, Wells, 6012, 6018.
 Gold, Willmot, 6261.
 Gold, Wiltsee, 6272.
 Gold, Winchell, 6286.
 Gold, Winchell and Grant, 6289.
 Gold, Winchell, H. V., and Grant, 6285.
 Gold, Winslow, 6400.
 Gold, Woodman, 6428.
 Gold, Wurtz, 6528.
 Gold, Wynkoop, 6531.
 Gold, Yale, 6532.
 Gold, Yeates, McCallie, and King, 6435.
 Grahamite, White, 6062.
 Graphite, Blue, 499.
 Graphite, Todd, 5407.
 Grindstones, Kindle, 3167.
 Grindstones, King, 3178.
 Gypsum, Blake, 470.
 Gypsum, Crawford, 1144, 1145.
 Gypsum, Gilbert, 2005.
 Gypsum, Grimsley, 2186, 2187, 2190, 2192.
 Gypsum, Grimsley and Bailey, 2192a.
 Gypsum, Haworth, 2376.
 Gypsum, Hubbard, 2797.
 Gypsum, Keyes, 3050, 3073, 3107.
 Gypsum, Lane, 3388, 3400.
 Gypsum, Lee, 3437, 3439.
 Gypsum, Luther, 3602.
 Gypsum, Rogers, 4655.
 Gypsum, Watts, 5901.
 Gypsum rock, Bailey and Whitten, 154.
 Hübnerite, Blake, 481.
 Infusorial earth, King, 3178.
 Iron, Adams, 12, 14, 18.
 Iron, Allen, 77.
 Iron, Bachellery, 140.
 Iron, Bailey, L. W., 156.
 Iron, Bailey, 161.
 Iron, Birkinbine, 444, 445, 446.
 Iron, Blue, 499.
 Iron, Brackenburg, 522.
 Iron, Brewer, 554, 564, 589, 591.
 Iron, Cabrera, 673.
 Iron, Calvin, 696.
 Iron, Campbell, 729.
 Iron, Castleman, 777.
 Iron, Catlett, 781, 782.
 Iron, Chambers, 861.
 Iron, Chance, 862.
 Iron, Clements and Smyth, 1015.
 Iron, Coleman, 1052.
 Iron, Coleman and Willmot, 1047.
 Iron, Crawford, 1144, 1145.

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Iron, Cushing, 1248.
 Iron, Darton, 1308, 1315, 1335.
 Iron, Darton and Taff, 1318.
 Iron, Dawson, 1422.
 Iron, Dewar, 1488.
 Iron, Diller, 1503.
 Iron, Emmons, 1698, 1699.
 Iron, Fletcher, 1827.
 Iron, Gilpin, 2027.
 Iron, Grant, 2118, 2123.
 Iron, Hayes, 2410, 2411, 2412, 2413, 2417, 2418, 2419, 2420, 2422.
 Iron, Hill, 2541, 2538.
 Iron, Hoffman, 2657.
 Iron, Hopkins, 2752, 2753.
 Iron, Hulst, 2805.
 Iron, Irving and Van Hise, 2869.
 Iron, Jenkins, 2905.
 Iron, Jennings, 2908.
 Iron, Johnson, 2912, 2913, 2914.
 Iron, Jopling, 2938, 2939.
 Iron, Keith, 2958, 2963.
 Iron, Kemp, 2981, 2987, 3002-3004, 3013.
 Iron, Kennedy, 3027, 3028, 3033, 3034.
 Iron, Keyes, 3088.
 Iron, Kimball, 3162, 3164.
 Iron, Lakes, 3311.
 Iron, Landis, 3381.
 Iron, Lee, 3437.
 Iron, Lesley, 3466, 3467.
 Iron, Lindgren, 3522.
 Iron, Lindgren and Turner, 3528.
 Iron, McCalley, 3815, 3816, 3818, 3819.
 Iron, McCallie, 3828, 3829.
 Iron, McInnes, 3882.
 Iron, Moxham, 4046.
 Iron, Nason, 4057, 4055, 4066.
 Iron, Nitze, 4104, 4110.
 Iron, Parker, 4251.
 Iron, Pechin, 4286, 4288.
 Iron, Penrose, 4340, 4341, 4344, 4346.
 Iron, Phillips, 4376.
 Iron, Poole, 4415.
 Iron, Pope, 4417.
 Iron, Posepny, 4427.
 Iron, Raymond, 4551.
 Iron, Ries, 4622.
 Iron, Robertson, 4646.
 Iron, Rominger, 4664.
 Iron, Schmitz, 4823.
 Iron, Shepard, 4946.
 Iron, Smyth, 5080, 5102.
 Iron, Smyth, C. H., 5073.
 Iron, Smyth, H. L., 5100.
 Iron, Smyth and Finlay, 5101.
 Iron, Snow, 5108.
 Iron, Spencer, 5124.
 Iron, Spurr, 5165, 5166.
 Iron, Stoek, 871.
 Iron, Streeruwitz, 5272.
 Iron, Thompson, 5377.
 Iron, Todd, 5407.
 Iron, Turner, 5451.
 Iron, Van Hise, 5679, 5681.
 Iron, Van Hise and Bayley, 5696, 5704, 5713.

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Iron, Wadsworth, 5768.
 Iron, Watts, 5903.
 Iron, Winchell, H. V., 6278, 6280.
 Iron, Winchell, N. H., 6287, 6290, 6292, 6295, 6296, 6297, 6354, 6355.
 Iron, Winslow, Haworth, and Nason, 6397.
 Iron, Wolff, 6406.
 Kaolin, Holmes, 2726.
 Kaolin, Hopkins, 2747, 2748.
 Kaolin, Nevius, 4074.
 Lead, Bain, 207.
 Lead, Beadle, 326.
 Lead, Blake, 454, 458, 461.
 Lead, Boyd, 514.
 Lead, Branner, 552.
 Lead, Brewer, 564, 576.
 Lead, Calvin, 696.
 Lead, Calvin and Bain, 720.
 Lead, Crawford, 1144, 1145.
 Lead, Dewar, 1488.
 Lead, Emmons, 1699.
 Lead, Fechet, 1804.
 Lead, Gilpin, 2029.
 Lead, Haworth, 2376.
 Lead, Hay, 2393.
 Lead, Hayes, 2418.
 Lead, Hedburg, 2443.
 Lead, Herrick, 2457, 2459.
 Lead, Jenney, 2906.
 Lead, Kendall, 3024.
 Lead, Keyes, 3088.
 Lead, Lakes, 3333.
 Lead, Lee, 3437.
 Lead, Leonard, 3458, 3459, 3460, 3461, 3462.
 Lead, Lesley, 3466.
 Lead, Nason, 4062.
 Lead, Penrose, 4346.
 Lead, Posepny, 4421.
 Lead, Robertson, 4647.
 Lead, Roeth, 4650.
 Lead, Shepard, 4946.
 Lead, Simonds and Hopkins, 4966.
 Lead, Todd, 5407.
 Lead, Warren, 5868.
 Lead, Winslow, 6385, 6392, 6395.
 Lignite, Kennedy, 3027, 3028.
 Lime, Bain, 172.
 Lime, Calvin, 696, 699.
 Lime, Clark, O'Harra, Rowe, and Ries, 920.
 Lime, Keith, 2960.
 Lime, Keyes, 3074, 3075.
 Lime, Marbut, 3646, 3647.
 Lime, Merrill, 3930.
 Lime, Norton, 4118.
 Lime, Shepard, 4946.
 Limestone, Day, 1466.
 Limestone, Dresser, 1541.
 Limestone, Ries, 4634.
 Loess, Beyer, 435.
 Loess, Chamberlin, 830.
 Loess, Shimek, 4955.
 Loess, Udden, 5510.
 Magnesite, Crawford, 1144, 1145.
 Magnetite, Nitze, 4101, 4102, 4103.
 Magnetite, Pechin, 4287.

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Manganese, Brewer, 568.
 Manganese, Cabrera, 673.
 Manganese, Catlett, 778, 782.
 Manganese, Brumell, 640.
 Manganese, Crawford, 1144, 1145.
 Manganese, Emmons, 1699.
 Manganese, Hall, 2241.
 Manganese, Halse, 2277.
 Manganese, Jennison, 2909.
 Manganese, Keyes, 3088.
 Manganese, Lakes, 3311.
 Manganese, McCalley, 3818.
 Manganese, Penrose, 4342, 4343, 4344, 4346.
 Manganese, Spencer, 5124.
 Manganese, Todd, 5407.
 Manganese, Watts, 5894, 5903.
 Manganese, Weeks, 5964, 5966.
 Manganese, Winchell, N. H., 6303.
 Marble, Darton, 1308.
 Marble, Keith, 2960, 2962, 2963.
 Marble, McCallie, 3823.
 Marble, McCalley, 3818.
 Marble, Smyth, C. H., jr., 5080.
 Marcasite, Blake, 457.
 Marl, Barkey, 425e.
 Marl, Clark, 906.
 Marl, Darton, 1314.
 Marl, Davis, 1343.
 Mica, Blue, 499.
 Mica, Fuller, 1905.
 Mica, Henderson, 2453.
 Mica, Holmes, 2722.
 Mica, Todd, 5407.
 Mineral paint, Bain, 171.
 Mineral paint, Calvin, 696.
 Mineral water, Crawford, 1145.
 Mineral water, McCalley, 3815.
 Mineral water, Merrill, 3930.
 Mineral water, Peale, 4267.
 Mineral waters, Lane, 3395.
 Monazite, Metzger, 3978.
 Monazite, Nitze, 4105, 4106, 4111a.
 Natural gas, Bailey, E. H. S., 153.
 Natural gas, Bain, 193.
 Natural gas, Bishop, 448, 449.
 Natural gas, Blue, 499.
 Natural gas, Boyd, 513.
 Natural gas, Brumell, 641, 643.
 Natural gas, Coste, 1106.
 Natural gas, Crawford, 1144, 1145.
 Natural gas, Cummins, 1222.
 Natural gas, Gorby, 2057, 2058, 1059.
 Natural gas, Haworth, 2356, 2362, 2376.
 Natural gas, Jordan, 2942, 2943.
 Natural gas, Keyes, 3049.
 Natural gas, Lakes, 3347.
 Natural gas, Lane, 3388.
 Natural gas, Leach, 3424, 3425.
 Natural gas, Leonard, 3463, 3464.
 Natural gas, Lincoln, 3512.
 Natural gas, Lindgren and Turner, 3527.
 Natural gas, McCalley, 3815.
 Natural gas, McGee, 3845.
 Natural gas, Orton, 4160, 4165, 4168, 4172.
 Natural gas, Phillips, 4365.

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Natural gas, Phinney, 4377.
 Natural gas, Sadtler, 4725.
 Natural gas, Sherzer, 4954.
 Natural gas, Strieby, 5278.
 Natural gas, Topley, 5442.
 Natural gas, Watts, 5908.
 Natural gas, Weeks, 5967.
 Natural gas, White, 6061.
 Natural gas, Witter, 6401.
 Nickel, Austin, 134.
 Nickel, Austin, 131.
 Nickel, Argall, 119.
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 Nickel, Barlow, 242.
 Nickel, Bell, 400.
 Nickel, Blue, 499.
 Nickel, Bush, 669.
 Nickel, Charleton, 873, 874.
 Nickel, Emmens, 1684.
 Nickel, Emmons, 1699.
 Nickel, Hoffman, 2657.
 Nickel, Kemp, 2985.
 Nickel, Keyes, 3088.
 Nickel, McCharles, 3833, 3834.
 Nickel, Merritt, 3973.
 Nickel, Mickle, 3979.
 Nickel, Miller, 4007.
 Nickel, Olcott, 4135.
 Nickel, Packard, 4232.
 Nickel, Todd, 5407.
 Nickel, Turner, 5473.
 Nickel, Walker, 5823.
 Ocher, Couper, 1107.
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 Oil, Orton, 4170, 4172.
 Oil, Palache, 4255.
 Oil, Sherzer, 4954.
 Oil, Watts, 5910, 5911, 5912.
 Onyx, De Kalb, 1480.
 Onyx, Gorby, 2060.
 Onyx, Merrill, 3958.
 Onyx, Merrill, G. P., 3944.
 Onyx marble, De Kalb, 1481.
 Ozokerite, Ohly, 4133.
 Ozokerite, Gosling, 2071.
 Peat, Shaler, 4924.
 Petroleum, Bailey, E. H. S., 153.
 Petroleum, Benedict, 414.
 Petroleum, Bishop, 449.
 Petroleum, Blatchley, 490, 494.
 Petroleum, Blue, 499.
 Petroleum, Brumell, 641, 642, 643.
 Petroleum, Cooper, 1066, 1067, 1068.
 Petroleum, Crawford, 1144, 1145.
 Petroleum, Day, 1460.
 Petroleum, Dumble, 1570, 1571.
 Petroleum, Eldridge, 1620, 1624.
 Petroleum, Fairbanks, 1758, 1771.
 Petroleum, Forstall, 1875.
 Petroleum, Gorby, 2057, 2059.
 Petroleum, Haworth, 2356, 2362, 2376.
 Petroleum, Hubbard, 2797.
 Petroleum, Irving, 2868.
 Petroleum, Keith, 2965.
 Petroleum, Keyes, 3049.

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Petroleum, Knight, 3203, 3205, 3206.
 Petroleum, Lane, 3388.
 Petroleum, Lakes, 3343.
 Petroleum, Mabery, 3620.
 Petroleum, McCalley, 3815.
 Petroleum, Merrill, 3930.
 Petroleum, Miller, 4004.
 Petroleum, Oliphant, 4136.
 Petroleum, Orton, 4160, 4163, 4172.
 Petroleum, Peckham, 4290, 4292.
 Petroleum, Phillips, 4365, 4366, 4376a.
 Petroleum, Ross, 4666.
 Petroleum, Sadtler, 4725, 4726.
 Petroleum, Schmitz, 4826.
 Petroleum, Slosson, 5996.
 Petroleum, Topley, 5442.
 Petroleum, Van Ingen, 5714.
 Petroleum, Watts, 5908, 5909.
 Petroleum, White, 6055, 6061.
 Phosphate, Branner, 535, 540.
 Phosphate, Brown, 630, 631.
 Phosphate, Carnot, 754.
 Phosphate, Codington, 1023.
 Phosphate, Cox, 1113.
 Phosphate, Davidson, 1340.
 Phosphate, Eldridge, 1621.
 Phosphate, Hayes, 2416, 2423, 2424, 2430.
 Phosphate, Johnson, 2918.
 Phosphate, Killebrew, 3159, 3160.
 Phosphate, McCallie, 3824.
 Phosphate, Meadows and Brown, 3894.
 Phosphate, Memminger, 3900.
 Phosphate, Miller, 3985.
 Phosphate, Phillips, 4370, 4371.
 Phosphate, Pratt, 4452.
 Phosphate, Reese, 4565.
 Phosphate, Safford, 4731, 4732.
 Phosphate, Small, 4999.
 Phosphate, Smith, 5003, 5013.
 Phosphate, Wells, 6008.
 Phosphate, Wills, 6262.
 Phosphate, Wyatt, 6529.
 Platinum, Crawford, 1144.
 Platinum, Day, 1461, 1464.
 Platinum, Donald, 1524.
 Platinum, Hoffman, 2657.
 Platinum, Streeruwitz, 5272.
 Pumice, King, 3178.
 Pyrophyllite, Pratt, 4451a.
 Pyrrhotite, Kemp, 2985.
 Pyrrhotite, Nicol, 4098.
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 Quicksilver, Colquhoun, 1056.
 Quicksilver, Crawford, 1144, 1145.
 Quicksilver, Emmons, 1699.
 Quicksilver, Fairbanks, 1747.
 Quicksilver, Halse, 2281.
 Quicksilver, Lindgren and Turner, 2528.
 Quicksilver, Rundall, 4693.
 Quicksilver, Turner, 5489.
 Quicksilver, Watts, 5894, 5896, 5902, 5905, 5907.
 Road material, Bain, 192.
 Road material, Benedict, 416.
 Road material, Calvin, 714.

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Road material, Clark, O'Harra, Rowe, and Ries, 920.
 Road material, Cushing, 1248.
 Road material, Leonard, 3464.
 Road material, Lincoln, 3512.
 Road material, Marbut, 3646.
 Road material, Morris, 4045.
 Road material, Ries, 4622.
 Road material, Salisbury and Knapp, 4773.
 Road material, Shepard, 4946.
 Road material, Tilton and Bain, 5396.
 Road material, Whittle, 6124.
 Road materials, Bain, 171, 172, 179.
 Road materials, Beyer, 438.
 Road materials, Calvin, 699.
 Road materials, Hayes, 2417.
 Road materials, Holmes and Cain, 2718a.
 Road materials, Lane, 3400.
 Road materials, Lonsdale, 3567.
 Road materials, McCalley, 3815, 3818.
 Road materials, Merrill, 3934.
 Road materials, Shaler, 4922, 4923.
 Salt, Bishop, 447.
 Salt, Crawford, 1144.
 Salt, Haworth, 2373.
 Salt, Hay, 2393.
 Salt, Hubbard, 2797.
 Salt, Kennedy, 3027.
 Salt, Lane, 3400.
 Salt, Lucas, 3580, 3581.
 Salt, Luther, 3600, 3602, 3603.
 Salt, Preston, 4464.
 Salt, Romeyn, 4662.
 Salt, Veatch, 5746.
 Salt, Ward, 5861.
 Sandstone, Day, 1466.
 Sapphire, Weed, 5946.
 Shale, Lane, 3400.
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 Siliceous dolomite, McCalley, 3818.
 Silver, Andersen, 111.
 Silver, Austin, 133.
 Silver, Barlow, 253.
 Silver, Barrell, 258, 259.
 Silver, Beadle, 326.
 Silver, Bell, 412.
 Silver, Blake, 483a.
 Silver, Blandy, 487.
 Silver, Blauvelt, 497.
 Silver, Brewer, 576, 577, 587.
 Silver, Brock, 611.
 Silver, Brown, 634.
 Silver, Buelna, 661.
 Silver, Burdsal, 663.
 Silver, Carlyle, 750, 751, 752, 753.
 Silver, Clark, 890.
 Silver, Clark, E., 889.
 Silver, Comstock, 1062.
 Silver, Corning, 1105.
 Silver, Crawford, 1144, 1145.
 Silver, Dewar, 1488.
 Silver, Diller, 1513.
 Silver, Draper, 1540.
 Silver, Eldridge, 1625.
 Silver, Emmons, 1686, 1698, 1699, 1705, 1706, 1708, 1712.

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Silver, Emmons and Tower, 1711.
 Silver, Fairbanks, 1755, 1762.
 Silver, Farish, 1791.
 Silver, Fechet, 1804.
 Silver, Fenner, 1810.
 Silver, Fowler, 1881, 1882.
 Silver, Furman, 1932.
 Silver, Grant, 2135.
 Silver, Gratacap, 2151.
 Silver, Gwillim, 2226, 2228.
 Silver, Gwillim and Johnson, 2227.
 Silver, Halse, 2280.
 Silver, Hardman, 2286, 2288.
 Silver, Herrick, 2457.
 Silver, Hoffman, 2657.
 Silver, Joseph, 2944.
 Silver, Kendall, 3024.
 Silver, Keyes, 3088.
 Silver, Kirby, 3186.
 Silver, Kunz, 3299.
 Silver, Lakes, 3305, 3310, 3320, 3331, 3333, 3338.
 Silver, Lammers, 3378.
 Silver, Lavagnino, 3405.
 Silver, Lee, 3437.
 Silver, Lindgren, 3523, 3548.
 Silver, McCormick, 3841.
 Silver, MacMechen, 3629.
 Silver, McKellar, 3884.
 Silver, Nason, 4071.
 Silver, Ordonez, 4149.
 Silver, Penrose, 4346.
 Silver, Petre, 4362.
 Silver, Porter, 4418, 4419.
 Silver, Posepny, 4421.
 Silver, Purington, 4511, 4512, 4513.
 Silver, Rickard, 4590, 4602.
 Silver, Spurr, 5171, 5175.
 Silver, Storms, 5260, 5261.
 Silver, Streeruwitz, 5272.
 Silver, Todd, 5407.
 Silver, Tower, 5446.
 Silver, Tower and Smith, 5445.
 Silver, Van Diest, 5676.
 Silver, Warren, 5868.
 Silver, Weed, 5934, 5945, 5946, 5953.
 Silver, Weed and Pirsson, 5935, 5939.
 Silver, Wiltsee, 6274.
 Silver, Wynkoop, 6531.
 Slate, Beyer, 433.
 Slate, Day, 1466.
 Slate, Merriman, 3970.
 Soda, Blake, 477.
 Soda, Chatard, 877a.
 Soda, Crawford, 1144.
 Soda, Knapp, 3197.
 Soda, Knight, 3210.
 Sodium, Packard, 4233.
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 Soil, Bain, 172.
 Soil, Beyer, 432.
 Soil, Calvin, 699.
 Soil, Campbell, 729.
 Soil, Darton, 1315.
 Soil, Darton and Tuff, 1318.
 Soil, Haworth, 2364.

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Soil, Hay, 2397.
 Soil, Hayes, 2417, 2418, 2419, 2420, 2422.
 Soil, Lindgren and Turner, 3528.
 Soil, Lonsdale, 3567.
 Sulphur, Fulton, 1920.
 Sulphur, Smith, 5014.
 Sulphur, Watts, 5901.
 Talc, Luquer, 3594a.
 Talc, Nevius, 4075, 4076.
 Talc, Pratt, 4451a.
 Talc, Sahlen, 4734.
 Talc, Smyth, 5080, 5090, 5092.
 Tin, Claypole, 981.
 Tin, Emmons, 1699.
 Tin, Fairbanks, 1765.
 Tin, Halse, 2282.
 Tin, Ingalls, 2862.
 Tin, Kempton, 3023.
 Tin, Rolker, 4661.
 Tin, Todd, 5407.
 Tin, Ulke, 5523, 5530.
 Titaniferous magnetite, Kemp, 2993, 3008.
 Tripoli, Quimby, 4520.
 Tungsten, Blake, 483a.
 Uintaite, Eldridge, 1626, 1627.
 Uranium, Hillebrand and Ransome, 2587.
 Vanadium, Hillebrand and Ransome, 2587.
 Water supply, Bain, 171, 172, 179, 180, 205.
 Water supply, Barbour, 237.
 Water supply, Branner, 552.
 Water supply, Calvin, 699.
 Water supply, Campbell and Leverett, 742.
 Water supply, Darton, 1328.
 Water supply, Gordon, 2069.
 Water supply, Hay, R., 2394.
 Water supply, Hill and Vaughan, 2556.
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 Ashland limestone, Williams, 6190.
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 Atane series, White and Schuchert, 6048.
 Atchison shale, Keyes, 3142, 3148.
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 Athabasca sandstone, Tyrrell, 5499.
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 Basal sandstone, Norton, 4122.
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 Becket gneiss, Emerson, 1676, 1677.
 Becraft limestone, Clarke, 971.
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 Belchertown tonalite, Emerson, 1676.
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 Bijiki schist, Van Hise and Bayley, 5704.
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 Black River, Marcou, 3663.
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 Black River limestone, Cumings, 1220.
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 Blackrock diabase, Emerson, 1676.
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 Bluebird aplite, Weed, 5948.
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 Blue Hills shale, Logan, 3556.
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 Boggy shale, Taff, 5290.
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 Bogue Island formation, Hill, 2549.
 Bohemia conglomerate, Hubbard, 2798.
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 Buff Bay beds, Hill, 2564.
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 Buff limestone, Winchell and Ulrich, 6337.
 Bujio formation, Hill, 2557.
 Butte granite, Weed, 5948.
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 Burlingame shale, Beede, 390.
 Burlington formation, Marbut, 3650.
 Burlington limestone, Keyes and Rowley, 3119.
 Burlington limestone, Lower, Shepard, 4946.
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 Calaveras formation, Lindgren, 3534, 3547.
 Calaveras formation, Ransome, 4543.
 Calaveras formation, Turner, 5467, 5471.
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 Calciferous, Ells, 1660.
 Calciferous, Marcou, 3663.
 Calciferous sand rock, Cumings, 1220.
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 Callaway limestone, Keyes, 3090, 3135.
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 Camerella bed, Sardeson, 4799.
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 Cape Cod series, Shaler, 4933, 4934.
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 Cayugan, Clarke, 971.
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 Chazy limestone, Clarke, 971.
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 Cherokee shales, Haworth, 2375.
 Cherokee shales, Keyes, 3113, 3139, 3148.
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 Coldwater shales, Lane, 3394, 3400.
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 Connecticut River sandstone, Emerson, 1677.
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 Conway schist, Emerson, 1676, 1677.
 Cook Inlet gravels, Spurr, 5184.
 Coosa shale, McCalley, 3818.
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 Copper Mountain greenstone, Schrader, 4830, 4833.
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 Corbin conglomerate lentil, Campbell, 736, 737.
 Corniferous, Blatchley and Ashley, 496.
 Corniferous limestone, Bishop, 448.
 Corniferous limestone, Luther, 3602.
 Cottonwood, Beede, 398.
 Cottonwood limestone, Keyes, 3148.
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 Cranston beds, Shaler, Woodworth, and Foerste, 4940.
 Crosswicks clays, Clark, 910, 915.
 Crystal sandstone, Keyes, 3090.
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 Del Rio clay, Vaughan, 5738, 5739.
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 Denver formation, Davis, 1363, 1389.
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 Des Moines, Leonard, 3464.
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 Des Moines shale, Tilton, 5395.
 Des Moines series, Keyes, 3090, 3113, 3122, 3134.
 Des Moines series, Shepard, 4946.
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 Des Moines stage, Calvin, 711.
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 Devonian, Clarke, 971.
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 Dielasma beds, Norton, 4124.
 Dighton conglomerate group, Shaler, Woodworth, and Foerste, 4940.
 Diplograptus bed, Sardeson, 4799.
 Dismal formation, Campbell, 735.
 Dog Creek formation, Cragin, 1128.
 Dolores formation, Cross, 1201.
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 Dotson sandstone, Campbell, 735.
 Douty gravel, Willis, 6209.
 Dover shale and sandstone, Beede, 390.
 Dresbach sandstone, Berkey, 427.
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 Dry Creek shale, Weed, 5953.
 Dundee limestone, Lane, 3394.
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 Eagle Pass formation, Hill and Vaughan, 2556.
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 Earlham limestone, Bain, 198.
 Earleton limestone, Haworth, 2375.
 East Lee limestone, Emerson, 1678.
 Eastern sandstone, Hubbard, 2798.
 Edwards formation, Hill and Vaughan, 2562.
 Edwards limestone, Hill and Vaughan, 2556.
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 Egremont limestone, Hobbs, 2646.
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 Elgin sandstone, Haworth, 2375.
 Elk Falls limestone, Haworth, 2375.
 Elk Mountain porphyry, Emmons, 1712.
 Elkgarden formation, Clark, 911.
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 Eureka limestone, Haworth, 2375.
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 Fish House black clay, Woolman, 6474.
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 Flanagan chert, Campbell, 736.
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 Florencia formation, Hershey, 2477.
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 Polley limestone, Keyes, 3135.
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 Franconia sandstone, Berkeley, 427, 429.
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 Galena limestone, Blatchley and Ashley, 496.
 Galena limestone, Calvin and Bain, 720.
 Galena series, Sardeson, 4806.
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 Gallatin limestone, Hague, 2236.
 Garnett limestone, Haworth, 2375.
 Garrard sandstone, Campbell, 736.
 Gary moraine, Todd, 5430.
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 Genesee shale, Blatchley and Ashley, 496.
 Genesee shale, Clarke, 971.
 Genesee shale, Clarke and Schuchert, 965.
 Genesee shale, Girty, 2035.
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 Genesee shale, Lincoln, 3512.
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 Genesee slate, Luther, 3602, 3603.
 George River limestone series, Fletcher, 1828.
 Georgetown limestone, Vaughan, 5739.
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 Georgia slates, Clarke, 971.
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 Gering formation, Darton, 1328.
 Geronimo series, Bain, 212.
 Giles formation, Campbell, 735.
 Gillespie formation, Hill and Vaughan, 2556.
 Girardeau limestone, Keyes, 3090.
 Gladeville sandstone, Campbell, 740.
 Glass Mountain formation, Cragin, 1128.
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 Goniatite limestone, Luther, 3602.
 Goodrich quartzite, Smyth, 5103.
 Goodrich quartzite, Van Hise and Bayley, 5704.
 Goose Pond limestone, Emerson, 1678.
 Goshen schist, Emerson, 1676, 1677.
 Gower stage, Norton, 4124.
 Grainger formation, Campbell, 740.
 Granbury bed, Cragin, 1130.
 Granby tuff, Emerson, 1676, 1677.
 Grand Canyon series, Walcott, 5815.
 Grand Gulf, Harris and Veatch, 2318.
 Grand Portage graywacke, Winchell, 6358.
 Grand Rapids sandstone, Tyrrell, 5501.
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 Graneros shale, Gilbert, 2005.
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 Grenville series, Barlow, 243.
 Grenville series, Cushing, 1248.
 Grenville series, Dawson, 1426.
 Greyson shale, Walcott, 5815.
 Greyson shale, Weed, 5953.
 Groveland formation, Clements and Smyth, 1017.
 Groveland formation, Van Hise, 5709.
 Guallava beds, Hill, 2557.
 Guelph dolomite, Clarke, 971.
 Guelph dolomite, Clarke and Schuchert, 965.
 Guertie sand, Taff, 5290.
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 Hampden diabase, Emerson, 1676.
 Hampshire formation, Clark, 912.
 Hampshire formation, Darton, 1335.
 Hampshire formation, O'Harra, 4129.
 Hancock limestone, Campbell, 740.
 Hannibal shale, Keyes and Rowley, 3058.
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 Hardistown quartzite, Wolf and Brooks, 6409, 6415.
 Harper's formation, Clark, 912.
 Harrison diorite, Merrill, 3936.
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 Hartselle sandstone, McCalley, 3818.
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 Helena limestone, Walcott, 5815.
 Hemlock formation, Clements, 1016.
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 Henrietta limestone, Keyes, 3113, 3139, 3148.
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 Hermosa formation, Cross and Spencer, 1206.
 Highbridge limestone, Campbell, 736.
 Highwood syenite, Weed, 5945.
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 Hinsdale gneiss and limestone, Emerson, 1677, 1678.
 Hinton formation, Campbell, 735.
 Holikunk series, Spurr, 5184.
 Holyoke diabase, Emerson, 1676.
 Honaker limestone, Campbell, 740.
 Hop Brook limestone, Emerson, 1678.
 Honaker limestone, Campbell, 735.
 Hoosac schist, Emerson, 1676, 1677, 1678.
 Hopewell formation, Ami, 110.
 Howard limestone, Haworth, 2375.
 Hudson River, Bell, 406.
 Hudson River, Blatchley and Ashley, 496.
 Hudson River, Marcou, 3663.
 Hudson River, Ries, 4622.
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 Hudson River shale, Cummings, 1220.
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 Humbug series, Tower and Smith, 5445.
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 Huronian series, Van Hise, 5709.
 Idaho formation, Lindgren, 3548.
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 Illinoian till, Leverett, 3493, 3494.
 Illinoian till, Udden, 5517.
 Illinois stage, Calvin, 708.
 Independence limestone, Haworth, 2375.
 Independence shale, Calvin, 715.
 Independence shale, Norton, 4124.
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 Iowan drift, Calvin, 711, 712, 718.
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 Iowan drift, Leverett, 3495.
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 Irvine formation, Campbell, 736.
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 Itasca moraine, Todd, 5435.
 Ithaca beds, Clarke and Schuchert, 965.
 Ithaca formation, Prosser, 4497.
 Ithaca group, Clarke, 958.
 Jackson, Harris and Veatch, 2318.
 Jackson series, Lane, 3394.
 Jefferson limestone, Hague, 2236.
 Jefferson limestone, Weed, 5953.
 Jennings formation, Clark, 912.
 Jennings formation, Darton, 1335.
 Jennings formation, O'Harra, 4129.
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 Jerusalem, Hill, 2564.
 Joachim limestone, Hershey, 2480.
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 Jordan sandstone, Berkeley, 429.
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 Juniata formation, Darton, 1335.
 Juniata formation, O'Harra, 4129.
 Kanawha formation, Campbell, 741.
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 Kansan drift, Calvin, 711, 712, 718.
 Kansan drift, Hershey, 2478.
 Kansan drift, Leonard, 3464.
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 Kansan drift, Tilton and Bain, 5396.
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 Kansan stage, Beyer, 434.
 Kansan till, Norton, 4124.
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 Kansas drift, Calvin and Bain, 720.
 Kansas till, Leverett, 3494.
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 Kenai series, Eldridge and Muldrow, 1631.
 Kenai series, Emmons, 1713.
 Kenai series, Schrader, 4834.
 Kenai series, Spurr, 5173.
 Kendal Green slate, Hobbs, 2627.
 Kennett limestone, Rand, 4528.
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 Kibbey sandstone, Weed, 5953.
 Kiger division, Cragin, 1128.
 Kilmakof series, Spurr, 5184.
 Kimberling shale, Campbell, 735.
 Kinderhook, Beyer, 435, 438.
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 Kinderhook limestone, Marbut, 3647.
 Kinderhook shale, Norton, 4122.
 King limestone, Shepard, 4946.
 Kingfisher formation, Cragin, 1128.
 Kingston beds, Clarke, 971.
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 Kingston formation, Hill, 2564.
 Kingstown series, Shaler, Woodworth, and
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 Kitchi schists, Van Hise and Bayley, 5704.
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 Knob dolomite, Campbell, 735, 740.
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 Kome series, White and Schuchert, 6048.
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 Lane shales, Haworth, 2375.
 Lansdale shale, Lyman, 3616.
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 Laurentian, Barlow, 243.
 Laurentian, Bell, 406.
 Laurentian, Coleman, 1038.
 Laurentian, Dawson, 1426.
 Laurentian, Ellis, 1658.
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 Laurentian, Winchell and Grant, 6289.
 Lawrence shale, Crane, 1137.
 Lawrence shale, Haworth, 2375.
 Lawrence shale, Keyes, 3128, 3142, 3148.
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 Leadville limestone, Emmons, 1712.
 Leadville limestone, Spurr, 5175.
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 Lecompton shale, Haworth, 2375.
 Leda clay, Wilson, 6271.
 Lee conglomerate, Keith, 2965.
 Lee formation, Campbell, 736, 737, 739, 740.
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 Lewistown formation, Clark, 911.
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 Liguanea formation, Spencer, 5152.
 Lime Creek shale, Williams, 6195.
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 Loess, Norton, 4124.
 Loess, Sardeson, 4807.
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 Lookout formation, White, 6052.
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 Loudon formation, Clark, 911.
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 Louisiana limestone, Shepard, 4946.
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 Lower Helderberg, Girty, 2037.
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 Lower Menominee series, Van Hise and Bayley, 5713.
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 Lowerre quartzite, Eckel, 1612.
 Lowerre quartzite, Merrill, 3936.
 Lowville limestone, Clarke, 971.
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 Maclurea bed, Sardeson, 4799.
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 Madison group, Weed, 5953.
 Madison limestone, Griswold, 2202.
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 Mammoth limestone, Smith, 5032.
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 Manchieneal formation, Hill, 2564.
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 Manitou series, Winchell, 6352, 6358.
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 Maquoketa shale, Norton, 4122.
 Marais des Cygnes shales, Keyes, 3148.
 Marble Island quartzite, Tyrrell, 5499.
 Marcellus, Ries, 4622, 4623.
 Marcellus shale, Bishop, 448.
 Marcellus shale, Clarke, 971.
 Marcellus shale, Clarke and Schuchert, 965.
 Marcellus shale, Grabau, 2085.
 Marcellus shale, Lincoln, 3512.
 Marcellus shale, Luther, 3602.
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 Maroon formation, Emmons, 1712.
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 Marquette series, Van Hise, 5709.
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 Marsh shales, Walcott, 5815.
 Marshall sandstone, Gordon, 2069.
 Marshall series, Lane, 3394, 3400.
 Marshalltown shale, Beyer, 435.
 Mars Hill conglomerate, Gregory, 2166.
 Marsouin series, Dawson, 1423.
 Martinez group, Merriam, 3918.
 Martinez formation, Smith, 5039.
 Martinsburg formation, Clark, 912.
 Martinsburg shale, Darton, 1335.
 Martinsburg shale, Prosser, 4501.
 Martinsburg shale, Spencer, 5115.
 Maryville limestone, Campbell, 740.
 Massanutten sandstone, Spencer, 5115.
 Matu Chin formation, Hill, 2557.
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 McCarthy Creek shales, Rohn, 4660.
 McCune limestone, Keyes, 3135.
 McElmo formation, Cross, 1201.
 McElmo formation, Cross and Spencer, 1206.
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 McNulty rhyolite, Emmons, 1712.
 Meagher limestone, Weed, 5953.
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 Medina, Gilbert, 1992.
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 Medina sandstone, Clarke, 971.
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 Medina sandstone, Luther, 2929.
 Mentor bed, Gould, 2075.
 Mentor beds, Jones, 2929.
 Mentor beds, Prosser, 4491.
 Merced formation, Turner, 5472.
 Merced series, Merriam, 3921.
 Meriden ash bed, Emerson, 1674.
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 Merom sandstone, Blatchley and Ashley, 496.
 Mesnard quartzite, Van Hise, 5709.
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 Michigan series, Lane, 3394, 3400.
 Middlefield granite, Emerson, 1676.
 Midland sands, Willis and Smith, 6216.
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 Millers River conglomerate, Shaler, Woodworth, and Foerste, 4940.
 Millsap limestone, Gilbert, 2005.
 Millstone grit, Fletcher, 1828.
 Milton formation, Turner, 5467.
 Minho beds, Hill, 2564.
 Mission Creek series, Emmons, 1713.
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 Missourian, Keyes, 3139.
 Missourian, Leonard, 3464.
 Missourian formation, Tilton and Bain, 5396.
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 Mitchell limestone, Hopkins and Siebenthal, 2742.
 Moberly sandstone, Marbut, 3650.
 Moccasin limestone, Campbell, 735, 740.
 Mohawkian, Clarke, 971.
 Mohawkian, Clarke and Schuchert, 965, 977.
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 Niagara formation, O'Harra, 4129.
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 Niagara limestone, Calvin, 715.
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 Rancocas formation, Clark, 910, 912, 915.
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 Rockcastle conglomerate lentil, Campbell, 736, 737, 739.
 Rock Falls series, Lane, 3400.
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 Rockwood formation, Campbell, 735, 740.
 Rockwood formation, Clark, 912.
 Rockwood formation, Darton, 1335.
 Rockwood formation, Spencer, 5115.
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 Romney shale, Campbell, 735.
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 Salina group, Lincoln, 3512.
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 Sequoia formation, Campbell, 735.
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 Shark River formation, Clark, 910, 915.
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 Stonybrook quartzite, Hobbs, 2627.
 Stuntz conglomerate, Winchell, 6328, 6359.
 Sturgeon formation, Clements and Smyth, 1017.
 Sturgeon quartzite, Van Hise and Bayley, 5713.
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 Tintic quartzite, Smith, 5032.
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 Topeka limestone, Beede, 390.
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 Trenton limestone, Buckley, 655.
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 Trenton limestone, Clarke, 971.
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 Trenton limestone, Cumings, 1220.
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pyramidatus, Whitfield, 6098.

sampsoni n. sp., Miller, 3995.

sampsoni S. A. Miller, Wachsmuth and Springer, 5765a.

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Agaricocirinus splendens, Miller, 3992.

splendens n. sp., Miller and Gurley, 3991.

splendens S. A. Miller, Wachsmuth and Springer, 5765a.

stellatus Hall, Wachsmuth and Springer, 5765a.

tugurium n. sp., Miller and Gurley, 3997d.

whitfieldi Hall, Wachsmuth and Springer, 5765a.

wortheni Hall, Wachsmuth and Springer, 5765a.

Agasoma barkerianum n. sp., Cooper, 1071.

(*Trophoscyon*) n. subgen., Cooper, 1071.

? (*Trophoscyon*) *kernianum*, n. sp., Cooper, 1071.

Agassizocirinus ovalis n. sp., Miller and Gurley, 4000.

Agathaumus, Case, 768.

Agathaumus, Marsh, 3701.

Agelacirinus blairi n. sp., Miller, 3995.

faberi S. A. Miller, Miller and Faber, 3997.

legrandensis n. sp., Miller and Gurley, 3997c.

pileus, Miller and Faber, 3994.

pulaskiensis n. sp., Miller and Gurley, 3997c.

Aglithodictya n. gen., Hall and Clarke, 2269, 2270.

numulina n. sp., Hall and Clarke, 2270, 2276.

Agnostus Brongniart, Matthew, 3770, 3788.

acadicus Hartt, Matthew, 3770.

acadicus Hartt, Vogdes, 5754.

acutilobus Matthew, Vogdes, 5754.

americanus Billings, Vogdes, 5754.

bellatrema Hall, Wachsmuth and Springer, 5765a.

bellatrema, var. *major* W. and Sp. (nov. var.), Wachsmuth and Springer, 5765a.

bidens, Meek, Walcott, 5816.

bidens Meek, Vogdes, 5754.

canadensis Billings, Vogdes, 5754.

coloradensis Shumard, Vogdes, 5754.

communis Hall and Whitfield, Vogdes, 5754.

davidis Hicks, Matthew, 3770.

declivis, Matthew, 3770.

desideratus Walcott, Vogdes, 5754.

disparilis Hall, Vogdes, 5754.

fabius Billings, Vogdes, 5754.

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var. *concinus*, Matthew, 3770.

var. *trilobatus*, Matthew, 3770.

var. *vir*, Matthew, 3770.

fissus Lindgren, Matthew, 3770, 3776.

var. *trifissus* n. var., Matthew, 3770.

galba Billings, Vogdes, 5754.

gibbus Linnarsson, Matthew, 3770.

var. *acutilobus*, Matthew, 3770.

var. *partitus*, Matthew, 3770.

interstrictus White, Walcott, 5816.

josepha Hall, Vogdes, 5754.

laevigatus Dalman var., Matthew, 3776.

laevigatus Dalman, Matthew, 3770.

var. *ciceroides* n. var., Matthew, 3770.

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- Agnostus mamilla* n. var., Matthew, 3770.
laevigatus Dolman, terranovicus n. var., Matthew, 3770.
maladensis Meek, Vogdes, 5754.
montis, Matthew, 3788.
nathorsti Brogger, Matthew, 3770.
 var. *confluens* n. var., Matthew, 3770.
nathorsti Brogger, (?) mut., Matthew, 3776.
 cf. var. *nepos* Brogger, Matthew, 3776.
nudus, Beecher, 366.
nudus Beyrich, Matthew, 3770.
obtusilobus, Matthew, 3770.
obtusilobus Matthew, Vogdes, 5754.
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parvifrons, Linnarsson, Matthew, 3770, 3776.
pisiformis Linn., Matthew, 3781.
prolongus Hall and Whitfield, Vogdes, 5754.
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punctuosus Angelin, Matthew, 3770.
regulus, Matthew, 3770.
regulus Matthew, Vogdes, 5754.
rex, Beecher, 366.
rex var. *transectus* n. var., Matthew, 3770.
richmondensis Walcott, Vogdes, 5754.
seclusus Walcott, Vogdes, 5754.
tessella, Matthew, 3770.
 truncatus, n. var., Matthew, 3770.
tessella Matthew, Vogdes, 5754.
trisectus Salt., Matthew, 3751.
tumidosus Hall and Whitfield, Vogdes, 5754.
tumidosus Hall and Whitfield, Walcott, 5816.
umbo, Matthew, 3770.
umbo, Matthew, Vogdes, 5754.
umbro, mihi, mut., Matthew, 3776.
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- Agoniatites*, Clarke, 92.
opimus (W. & W.), Weller, 6006.
- Agtraulos* Hawle and Corda, 1847, Berkeley, 429.
ceticephalus Barr. var. *carinatus* n. var., Matthew, 3776.
convexus Whitfield, Berkeley, 429.
hemisphericus n. sp., Berkeley, 429.
holocephalus mihi, Matthew, 3776.
 (?) *nanus* n. sp., Matthew, 3776.
 (?) *pusillus* n. sp., Matthew, 3776.
quadrangulatus Whitfield and Gabbau, 2092.
roberti n. sp., Matthew, 3776.
(Strenuella) strenua Billings sp. var.
nasutus Walcott, Barr, 366.
Agriochoerus Leidy, Scott, 4888.
Agriochoerus Worthen, 6487.
latrons, Worthen, 6487.
Agriomeryx *migrans* n. gen. et sp., Marsh, 3690.
Agriotherium n. gen., Scott, 4888.
paradoxicum n. sp., Scott, 4888.
Aguilera *columba* White, Cragin, 1116.
Agyrtes *primordialis* n. sp., Scudder, 4900.
Alpocerat *trifidus* n. sp., 2876.
Alaba chiolana n. sp., Dall, 1259.

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- Alaba turrita* n. sp., Guppy and Dall, 2214.
Alaria rostrata, Whitfield, 6097.
Aleyonaria, Girty, 2032.
Aldrichia, elegans, n. sp., Vaughan, 5735.
Alethopteris *ambigua* Lx., White, 6050.
 coxtoni n. sp., White, 6052.
 discrepans Dn., White, 6052.
 evansi Lx., White, 6052.
 grandifolia Newb., White, 6052.
 lacei n. sp., White, 6052.
 lonchitica (Schloth.) Sternb., White, 6052.
 protaquilina n. sp., White, 6052.
 serlii (Brongn.) Goepp, White, 6049, 6050.
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Aleurosauros, Case, 763.
Aligena H. C. Lea, Dall, 1281.
 aequata, Conrad, Dall, 1281.
 elevata Stimpson, Dall, 1281.
 lineata n. sp., Dall, 1281.
 minor n. sp., Dall, 1281.
 pustulosa Dall, Dall, 1281.
Alismacites *dakotensis* n. sp., Lesquereux, 3470.
Allocodon *fortis* n. sp., Marsh, 3671.
 rarus n. sp., Marsh, 3671.
Alligatorellus, Case, 768.
Allocrinus *benedicti* n. sp., Miller, 3992.
Allodesma n. gen., Ulrich, 5539.
 subellipticum Ulrich, Ulrich, 5539.
Allonychia *ovata* n. gen. et sp., Ulrich, 5535.
 subrotunda n. sp., Ulrich, 5535.
Alloposallocrinus Cass. and Lyon, Wachsmuth and Springer, 5765a.
 celsus n. sp., Miller and Gurley, 3997c.
 conicus Cass. and Lyon, Wachsmuth and Springer, 5765a.
 gurleyi n. sp., Miller, 3992.
Allopus littoralis n. gen. et sp., Marsh, 3686.
Allorisma *andrewsi*, Whitfield, 6099.
 arkansana n. sp., Weller, 5986.
 costata Meek and Worthen, Keyes, 3062.
 granosum (Shumard), Keyes, 3062.
 maxvillensis, Whitfield, 6099.
 subcuneata Meek, Herrick, and Johnson, 2465.
 subcuneatum Meek and Hayden, Keyes, 3062.
 walkeri n. sp., Weller, 5986.
 sp., Girty, 2039.
Allosaurus, Marsh, 3701.
Almites *cuspidatus* n. sp., Lesquereux, 3470.
 grandifolia Newb., White, 6052.
 Alnus alaskana Newberry, Knowlton, 3232.
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 grandifolia Newberry, Knowlton, 3232.
 searata Newb., Newberry, 4083.
 Alnus alaskana *fossilis* Newb. n. sp., Newberry, 4083.
 sp. ?, Newberry, 4083.
Aloiopteris, *Alaba* (Girty) White, 6050.
 georgiana (Lx.) White, 6052.
 Alaba *trifida* White, 6050.
 (Corynopteris?) *widderi* Girty, White, 6050.

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- Alota* n. gen., Matthew, 3770.
flexilis n. sp., Matthew, 3770.
Alvalonia Walcott, Matthew, 3789.
plana, n. sp., Matthew, 3789.
Alveinus Conrad, Dall, 1281.
rotundus n. sp., Dall, 1281.
Alveolites, James, 2881.
Alveolites Lamarck, Lambe, 3374.
glomeratus, Say, 4813.
goldfussi Billings, Lambe, 3374.
(?) granulosus, James, 2881.
labechei Milne-Edwards and Haime, Lambe, 3374.
niagarensis Rominger, Lambe, 3374.
squamosa Billings, Lambe, 3374.
vallorum Meek, Lambe, 3374.
Amalthea willcoxi n. sp., Dall, 1259.
Amaradana n. sp., Scudder, 4900.
powellii n. sp., Scudder, 4900.
revocata n. sp., Scudder, 4900.
sterilis n. sp., Scudder, 4900.
veterata n. sp., Scudder, 4900.
Amastrophia ? *hemiplicata* Hall sp., Winchell and Schuchert, 6319.
var. rotunda n. var., Winchell and Schuchert, 6319.
? scofieldi n. sp., Winchell and Schuchert, 6319.
Amaura (*Amauropis*?) *tombigbeensis* n. sp., Harris, 2310.
Amauropis bulbiformis, Sowerby, Herrick and Johnson, 2465.
bulbiformis (Sowerby), Stanton, 5191.
jacksonensis n. sp., Harris, 2311.
meekana n. sp., Whitfield, 6097.
perovata Con., Harris, 2308.
punctata, Whitfield, 6097.
singleyi n. sp., Harris, 2307.
utahensis, White, Herrick and Johnson, 2465.
utahensis White, Stanton, 5191.
Amberleya dilleri n. sp., Stanton, 5199.
Ambloctonus sinusos Cope, Osborn and Wortman, 4180.
Amblysiphonella prosseri Clarke, Clarke, 956.
Ambocœlia Hall, Grabau, 2086.
Ambocœlia Hall, Hall and Clarke, 2261, 2264.
levicula n. sp., Rowley, 4677a.
nana Grabau, Grabau, 2086.
parva n. sp., Weller, 5994.
præumbona Hall, Grabau, 2086.
spinosa n. sp., Clarke, 946.
spinosa n. sp., Hall and Clarke, 2261a, 2263.
spinosa Clarke, Grabau, 2086.
umbonata (Conrad), Grabau, 2086.
var. nana, n. var., Grabau, 2086, 2087.
Ambonychia Hall, emend Ulrich, Ulrich, 5539.
affinis n. sp., Ulrich, 5539.
amygdalina Hall, Ulrich, 5539.
attenuata, Whitfield, 6102.
bellistriata Hall, Ulrich, 5539.
cincinnatiensis n. sp., Miller and Faber, 3996.
erecta, Whitfield, 6102.
lamellosa, Whitfield, 6102.
planistriata Hall, Ulrich, 5539.

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- Ambonychia planistriata*, Whitfield, 6102.
Amelanchier similis Newb., Newberry, 4083.
Ammodon leidyanum n. gen. et sp., Marsh, 3681.
potens n. sp., Marsh, 3681.
(Elotherium) bathrodon, Marsh, 3681.
Ammonites complexus, Whitfield, 6097.
delawarensis, Whitfield, 6097.
dentato-carinatus, Whitfield, 6097.
telifer, Whitfield, 6097.
vanuxemi, Whitfield, 6097.
(Placentiferas) placenta, Whitfield, 6097.
(Sphenodiscus) lenticularis, Whitfield, 6097.
Ammosaurus, Marsh, 3701.
Amnicola ? *cretacea* n. sp., Stanton, 5206.
omphalotropis Pilsbry n. sp., Dall, 1259.
yatesiana n. sp., Cooper, 1071.
Ampheristocrinus Hall, Weller, 6002.
dubius n. sp., Weller, 6002.
Amphibamus, Case, 767.
grandiceps Cope, Hay, 2388.
Amphichæna Philippi, Dall, 1281.
Amphiclina Laube, Hall and Clarke, 2264.
Amphiclinodonta Bittner, Hall and Clarke, 2264.
Amphictis, Riggs, 4641.
Amphicyrta inhaesa n. sp., Scudder, 4900.
Amphidesma burnsi n. sp., Whitfield, 6101.
subovata, Say, 4813.
Amphigenia Hall, Hall and Clarke, 2261a, 2264.
Amphihelia natchitochensis n. sp., Vaughan, 5735.
Amphipeltis paradoxus Salter, Matthew, 3768.
Amphispongia oblonga Salt., Rauff, 4548.
Amphistegina lessonii, Bagg, 148.
Amphitomella Bittner Hall and Clarke, 2264.
Amphoraerinus Austin, Wachsmuth and Springer, 5765a.
blari n. sp., Miller and Gurley, 3999.
divergens (Hall), Wachsmuth and Springer, 5765a.
divergens (Hall), Keyes, 3061.
divergens, Whitfield, 6098.
inflatus, Whitfield, 6098.
jessicæ r. sp., Miller and Gurley, 4001.
sampsoni n. sp., Miller and Gurley, 4000.
sedallensis n. sp., Miller and Gurley, 3998.
spinobrachiatus (Hall), Wachsmuth and Springer, 5765a.
viminalis (Hall), Wachsmuth and Springer, 5765a.
Amplexopora, Simpson, 4983.
Amplexus Sowerby, Grabau, 2086.
bicostatus n. sp., Miller, 3992.
blairi Miller, Keyes, 3061.
blairi n. sp., Miller, 3992.
cinctatus n. sp., Miller, 3995.
corniculum n. sp., Miller, 3992.
fragilis White and St. John, Keyes, 3061.
hamiltoniæ Hall, Grabau, 2086.
(?) intermittens Hall, Grabau, 2086.
(?) rockfordensis n. sp., Miller and Gurley, 4003.

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- Amplexus westii* n. sp., Beede, 386.
yandelli? Edwards and Haime, Keyes, 3061.
Ampullina fischeri n. sp., Dall, 1259.
recurva var., Harris, 2316.
solidula n. sp., Dall, 1259.
Ampyx americanus Vogdes and Safford, Vogdes, 5756.
halli Billings, Vogdes, 5756.
normalis Billings, Vogdes, 5756.
rutilius Billings, Vogdes, 5756.
semicostatus Billings, Vogdes, 5756.
Amusium lyoni Gabb, Dall, 1272.
papyraceum Gabb, Dall, 1272.
squamuium, Harris, 2313.
Amycla communis, Whitfield, 6101.
Amynilyspes? sp., Scudder, 4897.
Amynodon intermedius, Osborn, 4190.
Anabaia Clarke, Hall and Clarke 2261, 2264.
paraia n. sp., Clarke, 976.
Anacardites antiquus n. sp., Lesquereux, 3470.
Anacodon ursidens Cope, Osborn and Wortman, 4180.
Ananchytes ovalis, Clark, 892.
texana n. sp., Cragin, 1115.
Anantina lineata, Stanton, Herrick and Johnson, 2465.
Anapella Dall, Dall, 1272.
Anaptogonia Cope, Cope, 1104.
cloacina n. sp., Cope, 1101.
hiatidens Cope, Cope, 1104.
Anaptomorphus homunculus Cope, Osborn and Wortman, 4180.
Anarcestes plebeiformis Hall (sp.), Clarke, 962.
Anastomopora n. gen., Simpson, 4983.
Anastrophia Hall, Hall and Clarke, 2261a, 2264.
Anastrophia, n. sp., Clarke, 971.
Anatina lineata n. sp., Stanton, 5191.
texana n. sp., Cragin, 1115.
tosta n. sp., Cragin, 1115.
(Cercomya) punctata n. sp., Stanton, 5206.
semiradiata n. sp., Whiteaves, 6095a.
Anatinella Sowerby, Dall, 1272.
Anchisaurus, Case, 768.
Anchisaurus, Marsh, 3679, 3701.
colurus, Marsh, 3679.
solus n. sp., Marsh, 3679, 3701.
Anchitherium minimus n. sp., Douglas, 6540.
Anchura abrupta?, Whitfield, 6097.
abrupta var. *acutispira* n. var., Whitfield, 6097.
arenaria, Whitfield, 6097.
kiowana n. sp., Cragin, 1118.
kiowana, Stanton, 5197.
modesta n. sp., Cragin, 1115.
pagodaformis n. sp., Whitfield, 6097.
pennata, Whitfield, 6097.
solitaria n. sp., Whitfield, 6097.
? sublaevis M. & H., Logan, 3554.
(Drepanocheilus) compressa n. sp., Whitfield, 6097.
ruida White, Herrick and Johnson, 2465.
ruida white, Stanton, 5191.
Ancilla californica n. sp., Cooper, 1071.

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- Ancilla* (Oliverrato) n. sub-gen., Cooper, 1071.
(Olivula) staminea Con., Harris, 2316.
Ancillaria shephardi n. sp., Dall, 1259.
Ancistroceras, Hyatt, 2819.
Ancodus brachyrhynchus, Scott, 4875, 4869.
rostratus n. sp., Scott, 4875.
Ancylopodia, Osborn, 4185.
Ancyrocrinus Hall, Grabau, 2086.
bulbosus Hall, Grabau, 2086.
Andromeda cretacea n. sp., Lesquereux, 3470.
delicatula Lx., Hollick, 2683.
eolignitica n. sp., Hollick, 2683.
flexuosa n. sp., Newberry, 4080.
latifolia n. sp., Newberry, 4080.
linifolia n. sp., Lesquereux, 3470.
novae-caesareae Hollick n. sp., Newberry, 4080.
parlatorii Heer, Hollick, 2696.
parlatorii Heer, Lesquereux, 3472.
parlatorii Heer, var. *longifolia* n. var., Lesquereux, 3470.
parlatorii Heer, Newberry, 4080.
pfaffiana Heer, Lesquereux, 3470.
snowii n. sp., Lesquereux, 3470.
tenuinervis n. sp., Lesquereux, 3470.
wardiana n. sp., Lesquereux, 3470.
Anemites pottsvilleensis n. sp., White, 6052.
Anemia perplexa Hollick, Newberry, 4083.
stricta n. sp., Newberry, 4080.
subcretacea (Sap.) Gard. and Ett., Knowlton, 3264.
Angelinoceras n. gen., Hyatt, 2819.
Angiopteridium californicum Fontaine, Ward, 5857.
canmorense, Dawson, 1434.
Anguinella Conrad, Whitfield, 6101.
virginiana, Whitfield, 6101.
Anisactinella Bittner, Hall and Clarke, 2264.
Aniscoceras vancouverense, Whiteaves, 6082.
Anisodonta Deshayes, Dall, 1281.
americana n. sp., Dall, 1281.
(Basterotia) bowdeniana n. sp., Dall, 1281.
(Fulcrella) (elliptica Récluz? var.) carolina Dall, Dall, 1281.
Anisonchus mandibularis Cope, Osborn and Earle, 4191.
Anisotrypa sp., Girty, 2038.
Annularia acicularis (Dn.), Ren., White, 6052.
cuspidata Lx., White, 6052.
latifolia (Dn.) Kidst., White, 6052.
sphenophylloides (Zenk.) Guth., var. *intermedia* Lx., White, 6049.
sphenophylloides (Zenk.) Guth., White, 6040.
stellata (Schloth.) Wood, White, 6040, 6049, 6050.
var. angustifolia Lx.?, White, 6050.
Anodonta nuttalliana, var. *lignitica* n. var., Cooper, 1071.
Anodontopsis affinis n. sp., Whiteaves, 6096.
austriana n. sp., Clarke, 976.
putilla, n. sp., Clarke, 976.
Anogmus polymicrodus Stewart, Stewart, 5244.
Anolotichia Ulrich, Ulrich, 5537.

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- Anolotichia impolita*, Ulrich, 5537.
Anomalina ammonoides (Reuss), Bagg, 150.
ammonoides Reuss sp., Woodward and Thomas, 6433.
grosserugosa (Gümbel), Bagg, 150.
grosserugosa (Gümbel), Chapman, 870.
rotula d'Orbigny, Chapman, 870.
Anomalocaris n. gen., Whiteaves, 6075.
anomalum, Hyatt, 2819.
Anomalodonta S. A. Miller, Ulrich, 5535.
alata, Ulrich, 5535.
plicata n. sp., Ulrich, 5535.
Anomalophyllites bridgetonensis n. sp., Hollick, 2694.
Anomalospongia reticulatus n. gen. et. sp., Ulrich, 5536.
Anomia (Linné) Müller, Dall, 1272.
aculeata Gmelin, Dall, 1272.
concentrica Meek, Stanton, 5191.
ephyppioides Gabb, Dall, 1272.
floridana n. sp., Dall, 1272.
limatula Dall, 1272.
linensis n. sp., Whiteaves, 6095a.
lisbonensis Aldrich, Dall, 1272.
megeei Clark, Clark, 906, 904.
microgrammata n. sp., Dall, 1272.
navicilloides n. sp., Aldrich, 76.
propatoris White?, Stanton, 5191.
ruffini Conrad, Dall, 1272.
senescens n. sp., Stanton, 5196.
simplex d'Orbigny, Dall, 1272.
subquadrata n. sp., Stanton, 5191.
texana n. sp., Hill, 539.
umbonata n. sp., Guppy and Dall, 2214, sp., Harris, 2313.
Anomocare magnum Brogger ? var., Matthews, 3776.
stenoides Matt., Matthew, 3781.
tucer Billings sp., Matthews, 3776.
Anomoclonella n. gen., Rauff, 4549.
zitteli n. sp., Rauff, 4549.
Anomozamites? egyptiacus Fontaine n. sp., Ward, 5857.
princeps (Oldham and Morris) Schimper?, Ward, 5857.
Anomphalus rotulus Meek and Worthen, Keyes, 3062.
Anoplia nucleata Hall, Clarke, 971.
Anoplothea Sandberger, Hall and Clarke, 2261, 2264.
(Cœlospira) Hall, Hall and Clarke, 2261.
(Cœlospira) Hall, Hall and Clarke, 2264.
(Leptocœlia) Hall, Hall and Clarke, 2264.
Anoptera miseneri n. gen. et. sp., Ulrich, 5535.
Anosoceras vancouverense Gabb, Whiteaves, 6085.
Anser condoni n. sp., Shufeldt, 4960.
Anthocyrtis, Matthew, G. F., 3760.
Antholithus gaudium-rose n. sp., Ward, 5846.
Anthonomus arctus, Scudder, 4890.
concussus, Scudder, 4890.
corruptus, Scudder, 4890.
debilitatus, Scudder, 4890.
defossus, Scudder, 4890.
evigilatus, Scudder, 4890.

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- Anthonomus primordius*, Scudder, 4890.
reventus, Scudder, 4890.
revictus, Scudder, 4890.
soporosus, Scudder, 4890.
Anthracomblattina americana n. sp., Scudder, 4898.
virginiensis, Scudder, 4898.
Anthracomartus woodruffi, Scudder, 4892.
Anthracomya arenacea (Dawson) Hind, Packard, 4229.
Anthracopupa ohioensis, Whitfield, 6099.
Anthracerotherium curtum, Marsh, Osborn and Wortman, 4189.
karens n. sp., Osborn and Wortman, 4189.
Anthrbus sordidus, Scudder, 4890.
Antillia biloba (Duchassaing), Gane, 235.
Antocha Osten Sacken, Scudder, 4894.
principalis, Scudder, 4894.
Aparchites Jones, Ulrich, 5540.
arrectus n. sp., Ulrich, 5540.
chatfieldensis n. sp., Ulrich, 5540.
ellipticus n. sp., Ulrich, 5540.
fimbriatus Ulrich, Ulrich, 5540.
granilabiatus Ulrich, Ulrich, 5540.
millepunctatus Ulrich, Ulrich, 5540.
minutissimus Hall var. *trentonensis* n. var., Ulrich, 5540.
parvulus Jones, Whiteaves, 6087.
(?) robustus n. sp., Matthew, 3781.
secunda n. sp., Matthew, 3761.
whiteavessii Jones, Whiteaves, 6087.
Apateolepis, Clappole, 994.
Apatosaurus, Marsh, 3701, 3702.
Apeibopsis cyclophylla n. sp., Lesquereux, 3470.
Apheleceras, Hyatt, 2816.
Aphelops fossiger Cope, Hatcher, 2335.
fossiger, Leidy, 3447.
Aphetoceras n. gen., Hyatt, 2819.
americanum n. sp., Hyatt, 2819.
attenuatum, Hyatt, 2819.
boreale n. sp., Hyatt, 2819.
farnsworthi, Hyatt, 2819.
Aphlebia arborescens Lx. sp., White, 6040.
cf. filiciformis (Gutb.) Sterzel, White, 6050.
germani Zeill, White, 6050.
membranacea (Lx.), White, 6050.
spinosa (Lx.), White, 6050.
subgoldenbergii n. sp., White, 6050.
sp. White, 6050.
Aphrophora sp., Scudder, 4895.
Apion confectum, Scudder, 4890.
curiosum, Scudder, 4890.
exanimale, Scudder, 4890.
evestigatum, Scudder, 4890.
pumilum, Scudder, 4890.
refrenatum, Scudder, 4890.
smithii, Scudder, 4890.
Apocynophyllum sapindifolium n. sp., Hollick, 2708.
sordidum n. sp., Lesquereux, 3470.
Apodidæ Burmeister (emend after Packard), Schuchert, 4850.
Apodinae n. subfam., Schuchert, 4850.

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Genera and species described—Continued.

- Aporrhais gracilis* Ald., Harris, 2316.
castorensis Whitfield, Herrick and Johnson, 2465.
prolabiata White, Herrick and Johnson, 2465.
(*Goniocheila*) *castorensis* Whitfield, Stanton, 5191.
[*Perisoptera*?] *prolabiata* (White), Stanton, 5191.
sp., Harris, 2310.
sp., Stanton, 5199.
Aptychopsis Barrande, Matthew, 3790.
(?) *knoxvillensis* n. sp., Stanton, 5199.
mexicanus n. sp., Aguilera, 57.
terranovicus, n. n. arcuatus, Matthew, 3790.
Apuc cancriformis, Beecher, 366.
Aquila pliogryps n. sp., Shufeldt, 4960.
sodalis n. sp., Shufeldt, 4960.
Arachnophyllum diffuens Milne-Edwards and Haime sp., Lambe, 3375.
eximium Billings sp., Lambe, 3375.
Aralia berberidifolia n. sp., Lesquereux, 3470.
formosa Heer (?), Newberry, 4080.
grönländica Heer. Lesquereux, 3470.
grönländica Heer, Newberry, 4080.
macrophylla Newb., Newberry, 4083.
masoni n. sp., Lesquereux, 3470.
nassauensis n. sp., Hollick, 2672.
notata Lx., Knowlton, 3255.
palmata n. sp., Newberry, 4080.
patens n. sp., Newberry, 4080.
polymorpha n. sp., Newberry, 4080.
quinquepartita Lesq., Newberry, 4080, 4083.
rotundiloba n. sp., Newberry, 4080.
rotundiloba Newb. (?), Hollick, 2696.
saportanea Lesq., var. *deformata* n. var., Lesquereux, 3470.
serrulata n. sp., Knowlton, 3255.
submarginata Lesq., Lesquereux, 3470.
towneri Lesq. (?), Hollick, 2698.
towneri Lesq., Lesquereux, 3470.
triloba Newb., Newberry, 4083.
wellingtoniana n. sp., Lesquereux, 3470.
wellingtoniana Lesq., Newberry, 4080.
whitneyi Lx., Knowlton, 3255.
wrightii n. sp., Knowlton, 3255.
Araucaria spatulata Newb., Newberry, 4083.
Araucarioxylon, Knowlton, 3229.
hoppertonæ Knowlton n. sp., Ward, 5856.
(?) *obscurum* n. sp., Knowlton, 3260.
(?) *obscurum* Knowlton n. sp., Ward, 5857.
virginianum Kn., Knowlton, 3254.
virginianum Knowlton, Ward, 5857.
woodworth Knowlton, Ward, 5857.
Araucarites cuneatus Ward n. sp., Fontaine, 1850.
ovatus n. sp., Hollick, 2698.
(?) *pennsylvanicus* Fontaine n. sp., Ward, 5857.
reichenbachii Gein, Lesquereux, 3470.
wyomingensis n. sp., Fontaine, 1850.
yorkensis Fontaine n. sp., Ward, 5857.
Arca (Linné) Lamarck, Dall, 1272.
aquila Heilprin, Dall, 1272.
arata, Say, 4813.

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Genera and species described—Continued.

- Arca bordeniana* n. sp., Dall, 1272.
carolinensis Wagner, Dall, 1273.
centenaria, Say, 4813.
galliennei, var. *tramitensis*, n. var., Cragin, 1115.
hatchetigbeensis n. sp., Harris, 2313.
incile, Say, 4813.
labiata Sowerby var., Harris, 2309.
occidentalis Phillips, Dall, 1272.
paratina n. sp., Dall, 1272.
ponderosa var. *carolinensis*, Harris, 2309.
rhomboidella Lea var., Vaughan, 5722.
tehamaensis n. sp., Stanton, 5199.
textrina n. sp., Stanton, 5199.
transversa var. *busana* n. var., Harris, 2309.
umbonata Lamarck, Dall, 1272.
virginiae Wagner, Dall, 1273.
wagneriana Dall, Dall, 1272.
(*Barbatia*) (Gray) Adams, Dall, 1272.
(*Latiarca*?) *idonea* (?), Whitfield, 6101.
(*Lunarca*) (Gray) Adams, Dall, 1272.
(*Nemodon*) *cumshewensis* n. sp., Whiteaves, 6095a.
simillima n. sp., Whiteaves, 6095a.
(*Noetia*) Gray, Dall, 1272.
incile Say, Dall, 1272.
limula Conrad, Dall, 1272.
limula var. *platyura*, Dall, 1272.
var. *filosa* Conrad, Dall, 1272.
ponderosa Say, Dall, 1272.
(*Scapharca*) (Gray), Dall, 1272.
calipleura, Whitfield, 6101.
lineosa (?), Whitfield, 6101.
(*Striarca*) *centenaria*, Whitfield, 6101.
(*Trigonarca*) *siouxensis* M. and H. Cragin 1115.
sp., Harris, 2310.
Archæosaurus, Case, 767.
Archæobelus vellicatus Cope, Case, 773.
Archæocidarisculeata Shumard, Keyes, 3061, 3077.
agassizii Hall, Jackson, 2871.
agassizii Hall, Keyes, 3061, 3077.
biangulata Shumard, Keyes, 3061, 3077.
cratis White, Keyes, 3077.
dininnii White, Keyes, 3077.
drydenensis Vanuxem, Jackson, 2871.
drydenensis (Vanuxem), Keyes, 3077.
hallianus (Geinitz), Keyes, 3077.
illinoisensis Worthen and Miller, Keyes, 3077.
keokuk Hall, Keyes, 3077.
legrandensis n. sp., Miller and Gurley, 3991.
longispinus Newberry, Keyes, 3077.
megastylus Shumard, Keyes, 3061, 3077.
mucronata Meek and Worthen, Keyes, 3077.
norwoodi Hall, Keyes, 4077.
ornatus Newberry, Keyes, 3077.
shumardiana Hall, Keyes, 3077.
spinoclavatus Worthen and Miller, Keyes, 3077.
trudifer White, Keyes, 3077.

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Genera and species described—Continued.

- Archæocidaris wortheni*, Jackson, 2871.
wortheni Hall, Keyes, 3061, 3077.
- Archæocrinus Wachsmuth and Springer*, Weller, 6002.
asperatus n. sp., Miller and Gurley, 3997c.
depressus n. sp., Weller, 6002.
knoxensis n. sp., Miller and Gurley, 3997d.
parvus n. sp., Miller and Gurley, 3997c.
peculiaris n. sp., Miller and Gurley, 3997c.
- Archæopteryx*, Case, 769.
- Archæoscyphiaminganensis* (Billings) Hinde, Rauff, 4548.
- Archelon ischyros*, Wieband, 6128, 6136.
marshi n. sp., Wieband, 6136.
- Archeocyathus profundus*, James, 2893.
- Archeozoon*, Dawson, 1448.
- Archicorys*, Matthew, G. F., 3760.
- Archimedes*, Simpson, 4983.
owenanus Hall, Keyes, 3062.
wortheni Hall, Keyes, 3062.
 sp., Girty, 2038.
- Archimediopora*, Simpson, 4983.
- Archinacella* n. gen., Ulrich and Scofield, 5541.
cingulata n. sp., Ulrich and Scofield, 5541.
deleta Sardeson sp., Ulrich and Scofield, 5541.
depressa n. sp., Ulrich and Scofield, 5541.
instabilis Billings var. *incurva*, n. var., Ulrich and Scofield, 5541.
perovalis Whitfield sp., Ulrich and Scofield, 5541.
powersi n. sp., Ulrich and Scofield, 5541.
richmondensis n. sp., Ulrich and Scofield, 5541.
rotunda n. sp., Ulrich and Scofield, 5541.
rugatina n. sp., Ulrich and Scofield, 5541.
semicarinata n. sp., Ulrich and Scofield, 5541.
simulatrix n. sp., Ulrich and Scofield, 5541.
subrotunda n. sp., Ulrich and Scofield, 5541.
valida Sardeson sp., Ulrich and Scofield, 5541.
- Architectonica annosa*, Whitfield, 6097.
- Archilus euphoberioides* n. sp., Scudder, 4897.
lyelli n. sp., Scudder, 4597.
xylobioides Scudder, Scudder, 4897.
- Arca puncticostata*, Ami, 82.
- Arctostaphylos elliptica* n. sp., Knowlton, 3255.
- Arenicolites* Salter, Matthew, 3789.
brevis? Matthew, 3789.
- Arethusina konincki*, Beecher, 366.
- Arges consanguineus*, Beecher, 366.
wesenbergensis var. *paulianus* n. var., Clarke, 952.
- Arionellus levis* n. sp., Walcott, 5816.
 sp. undet., Walcott, 5816.
- Arisæma cretacea* n. sp., Lesquereux, 3470.
 (?) *dubia* n. sp., Hollick, 2698.
 (?) *mattewanense* n. sp., Hollick, 2698.
- Aristerella* n. gen., Ulrich, 5539.

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Genera and species described—Continued.

- Aristerella nitidula* n. sp., Ulrich, 5539.
- Aristolochia cordifolia* Newb., Newberry, 4083.
- Aristozoë* Barrande, Grabau, 2092.
canadensis n. sp., Whitfield, 6099.
- Arnioceras nevadanum*, Hyatt, 2818.
- Arostichites linnæifolius* (Bunbury) Fontaine, Ward, 5857.
microphyllus Fontaine? Ward, 5857.
- Arpedium stillicidii*, Scudder, 4896.
- Artemia gracilis*, Beecher, 366.
- Artena* Conrad, Whitfield, 6101.
- Arthracantha* Williams, Wachsmuth and Springer, 5765a.
depressa W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
ithacensis Williams, Wachsmuth and Springer, 5765a.
punctobrachiata Williams, Wachsmuth and Springer, 5765a.
- Arthroclema*, Simpson, 4983.
- Arthroclema*, Billings, Ulrich, 5537.
armatum Ulrich, Ulrich, 5537.
cornutum Ulrich, Ulrich, 5537.
striatum n. sp., Ulrich, 5537.
 sp. undet., Ulrich, 5537.
- Arthrodora*, Case, 766.
- Arthropycus* Hall, James, 2885.
harlani, Conrad, Clarke, 976.
- Arthropora*, Simpson, 4983.
- Arthropora*, Ulrich, Ulrich, 5537.
bifurcata n. sp., Ulrich, 5537.
reversa n. sp., Ulrich, 5537.
simplex Ulrich, Ulrich, 5537.
- Arthrostylus*, Simpson, 4983.
- Arthrostylus*, Ulrich, Ulrich, 5537.
conjunctus Ulrich, Ulrich, 5537.
obliquus Ulrich, Ulrich, 5537.
- Artionyx*, Osborn, 4185.
gaudryi n. sp., Osborn and Wortman, 4180.
- Artocarpidium cretaceum* Ett., Lesquereux, 3470.
- Artocarpophyllum occidentale* n. sp., Dawson, 1436.
- Artocarpus dubia* n. sp., Hollick, 2708.
lessigiana (Lx.) Kn., Hollick, 2708.
pungens Lx., Hollick, 2708.
quercoides n. sp., Knowlton, 3255.
- Arystidictya* n. gen., Hall and Clarke, 2269, 2270.
elegans n. sp., Hall and Clarke, 2269, 2270.
nodifera n. sp., Hall and Clarke, 2269, 2270.
- Asaphis* Modeer, Dall, 1281.
canalis (?) Conrad, Cleland, 1012.
centenaria Conrad, Dall, 1281.
convexus?, Cleland, 1012.
diurus Green, Clarke, 935.
gigas De Kay, Whiteaves, 6087.
(Isotelus) susse Whitfield, Whiteaves, 6087.
- Ascoceras costulatum* n. sp., Whiteaves, 6083, 6087.
- Ascodictyum*, Simpson, 4983.

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Genera and species described—Continued.

- Asimina cocenica* ? Lx., Knowlton, 3264.
Asinima triloba, Dawson, G. M., 1418.
Aspidella terranovica Billings, Walcott, 5815.
Aspidichthys ? *notabilis* n. sp., Whiteaves, 6096.
Aspidiophyllum dentatum Lesq., Lesquereux, 3470.
Aspidium fredericksburgense, Dawson, 1434.
 kennerlyi Newb., Newberry, 4083.
 virginicum Font., Ward, 5846.
Aspidoceras alamtocensis n. sp., Aguilera, 57.
Aspidopora, Simpson, 4983.
Aspidopora, Ulrich, Ulrich, 5537.
 elegantula n. sp., Ulrich, 5537.
 parasitica Ulrich, Ulrich, 5537.
Aspidorhynchus, Case, 766.
Asplenium dicksonianum Heer ?, Fontaine, 1850.
 dicksonianum Heer, Lesquereux, 3470.
 dicksonianum Heer, Newberry, 4080.
 dicksonianum Heer, Ward, 5856.
 erosum ? (Lx.) Kn., Knowlton, 3255.
 foersteri Deb. and Ett. ?, Newberry, 4080.
 haguei n. sp., Knowlton, 3255.
 iddingsi n. sp., Knowlton, 3255.
 magnum n. sp., Knowlton, 3255.
 remotidens n. sp., Knowlton, 3255.
 tenellum n. sp., Knowlton, 3264.
 tenerum ? Lesquereux, Knowlton, 3262.
 wyomingense n. sp., Knowlton, 3264.
 sp., Knowlton, 3264.
Astacus fluviatilis, Beecher, 366.
Astarte aldrichiana n. sp., Harris, 2310.
 californica n. sp., Stanton, 5199.
 corrugata n. sp., Stanton, 5199.
 cuneiformis, Whitfield, 6101.
 distans, Whitfield, 6101.
 marylandica n. sp., Clark, 1904, 1906.
 meeki n. sp., Stanton, 5206.
 packardi White, Logan, 3559.
 semidentata n. sp., Cooper, 1071.
 smithvillensis n. sp., Harris, 2307, 2311.
 smithvillensis var., Harris, 2313, 2315.
 smithvillensis var. *mediavia*, Harris, 2310.
 subpontis n. sp., Harris, 2310.
 symmetrica, Whitfield, 6101.
 thomasi, Whitfield, 6101.
 trapezoidalis n. sp., Stanton, 5199.
 undulata, Say, 4813.
 vicina, Say, 4813.
 (?) *Stearnsia* *acuminata* n. sp., Cragin, 1115.
Astartella vera Hall, Keyes, 3062.
Asterias (?) *dubium* Whitfield, Clark, 892.
 dubium Whitfield, Logan, 3559.
Asterocarpus falcatus (Emmons) Fontaine, Ward, 5857.
Asterophyllites arkansanus n. nom. White, 6052.
 equisetiformis (Schloth.) Brongn., White, 6049, 6050.
 longifolius (Stb.) Brongn., White, 6050.
 parvulus Dn., White, 6052.
Asteroptychius gracilis Newb., Newberry, 4082.

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Genera and species described—Continued.

- Asthenodonta westoni* n. sp., Whiteaves, 6079.
Astralites n. gen., Whiteaves, 6074.
 fimbriatus n. sp., Whiteaves, 6074.
Astrallium precursor n. sp., Dall, 1259.
 (*Lithopoma*) *chipolanum* n. sp., Dall, 1259.
Astrangia expansa n. sp., Vaughan, 5735.
 harrisi n. sp., Vaughan, 5735.
 lineata (Conrad), Gane, 1934.
 ludoviciana n. sp., Vaughan, 5735.
 wilcoxensis n. sp., Vaughan, 5735.
Astrapis desiderata n. sp., Walcott, 5780.
Astrocladia (?) *elegans*, Matthew, 3761.
 ? *elongata*, Matthew, 3761.
 ? *virguloides*, Matthew, 3761.
Astroccenia conica n. sp., Logan, 3555.
 granti Sollas, Rauff, 4548.
 pumpellyi n. sp., Vaughan, 5735.
Astrocytides ottawaensis n. sp., Whiteaves, 6087.
Astrodapsis tumidus Rémond, Merriam, 3922.
 whitneyi Rémond, Merriam, 3922.
Astrobelia burnsi n. sp., Vaughan, 5735.
 neglecta n. sp., Vaughan, 5735.
Astroporites ottawaensis n. sp., Lambe, 3373.
Astylomanon cratera, Rauff, 4548.
 cratera *aryballium*, Rauff, 4548.
 balantium, Rauff, 4548.
 cantharium, Rauff, 4548.
 cylix, Rauff, 4548.
 lecythium, Rauff, 4548.
 patera, Rauff, 4548.
 poterium, Rauff, 4548.
 promiscum, Rauff, 4548.
 pluriexcavatum n. sp., Rauff, 4548.
 prototypum, Rauff, 4548.
 verrucosum n. sp., Rauff, 4548.
 verrucosum var. *bullifera*, Rauff, 4548.
Astylospongia, James, 2881.
 piamassa, Walker, 5820.
 præmorsa var. *pusilla* (?), Rauff, 4548.
 (?) (*Paleomanon* ?) *bursa* Hall, Rauff, 4548.
Astyris bastropensis n. sp., Harris, 2307.
 subfraxa n. sp., Harris, 2316.
Asymptoceras, Hyatt, 2816.
 newtoni n. sp., Hay, 2389.
Atactodea Dall, Dall, 1272.
Atactopora, Simpson, 4983.
Atactoporella, Simpson, 4983.
Atactoporella Ulrich, Ulrich, 5537.
 crassa n. sp., Ulrich, 5537.
 insueta n. sp., Ulrich, 5537.
 remosa n. sp., Ulrich, 5537.
 typicalis var. *præcepta*, n. var., Ulrich, 5537.
Atænius patescens, Scudder, 4900.
Atelodus neumayri n. sp., Osborn, 4221.
Athrotaxopsis tenuicaulis Fontaine, Fontaine, 1850.
Athyris McCoy, Grabau, 2086.
Athyris McCoy, Hall and Clarke, 2261, 2264.
 argentea (Shepard) Keyes, 3062.
 brittsi n. sp., Miller, 3995.
 coloradoensis n. sp., Girty, 2039.
 corpulenta (Win.) Weller, 6006.

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Genera and species described—Continued.

- Athyris densa* n. sp., Hall and Clarke, 2261a, 2263, 2268.
hannibalensis (Swallow), Keyes, 3062.
incrassata Hall (?), Girty, 2038.
incrassatus Hall, Keyes, 3062.
lamellosa, Herrick and Johnson, 2465.
lamellosa Léveillé, Girty, 2038.
lamellosa (Léveillé), Weller, 5994.
missouriensis n. sp., Miller, 3995.
ottervillensis n. sp., Miller, 3995.
spiriferoides (Eaton), Grabau, 2086.
subquadrata Hall, Weller, 5986.
subquadrata, Whitfield, 6099.
subtilita, Whitfield, 6099.
tenuilineata n. sp., Rowley, 4677a.
vittata var., Girty, 2039.
vittata Hall, Keyes, 3062.
vittata var. *triplicata* n. var., Girty, 2038.
(Actinoconchus) McCoy, Hall and Clarke, 2261.
(Cleiothyris?) sp., Weller, 5994.
(Cleiothyris) King, Hall and Clarke, 2261, 2264.
(Seminula) McCoy, Hall and Clarke, 2261, 2264.
(Spirigerella) Waagen, Hall and Clarke, 2261, 2264.
Atlantosaurus, Marsh, 3701, 3702.
Atocus n. gen., Scudder, 4889.
defessus, Scudder, 4889.
Atops, subgen., Matthew, 3789.
trilineatus Emmons, Matthew, 3789.
Atresius lirus Gabb, Stanton, 5199.
Atrina argentea Conrad, Dall, 1272.
harrisii n. sp., Dall, 1272.
jacksoniana n. sp., Dall, 1272.
rigida Dillwyn, Dall, 1272.
serrata Sowerby, Dall, 1272.
(Argentea?) chipolana n. sp., Dall, 1272.
Atrypa Dalman, Grabau, 2086.
Atrypa Dalman, Hall and Clarke, 2261, 2264.
gregeri n. sp., Rowley, 4677a.
lati-corrugata n. sp., Foerste, 1835.
marginalis, Foerste, 1835.
missouriensis Miller, Girty, 2038.
occidentalis Hall, Keyes, 3062.
reticularis Linné, Girty, 2038.
reticularis (Linnæus), Grabau, 2086.
reticularis (Linnæus), Keyes, 3062.
spinosa Hall, Grabau, 2086.
(Gruenewaldtia) Tschernyschew, Hall and Clarke, 2261, 2264.
Atrypina Hall, Hall and Clarke, 2261, 2264.
clintoni, Hall and Clarke, 2268.
Attagenus sopitus n. sp., Scudder, 2900.
Aturia morrissi Michelloti, Hyatt, 2819.
vanuxemi, Whitfield, 6097.
zizac, Bronn., Hyatt, 2819.
Atys obscurata n. sp., Dall, 1269.
oedemata n. sp., Dall, 1269.
robustoides n. sp., Aldrich, 73.
robustoides?, Harris, 2310, 2316.
salina n. sp., Dall, 1269.
(Acrostemma) gracilis n. sp., Dall, 1269.
Aublysodon Leidy, Marsh, 3674.

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- Aucella Keyserling*, Stanton, 5199.
aviculæformis, Hyatt, 2818.
crassifolius Keyserling, Stanton, 5199.
elongata n. sp., Hyatt, 2818.
erringtoni, var. *arcuata*, Hyatt, 2818.
orbicularis, Hyatt, 2818.
piochii Gabb, Stauton, 5199.
Aucullæa (Idonearca) terminalis n. var. *recedens*, Cragin, 1116.
Aulacopella winnipegensis Rauff, Whiteaves, 6087.
Aulacorhynchus Dittmar, Hall and Clarke, 2261a, 2264.
Auletes wymani, Scudder, 4890.
Aulobaris anicilla, Scudder, 4890.
circumscripita, Scudder, 4890.
comminnuta, Scudder, 4890.
damnata, Scudder, 4890.
Aulocopella winnipegensis Rauff, 4549.
Aulocopina granti, Walker, 5820.
Aulocrinus agassizi, Springer, 5163.
Aulonotreta Kurtoga, Hall and Clarke, 2260.
Aulopora, Girty, 2032.
Aulopora Goldfuss, Grabau, 2086.
anna n. sp., Beede, 386.
geometrica n. sp., Girty, 2038.
gracilis n. sp., Keyes, 3061.
prosseri n. sp., Beede, 386.
cf. schoharie, Hall and Clarke, 971.
serpens Goldf., Grabau, 2086.
subtenuis Hall, Girty, 2034.
? trentonensis n. sp., Winchell and Schuchert, 6318.
tubæformis Goldf., Grabau, 2086.
Aulosteges von Helmersen, Hall and Clarke, 2260.
Auricula neumayri n. sp., White, 6035.
Austriella Bittner, Hall and Clarke, 2264.
Autodetus Lindström, Grabau, 2086.
becheri n. sp., Clarke, 942, 971.
lindströmi n. sp., Clarke, 942.
lindströmi Clarke, Grabau, 2086.
Avalonia acadica n. sp., Matthew, 3761.
Avellana bullata, Whitfield, 6097.
bullata Mort., Harris, 2315.
Avicula beedei n. sp., Logan, 3559.
belviderensis n. sp., Cragin, 1116.
belviderensis, Stanton, 5197.
dispar n. sp., Cragin, 1118.
gastrodes Meek, Herrick and Johnson, 2465.
gastrodes Meek, Logan, 3554.
gastrodes Meek, Stanton, 5191.
leveretti n. sp., Cragin, 1115.
leveretti, Stanton, 5197.
longa (Geinitz), Keyes, 3062.
macronotus Meek, Logan, 3559.
singleyi n. sp., Cragin, 1115.
strigosa (White), Weller, 6006.
whitfieldi, Foerste, 1835.
whiteavesi Stanton, Whiteaves, 6095.
wyomingensis n. sp., Stanton, 5206.
(Oxytoma) whiteavesi n. sp., Stanton, 5199.
sp., Harris, 2310, 2313.
Avicularium Gray, Dall, 1281.

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- Aviculopecten* McCoy, Grabau, 2086.
areolatus n. sp., Cooper [*Crenipecten*?], Lane, 3400.
batesvillensis n. sp., Weller, 5986.
cardoniferus (Stevens), Keyes, 3062.
caroli Win., Weller, 6006.
 (?) *equilatera*, Whitfield, 6099.
exacutus Hall, Grabau, 2086.
fasciculatus Keyes, Keyes, 3062.
germanus n. sp., Miller and Faber, 3994.
insignis Hall, Grabau, 2086.
 ? *interlineatus* Meek and Worthen, Keyes, 3062.
interlineatus, Whitfield, 6099.
lautus var. *ithacensis* n. var., Kindle, 3168.
magna (Swallow), Keyes, 3062.
occidentalis (Shumard), Girty, 2037.
occidentalis (Shumard), Keyes, 3062.
princeps (Conrad), Grabau, 2086.
retilaterarius Cox, Drake, 1539.
sculptilis n. sp., Miller, 3992.
tenuicostus Win., Weller, 6006.
 sp.?, Clarke, 971.
 ?, sp., Weller, 5986.
Aviculopinna americana Meek, Keyes, 3062.
Axinea lentiformis (?), Whitfield, 6101.
Axinella (?), Merrill, 3969.
Axophyllum rude White and St. John, Keyes, 3061.
Azygograptus (?) *walcotti* Lapworth n. sp., Gurley, 2217.
Bactrites, Clarke, 943.
Bactrites Sandberger, Clarke, 960.
Bactrites Sandberger, Grabau, 2086.
aciculum Hall (sp.), Clarke, 960.
aciculum (Hall), Grabau, 2086.
gracilior Clarke, Grabau, 2086.
gracilior n. sp., Clarke, 960.
Bactropora, Simpson, 4983.
Bectrynum Emmrich, Hall and Clarke, 2264.
Baculites Lam., Say, 4813.
anceps, Harris, 2315.
asper, Whitfield, 6097.
asper Morton?, Stanton, 5191.
chicoensis Trask, Whiteaves, 6084.
compressa, Say, 4813.
compressus, Whitfield, 6097.
gracilis Shumard?, Stanton, 5191.
nodosus var. *brevis* Meek, Logan, 3554.
ovata, Say, 4813.
ovatus Say, Logan, 3554.
ovatus, Whitfield, 6097.
Baiera incurvata Heer (?), Newberry, 4080.
muensteriana (Presl.) Heer?, Ward, 5857.
multifida Fontaine?, Ward, 5857.
Baieropsis adiantifolia Fontaine, Fontaine, 1850.
pluripartita Fontaine?, Fontaine, 1850.
Bairdia McCoy, Grabau, 2086.
leguminoides Ulrich, Grabau, 2086.
Balanidae, Cope, 1096.
Balanoptera sursiplana n. sp., Cope, 1096.
Balaninus anicularis, Scudder, 4890.
duttoni, Scudder, 4890.
femoratus, Scudder, 4890.

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Genera and species described—Continued.

- Balaninus flexirostris*, Scudder, 4890.
minusculus, Scudder, 4890.
restrictus, Scudder, 4890.
Balanophyllia annularis n. sp., Vaughan, 5735.
augustinensis n. sp., Vaughan, 5735.
caulifera (Conrad), Vaughan, 5735.
 var. *multigranosa* n. var., Vaughan, 5735.
desmophyllum Milne-Edwards and Haime, Vaughan, 5735.
 var. *microcostata* n. var., Vaughan, 5735.
elongata n. sp., Vaughan, 5735.
haleana (Milne-Edwards and Haime), Vaughan, 5735.
inauris n. sp., Vaughan, 5735.
irrorata (Conrad), Vaughan, 5735.
 var. *coniformis* n. var., Vaughan, 5735.
 var. *dichotoma* (Gabb and Horn), Vaughan, 5735.
 var. *mortoni* (Gabb and Horn), Vaughan, 5735.
ponderosa n. sp., Vaughan, 5735.
Balanus proetus, Whitfield, 6101.
Banksia pusilla Vel., Hollick, 2698.
Baptanodon discus, Marsh, 3695.
natans, Marsh, 3695.
Baptosaurus, Williston, 6245.
onchognathus, Williston, 6245.
Barbarothesa n. gen., Scudder, 4889.
florissanti, Scudder, 4889.
Barbatia cuculloides var., Harris, 2313, 2315.
marylandica, Whitfield, 6101.
miconema, Meek (sp.), Herrick and Johnson, 2465.
miconema (Meek), Stanton, 5191.
 (Acar) *reticulata* Gmelin, Dall, 1272.
 (Calloarca) *arcula* Heilprin, Dall, 1272.
candida Gmelin, Dall, 1272.
cuculoides Conrad, Dall, 1272.
irregularis n. sp., Dall, 1272.
marylandica Conrad, Dall, 1272.
phalacra n. sp., Dall, 1272.
 (Cucullaria) *aldrichi* n. sp., Dall, 1272.
tæniata n. sp., Dall, 1272.
 (Fossularca) *adamsi* (Shuttleworth) Smith, Dall, 1272.
ovalina n. sp., Dall, 1272.
 (Granoarca) *propatula* Conrad, Dall, 1272.
virginiae Wagner, Dall, 1272.
 (Striarca) *centenaria* Say, Dall, 1272.
Baris divisa, Scudder, 4890.
harlani, Scudder, 4890.
imperfecta, Scudder, 4890.
matura, Scudder, 4890.
Barnea (Leach MS.) Risso, Dall, 1272.
truncata Say, Dall, 1272.
 (Scobina) *arcuata* Conrad, Dall, 1272.
costata Linné, Dall, 1272.
Baropus lentus, n. gen. et sp., Marsh, 3686.
Barornis regens, Marsh, 3691.
Barrandella nom. propos., Hall and Clarke, 2261a, 2264.
areyi n. sp., Hall and Clarke, 2261a, 2263, 2268.

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- Barrandeoceras convolvans*, Hyatt, 2819.
elrodi, Hyatt, 2819.
minganense, Hyatt, 2819.
nator, Hyatt, 2819.
sacheri, Hyatt, 2819.
sternbergi, Hyatt, 2819.
subcostulatum nom. prov., Whiteaves, 6089.
tyrannum, Hyatt, 2819.
- Barrandeocrinus Angelin*, Wachsmuth and Springer, 5765a.
- Barrettia* Woodward, Whitfield, 6108.
multilirata n. sp., Whitfield, 6108.
sparcilirata n. sp., Whitfield, 6108.
- Barroisella* n. gen., Hall and Clarke, 2260.
- Barycrinus elrodi* n. sp., Miller and Gurley, 3999.
expansus n. sp., Miller and Gurley, 3997c.
formosus n. sp., Miller and Gurley, 3997a.
hoveyi (Hall), Keyes, 3061.
magnificus Meek and Worthen, Keyes, 3061.
neglectus n. sp., Miller and Gurley, 4000.
princeps n. sp., Miller and Gurley, 3991.
samsoni n. sp., Miller and Gurley, 4001.
sculptilis, Whitfield, 6098.
spurius (Hall), Keyes, 3061.
stellifer n. sp., Miller, 3995.
washingtonensis n. sp., Miller and Gurley, 3997d.
- Basilosaurus cetoides* (Owen), Lucas, 3588.
- Bathyriscus* Meek, Matthew, 3788.
- Bathyriscus* Meek?, Walcott, 5816.
howelli Walcott, Matthew, 3788.
pupa n. sp., Matthew, 3788.
senectus Billings sp., Matthew, 3776.
- Bathyrus ellipticus* n. s., Cleland, 1012.
extans Hall (sp.), 1847, Clarke, 952.
perkinsi n. sp., Whitfield, 6106.
schucherti n. sp., Clarke, 952.
spiniger Hall (sp.), 1847, Clarke, 952.
sp.?, Cleland, 1012.
- Batocrinus* Casseday, Wachsmuth and Springer, 5765a.
adamsensis n. sp., Miller and Gurley, 3999.
æquabilis n. sp., Miller and Gurley, 3997a.
æqualis (Hall), Keyes, 3061.
æqualis (Hall), Wachsmuth and Springer, 5765a.
æquibrachiatus var. *alatus*, Whitfield, 6098.
affinis n. sp., Miller and Gurley, 4001.
agnatus n. sp., Miller, 3992.
albersi n. sp., Miller and Gurley, 4001.
altiusculus n. sp., Miller and Gurley, 3997a.
approximatus n. sp., Miller and Gurley, 4001.
arcula n. sp., Miller and Gurley, 3997d.
argutus n. sp., Miller and Gurley, 3999, 4001.
asper n. sp., Miller and Gurley, 3999.
asperatus n. sp., Miller and Gurley, 3999.
aspratilis n. sp., Miller and Gurley, 3997a.
basilicus n. sp., Miller and Gurley, 3999.

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- Batocrinus bisbrachiatus* n. sp., Whitfield, 6098.
blairi n. sp., Miller, 3995.
boonvillensis n. sp., Miller, 3992.
brittsi n. sp., Miller, 3995.
broadheadi n. sp., Miller and Gurley, 3998.
burketi n. sp., Miller and Gurley, 3997d.
calvini Rowley, Keyes, 3061.
calvini Rowley, Wachsmuth and Springer, 5765a.
cantonensis M. and G., Wachsmuth and Springer, 5765a.
cantonensis n. sp., Miller and Gurley, 3991.
casualis n. sp., Miller and Gurley, 3997d.
casula n. sp., Miller and Gurley, 3997d.
cistula n. sp., Miller and Gurley, 3999.
clypeatus (Hall), Wachsmuth and Springer, 5765a.
cognatus n. sp., Miller and Gurley, 4001.
comparilis n. sp., Miller, 3995.
complanatus n. sp., Miller and Gurley, 4001.
consanguineus n. sp., Miller and Gurley, 4001.
copiosus n. sp., Miller and Gurley, 3997c.
crawfordsvillensis n. sp., Miller, 3992.
curiosus n. sp., Miller and Gurley, 3997d.
decorus n. sp., Miller, 3992.
decrepitus n. sp., Miller, 3995.
delicatulus n. sp., Miller and Gurley, 4000.
discoideus, Whitfield, 6098.
divalis n. sp., Miller, 3995.
douglassi n. sp., Miller and Gurley, 4008.
enodatus n. sp., Miller and Gurley, 4001.
enodis n. sp., Miller and Gurley, 4001.
faberi n. sp., Miller and Gurley, 4000.
facetus n. sp., Miller and Gurley, 3991.
folliculus n. sp., Miller and Gurley, 3999.
formaceus n. sp., Miller and Gurley, 3998.
genista n. sp., Miller and Gurley, 3991.
germanus, n. sp., Miller and Gurley, 3999.
glaber n. sp., Miller and Gurley, 4001.
gorbyi n. sp., Miller, 3992.
grandis (Lyon), Wachsmuth and Springer, 5765a.
gurleyi n. sp., Miller, 3992.
heteroclitus n. sp., Miller and Gurley, 3998.
hodgsoni n. sp., Miller and Gurley, 3999.
honorabilis n. sp., Miller and Gurley, 3997d.
icosidactylus Casseday, Miller, 3995.
icosidactylus Casseday, Wachsmuth and Springer, 5765a.
inconsuetus n. sp., Miller and Gurley, 3998.
incultus n. sp., Miller and Gurley, 3998.
ignotus n. sp., Miller and Gurley, 3998.
imparilis n. sp., Miller and Gurley, 3998.
inopinatus n. sp., Miller and Gurley, 3998.
inornatus, Whitfield, 6098.
insolens n. sp., Miller and Gurley, 4001.
insperatus n. sp., Miller and Gurley, 3998.
insuetus n. sp., Miller and Gurley, 3998.
irregularis Casseday, Miller, 3995.
irregularis Casseday, Wachsmuth and Springer, 5765a.

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- Batocrinus jessieæ* n. sp., Miller and Gurley, 3999.
jucundus n. sp., Miller and Gurley, 3991.
labellum n. sp., Miller and Gurley, 3997d.
laciniosus n. sp., Miller and Gurley, 3997d.
lætus n. sp., Miller and Gurley, 3997a.
laterna n. sp., Miller and Gurley, 3997d.
laura (Hall), Keyes, 3061.
laura (Hall), Wachsmuth and Springer, 5765a.
laura, var. *sinuosus* (Hall), Wachsmuth and Springer, 5765a.
laura, Whitfield, 6098.
legrandensis n. sp., Miller and Gurley, 3991.
lepidus (Hall), Wachsmuth and Springer, 5765a.
lepidus, Whitfield, 6098.
levigatus n. sp., Miller and Gurley, 4001.
levis n. sp., Miller and Gurley, 4001.
longirostris (Hall), Keyes, 3061.
lyonanus n. sp., Miller and Gurley, 3997a.
macbridei W. and Sp., Wachsmuth and Springer, 5765a.
marinus n. sp., Miller and Gurley, 3991.
mediocris n. sp., Miller, 3992.
modestus n. sp., Miller and Gurley, 3998.
modulus n. sp., Miller and Gurley, 3999.
mundulus (Hall), Wachsmuth and Springer, 5765a.
nanus n. sp., Miller and Gurley, 3999.
nashvillæ (Troost), Keyes, 3061.
niteus n. sp., Miller and Gurley, 4000.
nitidulus n. sp., Miller and Gurley, 3998.
nodolus n. sp., Miller and Gurley, 4000.
nodosarius n. sp., Miller and Gurley, 4001.
nodosus n. sp., Miller and Gurley, 4000.
oblatus, Whitfield, 6098.
parilis n. sp., Miller and Gurley, 4000.
peculiaris n. sp., Miller and Gurley, 3998.
pettisensis n. sp., Miller and Gurley, 4000.
pileus n. sp., Miller and Gurley, 3997d.
pistillus (M. and W.), Wachsmuth and Springer, 5765a.
planus n. sp., Miller and Gurley, 3998.
poculum Miller and Gurley, Wachsmuth and Springer, 5765a.
poculum n. sp., Miller and Gurley, 3991.
politus n. sp., Miller and Gurley, 4001.
polydactylus n. sp., Miller and Gurley, 3998.
procerus n. sp., Miller and Gurley, 3998.
prodigialis n. sp., Miller and Gurley, 3998.
proximus n. sp., Miller and Gurley, 3999.
pulchellus n. sp., Miller, 3992.
pyriformis (Shumard), Keyes, 3061.
quassilus (Meek and Worth), Wachsmuth and Springer, 5765a.
regalis n. sp., Miller and Gurley, 4000.
reliquus n. sp., Miller and Gurley, 4003.
remotus n. sp., Miller and Gurley, 4001.
reptus n. sp., Miller and Gurley, 4001.
repositus n. sp., Miller and Gurley, 4001.
reservatus n. sp., Miller and Gurley, 4003.
rotadentatus Rowley and Hare, Wachsmuth and Springer, 5765a.

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Genera and species described—Continued.

- Batocrinus rotuliformis* n. sp., Miller and Gurley, 4003.
rotundus (Yandell and Shumard), Keyes, 3061.
rudis n. sp., Miller and Gurley, 4001.
rusticellus n. sp., Miller and Gurley, 4003.
 (?) *rusticus* n. sp., Miller and Gurley, 4003.
sacculus n. sp., Miller and Gurley, 4001.
sacculus n. sp., Miller and Gurley, 3997c.
sagetownensis n. sp., Miller and Gurley, 4001.
salemensis n. sp., Miller and Gurley, 4001.
sampsoni n. sp., Miller and Gurley, 3998.
scitulus n. sp., Miller and Gurley, 4003.
scopæ n. sp., Miller and Gurley, 3991.
scyphus n. sp., Miller and Gurley, 3997a.
sedaliensis n. sp., Miller and Gurley, 4001.
selectus n. sp., Miller and Gurley, 4001.
senex n. sp., Miller and Gurley, 4003.
serratus n. sp., Miller and Gurley, 3998.
sharonensis n. sp., Miller and Gurley, 4003.
shepardi n. sp., Rowley, 4673.
signatus n. sp., Miller and Gurley, 4000.
solitarius n. sp., Miller and Gurley, 3999.
spartarius n. sp., Miller and Gurley, 3991.
speciosus n. sp., Miller and Gurley, 4001.
spergenensis n. sp., Miller, 3992.
spinosus n. sp., Miller and Gurley, 3997d.
 (?) *springeri* n. sp., Rowley, 4677.
spurius n. sp., Miller and Gurley, 4000.
stelliformis n. sp., Miller and Gurley, 4000.
strenuus n. sp., Miller and Gurley, 4000.
subæqualis (McChesney), Wachsmuth and Springer, 5765a.
subæquatus n. sp., Miller and Gurley, 4001.
sublevis n. sp., Miller and Gurley, 4001.
subovatus n. sp., Miller and Gurley, 4001.
subrotundus n. sp., Miller and Gurley, 4001.
subscitulus n. sp., Miller and Gurley, 4001.
trobiscus, Meek and Worthen, Keyes, 3061.
tuberculatus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
turbinatus (Hall), Wachsmuth and Springer, 5765a.
turbinatus, var. *elegans* Hall, Wachsmuth and Springer, 5765a.
variabilis n. sp., Miller and Gurley, 4001.
venustulus n. sp., Miller and Gurley, 3998.
venustus n. sp., Miller, 3992.
veterator n. sp., Miller and Gurley, 3998.
vetustus n. sp., Miller and Gurley, 3998.
vicinus n. sp., Miller and Gurley, 3998.
wetherbyi, Miller and Gurley, 3997d.
Batodon tenuis n. gen. et sp., Marsh, 3671.
Batostoma, Simpson, 4983.
Batostoma Ulrich, Ulrich, 5537.
 ? *decipiens* n. sp., Ulrich, 5537.
fertile Ulrich, Ulrich, 5537.
humile n. sp., Ulrich, 5537.
magnopora n. sp., Ulrich, 5537.
minnesotense n. sp., Ulrich, 5537.
montuosum n. sp., Ulrich, 5537.
varium n. sp., Ulrich, 5537.
winchelli Ulrich, Ulrich, 5537.

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- Bauhinia cretacea* Newb., Newberry, 4080.
 (?) *gigantea* n. sp., Newberry, 4080.
Beatricea, James, 2881.
 nodulosa James, 2881.
 undulata James, 2881.
Beecheria Hall, Hall and Clarke, 2264.
 Davidsoni, Hall and Clarke, 2261a, 2268.
Belanus balanoides, Beecher, 366.
Belemnacanthus giganteus n. sp., Eastman, 1601.
Belemnitella americana, Whitfield, 6097.
 baculus n. sp., Logan, 3554.
Belemnites (?) *ambiguus*, Whitfield, 6097.
 assimilis n. sp., Whiteaves, 6095a.
 curtus n. sp., Logan, 3559.
 densus Meek, Logan, 3559.
 densus, Marsh, 3695.
 impressus Gabb, Stanton, 5199.
 af. obeliscus Phillips, Aguilera, 57.
 pacificus, Hyatt, 2818.
 af. puzosi d'Orbigny, Aguilera, 57.
 tehamaensis n. sp., Stanton, 5199.
Belemnocrinus? sampsoni Miller, Keyes, 3061.
 sp.?, Aguilera, 57.
 sp., Stanton, 5199.
Belemnocystites n. gen., Miller and Gurley, 3997c.
 wetherbyi n. sp., Miller and Gurley, 3997c.
Bellerophon Montfort, Grabau, 2086.
Bellerophon (sensu stricto), Girty, 2037.
Bellerophon Montfort, Ulrich and Scofield, 5541.
 alternodosus, Whitfield, 6099.
 barquensis, Lane, 3400.
 bellus n. sp., Keyes, 3062.
 bilabiatus W. & W., Weller, 6006.
 bilabiatus White and Worthen, Keyes, 3062.
 bilineatus n. sp., Ulrich and Scofield, 5541.
 bilobatus? Sowerby, Keyes, 3062.
 blairi n. sp., Miller and Gurley, 4002.
 branneri n. sp., Weller, 5986.
 calcifer, n. sp., Cleland, 1012.
 capax n. sp., Ulrich and Scofield, 5541.
 cincinnatiensis n. sp., Miller and Faber, 3996.
 clausus n. sp., Ulrich and Scofield, 5541.
 crassus Meek and Worthen, Keyes, 3062.
 galericulatus, Win., Lane, 3400.
 globularis, n. sp., Miller and Faber, 3996.
 gorbyi n. sp., Miller, 3992.
 ithacensis n. sp., Kindie, 3168.
 leda Hall, Grabau, 2086.
 marcouanus Geinitz, Keyes, 3062.
 meekianus Swallow, Keyes, 3062.
 mohri Miller, Ulrich and Scofield, 5541.
 montfortianus Norwood and Pratten, Keyes, 3062.
 morganianus, Hartt and Rathbun, Clarke, 976.
 nodocarinatus Hall, Keyes, 3062.
 panneus White, Keyes, 3062.
 panneus White?, Weller, 6006.
 patulus Hall, Grabau, 2086.
 pelops (?) Hall, var., Whiteaves, 6074.

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- Bellerophon percarinatus* Conrad, Keyes, 3062.
 platystoma Meek and Worthen, Ulrich and Scofield, 5541.
 recurvus n. sp., Ulrich and Scofield, 5541.
 sedaliensis n. sp., Miller and Gurley, 4002.
 similis n. sp., Ulrich and Scofield, 5541.
 steltzneri n. sp., Clarke, 976.
 stevensianus McChesney, Keyes, 3062.
 subangularis n. sp., Ulrich and Scofield, 5541.
 subglobulus n. sp., Ulrich and Scofield, 5541.
 sublaevis Hall, Keyes, 3062.
 sublaevis Hall, Weller, 5986.
 sublaevis (?), Whitfield, 6099.
 subovatus n. sp., Cleland, 1012.
 troosti (d'Orbigny) Safford, Ulrich and Scofield, 5541.
 var. *burginensis* n. var., Ulrich and Scofield, 5541.
 urii Fleming, Keyes, 3062.
 vinculatus W. & W., Weller, 6006.
 (*Bucania*) *opertus* n. sp., Foerste, 1835.
 sp.?, Clarke, 971.
 sp., Girty, 2039.
Bellerophon Montfort, Ulrich and Scofield, 5541.
Bellinurus grandævus Jones & Woodw., Jones and Woodward, 2937.
Beloceras Hyatt, Clarke, 960.
 lynx n. sp., Clarke, 960.
 (?) *napelesense* n. sp., Clarke, 960.
Belodon, Case, 768.
 superciliosus Cope n. sp., Cope, 1087.
Beltina n. gen., Walcott, 5815.
 danai n. sp., Walcott, 5815.
Beluga catodon, Dawson, 1449.
Bembidium glaciatus, Scudder, 4896.
 obductum n. sp., Scudder, 4900.
 multulorum n. sp., Scudder, 4900.
Benthonella turbinata n. sp., Guppy and Dall, 2214.
Benzoin dilleri n. sp., Knowlton, 3262.
Berberis simplex Newb., Newberry, 4083.
Berenicea, Simpson, 4983.
Berenicea Lamouroux, Ulrich, 5537.
 minnesotensis Ulrich, Ulrich, 5537.
Bergeronia n. sub gen., Matthew, 3761.
 articephala Matthew, 3761.
 elegans W. D. Matthew, Matthew, 3761.
Bernissartia, Case, 768.
Beryx? Cuvier, Stewart, 5240.
 multidentatus n. sp., Stewart, 5240.
 polymicrodus n. sp., Stewart, 5240.
Betula, Knowlton, 3246.
 aequalis? Lx., Knowlton, 3246.
 alaskana Lesquereux, Knowlton, 3230.
 angustifolia Newb., Newberry, 4083.
 heterodonta Newb., Newberry, 4083.
 iddingsi n. sp., Knowlton, 3255.
 perantiqua Dn., Dawson, 1436.
 sp.? Newberry, 4083.
Betulites Heer, Lesquereux, 3470.
 populifolius n. sp., Lesquereux, 3470.

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- Betulites rugosus* n. sp., Lesquereux, 3470.
snowii n. sp., Lesquereux, 3470.
westii n. sp., Lesquereux, 3470.
var. crassus, Lesquereux, 3470.
cuneatus, Lesquereux, 3470.
grewlopsideus, Lesquereux, 3470.
inaequilaterialis, Lesquereux, 3470.
lanceolatus, Lesquereux, 3470.
latifolius, Lesquereux, 3470.
multinervis, Lesquereux, 3470.
oblongus, Lesquereux, 3470.
obtusus, Lesquereux, 3470.
populoides, Lesquereux, 3470.
quadratifolius, Lesquereux, 3470.
reniformis, Lesquereux, 3470.
rhomboidalis, Lesquereux, 3470.
rotundatus, Lesquereux, 3470.
subintegrifolius, Lesquereux, 3470.
Beyrichia McCoy, Grabau, 2086.
Beyrichia McCoy, Ulrich, 5540.
hamiltonensis Jones, Grabau, 2086.
hammelli n. sp., Miller and Faber, 3997.
initialis n. sp., Ulrich, 5540.
nova scotica, Dawson, 1454.
 (?) *primæva* n. sp., Matthew, 3781.
tricollina Ulrich, Grabau, 2086.
Beyrichona, Matthew, 3761.
ovata n. sp., Matthew, 3761.
papilio, Matthew, 3761.
planata n. sp., Matthew, 3761.
rotundata n. sp., Matthew, 3761.
tinea Matt., Matthew, 3751. 3761.
triangula n. sp., Matthew, 3761.
Biflustra brownii n. sp., Cragin, 1115.
Billingsella n. gen., Hall and Clarke, 2260.
coloradoensis Shumard, Walcott, 5816.
Bilobites Linné. Hall and Clarke, 2260.
Bison, Middleton and Moore, 3981.
alaskensis Rhoads, Rhoads, 4584.
alleni Marsh, Lucas, 3586.
alleni Marsh, Rhoads, 4586.
antiquus Leidy, Lucas, 3586.
antiquus Leidy, Rhoads, 4586.
appalachicolus n. sp., Rhoads, 4584.
bison (Linnaeus), Lucas, 3586.
crassicornis Richardson, Lucas, 3586.
ferox Marsh, Lucas, 3586.
latifrons Blake, 476.
latifrons (Harlan), Lucas, 3586.
latifrons (Harlan), Rhoads, 4586.
occidentalis Lucas, Lucas, 3886, 3587.
scaphoceras (Cope), Rhoads, 4586.
sp. ?, Rhoads, 4586.
Bittium annettæ n. sp., Dall, 1259.
chipolanum n. sp., Dall, 1259.
var. burnsi Dall, Dall, 1258.
cossmannii n. sp., Dall, 1259.
galvestonense n. sp., Harris, 2309.
longissimum n. sp., Cooper, 1071.
permutabile n. sp., Dall, 1259.
podagrimum n. sp., Dall, 1259.
 (Diastoma?) *variem* Pfeiffer, Dall, 1259.
 (Styliferina) *præformatum* n. sp., Guffy and Dall, 2214.
 (Styliferina?) *adamsi*, Dall, 1259.

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- Bittium* (Styliferina?) *boioplex* n. sp., Dall., 1259.
cerithioides Dall, Dall, 1259.
priscum Dall, Dall, 1259.
Bittnerula n. gen., Hall and Clarke, 2264.
Blairella n. gen., Miller and Gurley, 4002.
sedaliensis n. sp., Miller and Gurley, 4002.
Blairocrinus arrosus n. sp., Miller, 3995.
bullatus n. sp., Miller, 3995.
spinosulus n. sp., Miller and Gurley, 3997a.
trijugis n. gen. et sp., Miller, 3992.
Blarina simplicidens Cope, Cope, 1104.
Blastomeryx gemmifer Cope, Cope, 1087.
Blattina sp., Scudder, 4898.
Bledius fæcorum n. sp., Scudder, 4900.
glaciatus, Scudder, 4898.
morsei n. sp., Scudder, 4900.
osborni n. sp., Scudder, 4900.
primitiarum n. sp., Scudder, 4900.
soli n. sp., Scudder, 4900.
Blothrophyllum bellicinctum n. sp., Greene, 2162c.
bucculentum n. sp., Greene, 2162b.
cingulatum n. sp., Greene, 2162a.
conigerum n. sp., Greene, 2162b.
flexuosum n. sp., Greene, 2162a.
incultum n. sp., Greene, 2162b.
Bodmania n. gen., Miller and Faber, 3996.
insuctum n. sp., Miller and Faber, 3996.
Bohemillia stufenda, Beecher, 371.
Boletobius durabilis n. sp., Scudder, 4900.
funditus n. sp., Scudder, 4900.
lyelli n. sp., Scudder, 4900.
stygis n. sp., Scudder, 4900.
Bolivina ænariensis (Costa), Chapman, 870.
dilatata Reuss, Chapman, 870.
dilatata Reuss, var. *angusta* Egger, Chapman, 870.
dilatata Reuss, Woodward and Thomas 6433.
punctata d'Orbigny, Bagg, 150.
punctata d'Orbigny, Woodward and Thomas, 6433.
textilaroides Reuss, Bagg, 150.
Bollia Jones and Holl, Ulrich, 5540.
lata Vanuxem (Conrad), var. *Brasiliensis*, n. var., Clarke, 976.
unguloidea n. sp., Ulrich, 5540.
subæquata n. sp., Ulrich, 5540.
Bornia Philippi, Dall, 1281.
dodona n. sp., Dall, 1281.
floridana n. sp., Dall, 1281.
hoica, Dall, 1281.
macroides Conrad, Dall, 1281.
mazyekii Dall, 1281.
plectopygia n. sp., Dall., 1281.
rota n. sp., Dall, 1281.
scintillata n. sp., Dall, 1281.
triangula n. sp., Dall, 1281.
Borophagus diversidens Cope, Cope, 1087.
Borsonia ludoviciana n. sp., Vaughan, 5722.
planta Har. and Ald., Aldrich, 73.
(Scobinella) conradiana n. sp., Aldrich, 73.
sp., Aldrich, 73.

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- Bos, Blake, 475.
 arizonica, Blake, 476.
 cramptonus n. sp., Cope, 1095.
 scaphoceras n. sp., Cope, 1095.
 Bothriolepis leidyi Newb. (?), Eastman, 1605.
 minor Newb., Cope, 1082.
 minor Newb., Eastman, 1605.
 Bothrodendron arborescens (Lx.), White, 6052.
 Botriopygus alabamensis Clark, Clark, 892.
 Botryllopora, Simpson, 1983.
 Botryllopora Nicholson, Grabau, 2086.
 socialis Nicholson, Grabau, 2086.
 Botryocrinus Angelin, Weller, 6002.
 polyxo Hall, Weller, 6002.
 Botryodictya n. gen., Hall and Clarke, 2269, 2270.
 ramosa (sp.), Hall and Clarke, 2269, 2270.
 Bouchardia Davidson, Hall and Clarke, 2264.
 Bourgueticrinus alabamensis de Loriol, Clark, 892.
 Brachiocrinus nodosarius, Bather, 294.
 Brachiopoda, Beecher.
 Brachiopoda Schuchert, 4845.
 Brachiospongia, James, 2881.
 digitata, James, 2881.
 digitata, Rauff, 4548.
 Brachymetopus arnatus, Vogdes, 5755.
 Brachynus newberryi n. sp., Scudder, 4900.
 repressus n. sp., Scudder, 4900.
 Brachyphyllum crassum n. sp., Lesquereux, 3470.
 crassum Lesq., Newberry, 4089.
 macrocarpum Newb., Knowlton, 3264.
 texense n. sp., Fontaine, 1846, 1847.
 yorkense Fontaine n. sp., Ward, 5857.
 Brachyprion majus n. sp., Clarke, 971.
 schuchertanum, n. sp., Clarke, 971.
 Brachysaurus n. gen., Williston, 6236, 6245.
 overtoni Williston, Williston, 6236, 6245.
 Brachysphingus liratus Gabb, Stanton, 5198.
 Branchiosaurus, Case, 767.
 Branchipus stagnalis, Beecher, 366.
 Branta propinqua n. sp., Shufeldt, 4960.
 Brasenía (?) antiqua Newb., Newberry, 4083.
 Brittsia n. gen., White, 6050.
 problematica n. sp., White, 6050.
 Bromelis? tenuifolia n. sp., Lesquereux, 3470.
 Bronteus lunatus Billings, 1854, Clarke, 952.
 manitobensis n. sp., Whiteaves, 6096.
 senescens Clarke, Clarke, 959.
 Brontichthys, clarki n. gen., Claypole, 994.
 Brontosaurus, Case, 768.
 Marsh, 3701, 3702.
 Osborn, 4218.
 Brooksellia n. gen., Walcott, 5805, 5811.
 alternata n. sp., Walcott, 5805, 5811.
 confusa n. sp., Walcott, 5805, 5811.
 Bryograptus lentus n. sp., Matthew, G. F., 3762.
 multiramosus n. sp., Gurley, 2217.
 patens n. sp., Matthew, 3746.
 patens Matt., Matthew, G. F., 3762.
 ? retroflexus ? Brögger, Matthew, G. F., 3762.
 spinosus Matt., Matthew, G. F., 3762.

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- Bucanella Meek, Ulrich and Scofield, 5541.
 Bucania Hall, Ulrich and Scofield, 5541.
 champplainensis n. sp., Whitfield, 6106.
 crassa, n. sp., Ulrich and Scofield, 5541.
 elliptica n. sp., Ulrich and Scofield, 5541.
 emmonsii n. sp., Ulrich and Scofield, 5541.
 frankfortensis n. sp., Ulrich and Scofield, 5541.
 freitasi n. sp., Clarke, 976.
 halli n. sp., Ulrich and Scofield, 5541.
 lindsleyi Safford, Ulrich and Scofield, 5541.
 micronema n. sp., Ulrich and Scofield, 5541.
 minnesotensis n. sp., Ulrich and Scofield, 5541.
 nana n. sp., Ulrich and Scofield, 5541.
 var. subpatula n. var., Ulrich and Scofield, 5541.
 nashvillensis n. sp., Ulrich and Scofield, 5541.
 peracuta n. sp., Ulrich and Scofield, 5541.
 punctifrons Emmons, Ulrich and Scofield, 5541.
 rugatina n. sp., Ulrich and Scofield, 5541.
 simulatrix n. sp., Ulrich and Scofield, 5541.
 singularis n. sp., Ulrich and Scofield, 5541.
 subangulata n. sp., Ulrich and Scofield, 5541.
 subulata n. sp., Ulrich and Scofield, 5541.
 ? sp., Weller, 5994.
 Bucaniella continhoana, Hartt and Rathbun (sp.), Clarke, 976.
 reissi, n. sp., Clarke, 976.
 trilobata, Conrad, Var. Vira-Mundo, n. var., Clarke, 976.
 Bucanopsis n. gen., Ulrich and Scofield, 5541.
 Bucanopsis Girty, 2037.
 carinifera n. sp., Ulrich and Scofield, 5541.
 deflectus n. sp., Weller, 6006.
 Buccinanops ellipticum Whitf., Harris, 2315, 2316.
 variabilis n. sp., Whitfield, 6101.
 Buccinatrix n. gen., Cragin, 1115.
 regina, Cragin, 1115.
 Buccinopsis(?) medialis (Conrad), Hill, 2539.
 Buccinum porcinum, Say, 4813.
 Buchiceras inaequiplicatus Shumard, Cragin, 1115.
 swallowi, Shumard, Herrick and Johnson, 2465.
 var. pueroensis, n. var., Herrick and Johnson, 2465.
 swallowi Shumard, Cragin, 1115.
 swallowi Shumard (sp.), Stanton, 5191.
 Bulimina aculeata, Bagg, 148.
 affinis d'Orbigny, Chapman, 870.
 affinis d'Orbigny, Woodward and Thomas, 6433.
 buchiana, Bagg, 148.
 buchiana d'Orbigny, Chapman, 870.
 elegans d'Orbigny, Chapman, 870.
 elegantissima d'Orbigny, Chapman, 870.
 elongata, Bagg, 148.
 elongata, d'Orbigny, Chapman, 870.

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- Bulimina* pupoides d'Orbigny, Woodward and Thomas, 6433.
puschi Reuss, Bagg, 150.
variabilis d'Orbigny, Bagg, 150.
Bulimorpha Whitfield, Keyes, 3062.
bulimiformis (Hall), Keyes, 3062.
inornata (Meek and Worthen), Keyes, 3062.
Bulimulus Leach, Dall, 1259.
floridanus Conrad (sp.), Dall, 1259.
heilprinaianus n. sp., Dall, 1259.
stearnsii Dall, Dall, 1259.
(? *Anctus*) americanus Dall, Dall, 1259.
Bulla assimolata n. sp., Cooper, 1071.
conica n. sp., Whitfield, 6097.
mortoni, Whitfield, 6097.
striata Brug, var. attenuata Dall, Dall, 1259.
Bullia buccinoides n. sp., Merriam, 3923, 3929.
Bullina leai n. sp., Aldrich, 73.
(*Abderospira*) chipolana n. sp., Dall, 1269.
Bullinella jacksonensis var. exta, n. var., Harris, 2305.
Bulliopsis choctavensis Ald., Harris, 2316.
Bumastus orbicaudatus Billings (sp.), 1859, Clarke, 952.
trentonensis Emmons (sp.), 1842, Clarke, 952.
Bumelis? rhomboidea n. sp., Lesquereux, 3470.
Bunomeryx montanus n. gen. et sp., Wortman, 6493.
Bunomeryx Wortman, Scott, 4884.
elegans, n. sp., Wortman, 6493.
Buprestis saxigena, Scudder, 4896.
sepulta, Scudder, 4896.
tertiaria, Scudder, 4896.
Busycon carica, Whitfield, 6101.
scalarispira, Whitfield, 6101.
Buthograptus latus, Whitfield, 6102.
Buthotrephis pergracilis Dawson, Dawson, 1452.
Byronia, n. gen., Matthew, 3788.
annulata, n. sp., Matthew, 3788.
Byrrhus ottawaensis, Scudder, 4896.
romingeri n. sp., Scudder, 4900.
Byssonychia n. gen., Ulrich, 5539.
acutirostris n. sp., Ulrich, 5535.
alveolata n. sp., Ulrich, 5535.
bynesi n. sp., Ulrich, 5535.
cultrata, Ulrich, 5535.
grandis n. sp., Ulrich, 5535.
imbricata n. sp., Ulrich, 5535.
intermedia Meek and Worthen, Ulrich, 5539.
obesa n. sp., Ulrich, 5535.
præcurva n. sp. or var., Ulrich, 5535.
richmondensis n. sp., Ulrich, 5535.
subrecta n. sp., Ulrich, 5535.
tenuistriata n. sp., Ulrich, 5539.
vera n. sp., Ulrich, 5535.
Bythinella latensis n. sp., White, 6036.
Bythocypris Brady, Ulrich, 5540.
cylindrica Hall, Ulrich, 5540.
(?) curta n. sp., Ulrich, 5540.
granti n. sp., Ulrich, 5540.
(?) robusta n. sp., Ulrich, 5540.

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- Bythopora*, Simpson, 4983.
Bythopora Miller and Dyer, Ulrich, 5537.
alcicornis n. sp., Ulrich, 5537.
hericki Ulrich, Ulrich, 5537.
Bythotrypa, n. gen., Ulrich, 5537.
laxata, Ulrich, Ulrich, 5537.
Cabomba (?) gracilis Newb., Newberry, 4083.
inermis (Newb.) Hollick, Newberry, 4083.
Cactocrinus W. and Sp. (nov. gen.), Wachsmuth and Springer, 5765a.
arnoldi W. and Sp., Wachsmuth and Springer, 5765a.
clarus Hall, Wachsmuth and Springer, 5765a.
cœlatus Hall, Wachsmuth and Springer, 5765a.
cœlatus var. spinotentaculus Hall, Wachsmuth and Springer, 5765a.
denticulatus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
ectypus Meek and Worthen, Wachsmuth and Springer, 5765a.
extensus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
fossatus S. A. Miller, Wachsmuth and Springer, 5765a.
glans Hall, Wachsmuth and Springer, 5765a.
limabrachiatus (Hall), Wachsmuth and Springer, 5765a.
longus (Meek and Worthen), Wachsmuth and Springer, 5765a.
lucina (Hall), Wachsmuth and Springer, 5765a.
multibrachiatus Hall, Wachsmuth and Springer, 5765a.
nodobrachiatus W. and Sp., Wachsmuth and Springer, 5765a.
obesus Keyes (MS.), Wachsmuth and Springer, 5765a.
opusculus (Hall), Wachsmuth and Springer, 5765a.
ornatissimus W. and Sp., Wachsmuth and Springer, 5765a.
proboscidalis (Hall), Wachsmuth and Springer, 5765a.
reticulatus (Hall), Wachsmuth and Springer, 5765a.
reticulatus, var. ovatus (Hall), Wachsmuth and Springer, 5765a.
sexarmatus (Hall), Wachsmuth and Springer, 5765a.
thalia (Hall), Wachsmuth and Springer, 5765a.
thetis Hall, Wachsmuth and Springer, 5765a.
Cadulus abruptus Ald. and M., Harris, 2316.
bellulus n. sp., Clark, 118, 904.
floridanus n. sp., Dall, 1259.
parianus n. sp., Guppy and Dall, 2214.
turgidus, Harris, 2310.
Cæcella Gray, Dall, 1272.
Cæcum carolinianum n. sp., Dall, 1259.
coronellum n. sp., Dall, 1259.
floridanum Stimpson, Dall, 1259.

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- Cæcum floridanum* var. *compactum* Dall, 1259.
solitarium Meyer, Dall, 1259.
tortile n. sp., Dall, 1259.
(tortile var. ?) *ibex* n. sp., Dall, 1259.
Cælenterates, Chapman, 867.
Cæsalpina cookiana Hollick n. sp., Newberry, 4080.
Calamites Suckow, White, 6050.
cannæformis Schloth., White, 6049.
cistii Brongn., White, 6050.
ramosis Artis, White, 6050.
(Eucalamites) ramosus Artis, White, 6040.
Calamocrinus diomedæ, Agassiz, 46.
Calamodendron approximatum (Schloth.) Brongn., White, 6049.
Calamodon Cope, Wortman, 6492.
Calamostachys ovalis Lx. ?, White, 6050.
Calandrites n. gen., Scudder, 4890.
cineratus, Scudder, 4890.
defussus, Scudder, 4890.
Calapoecia, James, 2881.
Calapoecia Billings, Lambe, 3374.
borealis n. sp., Whitfield, 6112.
canadensis Billings, Lambe, 3374.
canadensis, Billings, Whiteaves, 6087.
cribriformis, James, 2881.
Calathospongia n. gen., Hall and Clarke, 2269, 2271.
amphorina n. sp., Hall and Clarke, 2269, 2271.
carceralis n. sp., Hall and Clarke, 2269, 2271.
carlin n. sp., Hall and Clarke, 2269, 2271.
(?) magnifica n. sp., Hall and Clarke, 2269, 2271.
redfieldi Hall (sp.), Hall and Clarke, 2269, 2271.
(?) sacculus Hall (sp.), Hall and Clarke, 2269, 2271.
tiffanyi n. sp., Hall and Clarke, 2269, 2271.
Calceocrinus indianensis n. sp., Miller, 3992.
kentuckiensis n. sp., Miller and Gurley, 3997c.
tunicatus (Hall) Keyes, 3061.
ventricosus (Hall), Keyes, 3061.
Calocytes diospyriformis n. sp., Newberry, 4080.
parvus n. sp., Newberry, 4080.
polysepala, Newb., Newberry, 4083.
Callianassa whiteavesii n. sp., Woodward, 6440, 6442.
Callicrinus, Weller, 5984, 6002.
beachleri n. sp., Wachsmuth and Springer, 5765.
bifurcatus n. sp., Weller, 6002.
bilobus, Weller, 6002.
cornutus (Hall), Weller, 6002.
corrugatus, Weller, 6002.
desideratus n. sp., Weller, 6002.
digitatus, Weller, 6002.
hydei, Weller, 6002.
longispinus n. sp., Weller, 6002.
pentangularis n. sp., Weller, 6002.
Calliostoma aphelium n. sp., Dall, 1259.

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- Calliostoma cyclus* n. sp., Dall, 1259.
eboreum Wagner, Dall, 1259.
(eboreum Wagner var. ?) *wagneri* Dall, 1259.
(erosum) n. sp., Dall, 1259.
exile n. sp., Dall, 1259.
grammaticum n. sp., Dall, 1259.
harrissi n. sp., Dall, 1259.
kempiana n. sp., Cooper, 1071.
labrosum Conrad, Dall, 1259.
lignitica n. sp., Cooper, 1072.
metrium n. sp., Dall, 1259.
nitens Lea, Dall, 1259.
philanthropus Conrad, Dall, 1259.
var. eliminatum Dall, Dall, 1259.
(philanthropus var. ?) *conradianum* Dall, 1259.
virginicum Conrad, Dall, 1259.
wilcoxianum n. sp., Dall, 1259.
(Eutrochus) ceranicum n. sp., Dall, 1259.
limulium n. sp., Dall, 1259.
Callipteridium inæquale Lx., White, 6049, 6050.
mansfeldi Lx., White, 6049.
membranaceum Lx., White, 6050.
pottsvillense n. sp., White, 6052.
sullivantii (Lx.) Weiss, White, 6049, 6050.
Callista (Aphrodina) *tenuis* H. and M., Logan, 3554.
(Aphrodina?) tenuis H. and M., Stanton, 5191.
(Dosiniopsis?) orbiculata H. and M., Stanton, 5191.
Callistemophyllum heerii Ett., Lesquereux, 3470.
Callithamnopsis Whitfield, Whitfield, 6102.
fruticosa, Whitfield, 6100, 6102.
Callopora, Simpson, 4983.
Callopora Hall, Ulrich, 5537.
ampla n. sp., Ulrich, 5537.
angularis n. sp., Ulrich, 5537.
crenulata n. sp., Ulrich, 5537.
dumalis n. sp., Ulrich, 5537.
goodhuensis n. sp., Ulrich, 5537.
incontroversa Ulrich, Ulrich, 5537.
multitabulata Ulrich, Ulrich, 5537.
pulchella n. sp., Ulrich, 5537.
var. persimilis n. var., Ulrich, 5537.
undulata Ulrich, Ulrich, 5537.
Callotrypa, Simpson, 4983.
Calops cristatus n. gen. et. sp., Marsh, 3682, 3690.
consors n. sp., Marsh, 3707.
cristatus, Marsh, 3707.
Calosoma emmonsii n. sp., Scudder, 4900.
Calymmene callicephala Green, 1832, Clarke, 952.
rugosa Shumard, Keyes, 3061.
senaria Conrad, Keyes, 3061.
vogdesi, Første, 1835.
Calyptræa aperta Sol., Harris, 2316.
costata, Say, 4813.
grandis, Say, 4813.
trochiformis Lamarek, Clark, 906.
sp., Harris, 2310.
Calyptrophorus jacksoni n. sp., Clark, 904, 906.

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- Calyptrophorus trinodiferus* Con., Harris, 2315.
velatus var. *compressa*, Harris, 2310.
velatus, Whitfield, 6097.
- Camarasaurus*, Osborn, 4206.
 (*Atalantosaur*), Case, 768.
- Camarella parva* (Bill.), Matthew, 3746.
- Cameroeras* Conrad, 1839, Clarke, 953.
hennepini n. sp., Clarke, 953.
proteiforme Hall, 1847, Clarke, 953.
 n. sp., Clarke, 953.
- Camarophoria* King, Hall and Clarke, 2261a, 2264.
rhomboidalis, Hall and Clarke, 2261a, 2268.
 n. sp., Hall and Clarke, 2263.
ringens Swallow, Girty, 2038.
 (*Camarophorella* Hall), Hall and Clarke, 2264.
- Camarospira* n. gen., Hall and Clarke, 2261.
 Hall, Hall and Clarke, 2264.
- Camarotoechia* Hall and Clarke, Grabau, 2086.
- Camarotoechia* Hall, Hall and Clarke, 2261a, 2264.
barrandii Hall, Clarke, 971.
camarifera Winchell (?), Girty, 2038.
congregata (Conrad), Grabau, 2086.
contracta (Hall) Hall and Clarke?, Girty, 2039.
dotis Hall, Grabau, 2086.
dryope Billings, Clarke, 971.
elegantula n. sp., Rowley, 4677a.
endlichi (Meek) Schuchert, Girty, 2039.
 (?) *fitchana* Hall, Clarke, 971.
herrickana n. sp., Girty, 2038.
horsfordi Hall, Grabau, 2086.
hubbardi, Win., Lane, 3400.
huronensis, Lane, 3400.
metallica White, Girty, 2038.
oblata Hall, Clarke, 971.
sappho Hall, Grabau, 2086.
sappho Hall (?), Girty, 2038.
 (*Liorhynchus* Hall), Hall and Clarke, 2264.
 (*Plethorhynchus* Hall), Hall and Clarke, 2264.
 (*Rhynchonella*) *camerifera*, sp., Lane, 3400.
 sp.?, Clarke, 971.
 sp., Girty, 2038.
- Camelomeryx* n. gen., Scott, 4883, 4884.
longiceps n. sp., Scott, 4883.
- Camelops* Leidy, Wortman, 6493.
americanus n. sp., Wortman, 6493.
kansasus Leidy, Wortman, 6493.
vitikerianus Cope, Wortman, 6493.
- Camarella* Billings, Hall and Clarke, 2261a, 2264.
- Campeloma macrospira* Meek, White, 6036.
- Campophyllum kansasense* n. sp., Miller and Gurley, 3997a.
torquium (Owen), Keyes, 3061.
torquium Owen, Beede, 388.
 sp., Girty, 2037.
- Camptocrinus* W. and Sp. (nov. subgen.), Wachsmuth and Springer, 5765a.

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- Camptocrinus cirrifer* W. and Sp. (n. sp.), Wachsmuth and Springer, 5765a.
myelodactylus W. and Sp. (n. sp.), Wachsmuth and Springer, 5765a.
- Camptonectes bellistriatus* Meek, Logan, 3559.
bellistriatus Meek, Stanton, 5206.
 var. *distans* n. var., Stanton, 5206.
burlingtonensis Gabb, Harris, 2315.
extenuatus Meek and Hayden, Logan, 3559.
pertenuistriatus Hall and Whitfield, Stanton, 5206.
platessa White, Herrick and Johnson, 2465.
platessa White, Stanton, 5791.
platessiformis White, Stanton, 6206.
- Camptosaurus*, Marsh, 3701, 3702.
dispar, Marsh, 3683.
- Cancellaria alternata*, Whitfield, 6101.
annosa n. sp., Aldrich, 76.
antiqua Wagner, Dall, 2307.
bastropensis n. sp., Harris, 2307.
conradiana Dall, var. *rotunda*, Dall, 1259.
galvestonensis n. sp., Harris, 2309.
graciloides n. sp., Aldrich, 76.
 var. *bella* n. var., Aldrich, 76.
graciloides Ald., Harris, 2316.
 var. *bella* n. var., Harris, 2316.
irelaniana n. sp., Cooper, 1071.
lanceolata n. sp., Aldrich, 75.
lanceolata Ald., Harris, 2316.
malachitensis n. sp., Stanton, 5191.
marieana n. sp., Aldrich, 74.
marieana, Harris, 2316.
panones n. sp., Harris, 2307.
 var. *junipera* n. var., Harris, 2307.
 var. *smithvillensis* n. var., Harris, 2307.
- penrosei* n. sp., Harris, 2307.
priama n. sp., Harris, 2308.
quercollis var. *greggi*, Harris, 2315, 2316.
reticulata Linné, Dall, 1259.
rowelli n. sp., Guppy and Dall, 2214.
rudis n. sp., Whitfield, 6097.
silværupis n. sp., Harris, 2311, 2316.
tortiplica Con., Harris, 2311, 2316.
ulmulu n. sp., Harris, 2307.
 (*Merica*) *subalta*, Whitfield, 6097.
 (*Trigonostoma*) *sericea* n. sp., Dall, 1259.
- Cancer proavitus* n. sp., Packard, 4231.
- Candona caudida* Müller, Jones, T. R., 2935.
candida var. *depressa* n. var., Chapman, 869.
gracilis n. sp., Chapman, 869.
lactea var. *acuminata* n. var., Chapman, 869.
 ? *sanctæ-mariæ* n. sp., Jones, T. R., 2935.
subovata n. sp., Jones, 2934.
subreniformis n. sp., Jones, 2934.
- Canimartes cumminsi* Cope, Cope, 1087.
- Canis indianensis* Leidy, Cope, 1095.
priscolatrans Cope, Cope, 1104.
- Canistocrinus* Wachsmuth and Springer, James, 2889.
pattersoni S. A. Miller, James, 2889.

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- Canistocrinus richardsoni* Wetherby, James, 2889.
- Cannapora* Hall, Lambe, 3374.
jubciformis Hall, Lambe, 3374.
- Cantharus cumberlandianus*, Whitfield, 6101.
- Capellinia* Hall, Hall and Clarke, 2261a, 2264.
mira, Hall and Clarke, 2261a, 2268.
- Capitosaurus*, Case, 767.
- Caprina* cf. *adversa* d'Orbigny, Boehm, 503a.
jamaicensis n. sp., Whitfield, 6107.
ramosa n. sp., Boehm, 503a.
- Caprinella occidentalis* n. sp., Whitfield, 6107.
quadrangularis n. sp., Whitfield, 6107.
- Caprinula gigantea* n. sp., Whitfield, 6107.
- Captorhinus* n. gen., Cope, 1097.
- Capulus* Montfort, Keyes, 3062.
biserialis (Hall), Keyes, 3062.
canadensis Whiteaves, Whiteaves, 6080.
equilateralis (Hall), Keyes, 3062.
expansus Whitf., Harris, 2316.
haliotoides (Meek and Worthen), Keyes, 3062.
latus (Keyes), Keyes, 3062.
obliquus (Keyes), Keyes, 3062.
ovalis (Stevens), Keyes, 3062.
paralius (White and Whitfield), Keyes, 3062.
parvus Swallow, Keyes, 3062.
subsinuosus (Worthen), Keyes, 3062.
tribulosus (White), Keyes, 3062.
 sp., Weller, 5994.
- Carabites exanimus*, Scudder, 4889, 4900.
- Carabocrinus ovalis* n. sp., Miller and Gurley, 3997c.
- Carabus jeffersoni* n. sp., Scudder, 4900.
- Carausia*, Beecher, 366.
- Carbonia bairdioides*, Dawson, 1454.
elongata, Dawson, 1454.
fabulina, Dawson, 1454.
rankiniana, Dawson, 457.
- Carcharodon mortoni* Gibbs, Lucas, 3582.
polygyrus Agassiz, Clark, 906.
- Carcinosoma ingens* n. sp., Claypole, 992.
- Cardiaster cinctus* (Morton), Clark, 892.
- Cardinia angulifera*, Ami, 82.
gibbosus (?), Hyatt, 2818.
wyomingensis n. sp., Logan, 3559.
- Cardiniopsis* n. gen., Stanton, 5199.
unioides, n. sp., Stanton, 5199.
- Cardinocrania* Waagen, Hall and Clarke, 2260.
- Cardiocarpon cornutum* Dn., White, 6052.
cuyahogæ n. nom., White, 6052.
elongatum Newb., White, 6052.
girtyi n. sp., White, 6052.
obliquum Dn., White, 6052.
 (Samaropsis) *branneri* Fairch. and D. W., White, 6050.
- Cardiocarpus*, Jones, 2926.
- Cardioceras cordiforme* Meek, Logan, 3559.
dubium n. sp., Hyatt, 2818.
- Cardiola* Broderip, Grabau, 2086.
retrostriata von Buch, Grabau, 2086.
- Cardiopsis* (?) *erectus* n. sp., Weller, 5994.
megambonata, Lane, 3400.
megambonata Win., Weller, 6006.

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- Cardiopsis* (?) *radiata* Meek and Worthen, Weller, 5994.
tenuicostata n. sp., Whiteaves, 6074.
- Cardita alticosta* Gabb, Cooper, 1072.
belviderensis n. sp., Cragin, 1116.
belviderensis, Stanton, 5197.
granulata, Whitfield, 6101.
- Carditamera aculeata*, Whitfield, 6101.
arata, Whitfield, 6101.
- Cardium* Linné, Dall, 1281.
- Cardium* (L.) Lamarck, Dall, 1281.
acroome n. sp., Dall, 1281.
alabamense, Harris, 2315.
bisolaris, Stanton, 5197.
ctenolium n. sp., Dall, 1281.
galvestonense n. sp., Harris, 2309.
harrisi n. sp., Vaughan, 5722.
hatchetigbeense, Harris, 2313.
ingens Wagner, Dall, 1273.
 (?) *mudgei* n. sp., Cragin, 1116.
mudgei, Stanton, 5197.
pauperculum, Meek, Herrick and Johnson, 2465.
pauperculum Meek, Stanton, 5191.
propecciliare n. sp., Dall, 1281.
quinordinatum n. sp., Cragin, 1118.
trite White, Stanton, 5191.
tuomeyi Ald., Harris, 2315.
tuomeyi, Harris, 2313.
 sp., Herrick and Johnson, 2465.
 s. s., Dall, 1281.
- (*Cerastoderma*) *Morch*, Dall, 1281.
- (*Cerastoderma*) *craticuloides*, Whitfield, 6101.
chipolanum n. sp., Dall, 1281.
ciliatum Fabricius, Dall, 1281.
decoratum Grewingk, Dall, 1281.
druidicum n. sp., Dall, 1281.
leptopleura Conrad, Dall, 1281.
pansatrum n. sp., Dall, 1281.
phlyctaena n. sp., Dall, 1281.
robustum Solander, Dall, 1281.
teniopleura n. sp., Dall, 1281.
taphrium n. sp., Dall, 1281.
virginianum Conrad, Dall, 1281.
waltonianum n. sp., Dall, 1281.
- (*Discors*) *Deshayes*, Dall, 1281.
- (*Ethmocardium*) *White*, Dall, 1281.
- (*Fragum*) *Bolten*, Dall, 1281.
arestum n. sp., Dall, 1281.
biangulatum Sowerby, Dall, 1281.
burnsii n. sp., Dall, 1281.
gatunense n. sp., Dall, 1281.
medium Linné, Dall, 1281.
 sp. indet., Dall, 1281.
- (*Lævicardium*) *Swainson*, Dall, 1281.
compressum n. sp., Dall, 1281.
mortoni Conrad, Dall, 1281.
serratum Linné, Dall, 1281.
sublineatum Conrad, Dall, 1281.
- (*Nemocardium*) *bisolaris* n. sp., Cragin 1116.
- (*Papyridea*) *Swainson*, Dall, 1281.
bulbosum n. sp., Dall, 1281.
semisulcatum Gray, Dall, 1281.

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Genera and species described—Continued.

Cardium (Papyridea) *spinosum* Meuschen, Dall, 1281.

var. *aspersum* Sowerby, Dall, 1281.

var. *spinosum* s. s., Dall, 1281.

var. *turtoni* Dall, Dall, 1281.

(*Protocardia*) *texanum*, Stanton, 5197.

(*Ringicardium*) *Fischer*, Dall, 1281.

(*Trachycardium*) *Mörch*, Dall, 1281.

var? *bowdenense* Dall, Dall, 1281.

cestum n. sp., Dall, 1281.

dalli Heilprin, Dall, 1281.

delphicum n. sp., Dall, 1281.

dominicanum n. sp., Dall, 1281.

emmonsii Conrad, Dall, 1281.

inconspicuum Guppy, Dall, 1281.

isocardia Conrad, Dall, 1281.

lingualeonis Guppy, Dall, 1281.

malacum n. sp., Dall, 1281.

muricatum Linné, Dall, 1281.

oedallium Dall, Dall, 1281.

parile n. sp., Dall, 1281.

precursor n. sp., Dall, 1281.

virile n. sp., Dall, 1281.

(*Trigoniocardia*) *alicula* n. sp., Dall, 1281.

aminense n. sp., Dall, 1281.

apateticum n. sp., Dall, 1281.

maturense n. sp., Dall, 1281.

simrothi n. sp., Dall, 1281.

willcoxi n. sp., Dall, 1281.

(*Tropidocardium*) *Roemer*, Dall, 1281.

Carex burrardiana n. sp., Dawson, 1448.

vancouverensis n. sp., Dawson, 1448.

Cariacus lævicornis n. sp., Cope, 1101, 1104.
sp., Cope, 1104.

Caricella claibornensis Harris, Harris, 2308.

demissa var. *texana* Gabb, Harris, 2307.

leana, Harris, 2310.

plicata n. sp., Whitfield, 6097.

podagrina Dall, Dall, 1259.

podagrina Dall, Harris, 2311, 2316.

ponderosa n. sp., Whitfield, 6097.

pyruloides, Whitfield, 6097.

subangulata var. *cherokeensis* n. var.,
Harris, 2307.

sp., Clark, 906.

Carinaria caperata n. sp., Guppy and Dall,
2214.

Carinaropsis Hall, Ulrich and Scofield, 5541.

acuta n. sp., Ulrich and Scofield, 5541.

cunulæ Hall, Ulrich and Scofield, 5541.

cymbula Hall, Ulrich and Scofield, 5541.

explanata n. sp., Ulrich and Scofield, 5541.

minima n. sp., Ulrich and Scofield, 5541.

phalera Sardeson, Ulrich and Scofield,
5541.

Carolia Cantraine, Dall, 1272.

(*Carolia*) *jamaicensis* n. sp., Dall, 1272.

(*Wakullina*) *floridiana* n. sp., Dall, 1269,
1272.

Carpinus grandis Ung., Newberry, 4083.

Carpites coniger n. sp., Lesquereux, 3470.

cordiformis n. sp., Lesquereux, 3470.

obovatus n. sp., Lesquereux, 3470.

pedunculatus n. sp., Knowlton, 3255.

triangulosus Lx., Knowlton, 3264.

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Genera and species described—Continued.

Carpolites, Dawson, 1434.

spinosus Newb., Newberry, 4083.

lineatus Newb., Newberry, 4083.

transsectus Lx., White, 6052.

(*Zamites*) *meridionalis* n. sp., Dawson,
1436.

Carpelithus barrenensis Ward n. sp., Fontaine,
1850.

drupæformis n. sp., Hollick, 2698.

fasciculatus Fontaine, 1850.

floribundus n. sp., Newberry, 4080.

fœnarius Ward n. sp., Fontaine, 1850.

harveyi n. sp., Fontaine, 1846, 1847.

hirsutus n. sp., Newberry, 4080.

montium-nigrorum Ward, n. sp., Fon-
taine, 1850.

obovatus n. sp., Fontaine, 1846, 1847.

ovæformis n. sp., Newberry, 4080.

pruniformis n. sp., Newberry, 4080.

storrssii Fontaine, Ward, 5857.

virginiensis Fontaine, Fontaine, 1850.

woodbridgensis n. sp., Newberry, 4080.

Carpomanon glandulosum n. sp., Rauff, 4548.

stellatum-sulcatum (F. Rom.), Rauff, 4548.

var. *distorta*, Rauff, 4548.

Carpophilus restructus n. sp., Scudder, 4900.

Carposphæra, Matthew, G. F., 3760.

Cartægus atavina Heer, Lesquereux, 3472.

Carvocaris Salter, Gurley, 2217.

curvilatus n. sp., Gurley, 2217.

oblongus n. sp., Gurley, 2217.

wrightii Salter, Gurley, 2217.

Carya antiquum Newb., Newberry, 4083.

Caryates veta, Whitfield, Herrick and John-
son, 2465.

Caryocrinis bulbulus n. sp., Miller and Gur-
ley, 3997c.

ellipticus n. sp., Miller and Gurley, 3997c.

hammelli n. sp., Miller and Gurley, 4000.

indianensis n. sp., Miller, 3992.

kentuckiensis n. sp., Miller and Gurley,
3997d.

milliganæ n. sp., Miller and Gurley, 4000.

Caryocrinites n. gen., Say, 4813.

ornatus, Say, 4813.

Caryomanon incisio-lobatum (F. Rom.), Rauff,
4548.

roemeri (Hinde), Rauff, 4548.

Caryophyllia dalli n. sp., Vaughan, 5735.

texana n. sp., Vaughan, 5735.

Caryospongia juglans var. *nuxmoschata* Hall,
Rauff, 4548.

Cassia obtusa n. sp., Knowlton, 3246.

polita n. sp., Lesquereux, 3470.

problematica n. sp., Lesquereux, 3470.

sp. ?, Newberry, 4083.

Cassidaria brevidentata Ald. var., Harris, 2311,
2315, 2316.

carinata Lam. ?, Whitfield, 6097.

dubia Ald., Harris, 2316.

Cassidulus æquoreus Morton, Clark, 892.

florealis (Morton), Clark, 892.

micrococcus Gabb, Clark, 892.

porrectus Clark, Clark, 892.

stantoni Clark, Clark, 892.

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- Cassidulus subconicus* Clark, Clark, 892.
subquadratus Conrad, Clark, 892.
Cassis (*Phalium*) *globosum* Dall, Dall, 1259.
Castalia? *duttoniana* n. sp., Knowlton, 3264.
pulchella n. sp., Knowlton, 3255.
Castanea castaneaeifolia (Unger), Knowlton, 3262.
Castor fiber Linn., Cope, 1104.
Castoroides, Moore, 4032.
ohioensis, Moore, 4027.
Casuarina covellei n. sp., Ward, 5846.
quadriavallis Labill, Ward, 5846.
Catenipora Lam., Say, 4813.
Catobaris n. gen., Scudder, 4890.
cœnosa, Scudder, 4890.
Catopygus oviformis Conrad, Clark, 892.
pusillus Clark, Clark, 892.
Cavoscala n. gen., Whitfield, 6097.
annulata, Whitfield, 6097.
Celastrophyllum augustifolium n. sp., Newberry, 4080.
brittonianum Hollick n. sp., Newberry, 4080.
crassipes, n. sp., Lesquereux, 3470.
crenatum Heer, Newberry, 4080.
cretaceum n. sp., Lesquereux, 3470.
cretaceum Lesq., Newberry, 4080.
decurrens n. sp., Lesquereux, 3470.
grandifolium n. sp., Newberry, 4080.
hunteri n. sp., Ward, 5846.
minus Hollick n. sp., Newberry, 4080.
mysinoides n. sp., Lesquereux, 3470.
newberryanum Hollick n. sp., Newberry, 4080.
newberryanum Hollick, Hollick, 2698.
obliquum n. sp., Lesquereux, 3470.
pulchrum n. sp., Ward, 5856.
robustum n. sp., Newberry, 4080.
spatulatum, n. sp., Newberry, 4080.
undulatum n. sp., Newberry, 4080.
Celastus arctica Heer, Hollick, 2696.
arctica Heer, Newberry, 4080.
culveri n. sp., Knowlton, 3255.
ellipticus n. sp., Knowlton, 3255.
inæqualis n. sp., Knowlton, 3255.
lindgreni, n. sp., Knowlton, 3246.
taurinisensis Ward, (?) Hollick, 2708.
veatchi n. sp., Hollick, 2708.
Cenellipsis, Matthew, G. F., 3760.
Cenoceras aratum, Hyatt, 2819.
clausum, Hyatt, 2819.
granulosum, Hyatt, 2819.
intermedium, Hyatt, 2819.
lineatum, Hyatt, 2819.
Cenosphæra, Matthew, G. F., 3760.
Centrinus disruptus, Scudder, 4890.
obnuptus, Scudder, 4890.
Centroceras, Hyatt, 2819.
Centron n. gen., Scudder, 4890.
moricollis, Scudder, 4890.
Centronella Billings, Grabau, 2086.
Centronella Billings, Hall and Clarke, 2261a, 2264.
emaciata n. sp., Rowley, 4677a.
impressa Hall, Grabau, 2086.

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- Centronella Billings*, (*Oriskania* Hall), Hall and Clarke, 2264.
 (*Romingerina* Hall), Hall and Clarke, 2264.
 (*Selennella* Hall), Hall and Clarke, 2264.
Cephalaspidae, Case, 766.
Cephalotaxopsis carolinenses Fontaine, n. sp., Ward, 5857.
magnolia Fontaine, Fontaine, 1850.
Cephalotropis coronatus n. gen. et sp., Cope, 1100.
Ceramella, Simpson, 4983.
Ceramophylla n. gen., Ulrich, 5537.
frondosa n. sp., Ulrich, 5537.
Ceramopora, Simpson, 4983.
Ceramoporella, Simpson, 4983.
Ceramoporella Ulrich, Ulrich, 5537.
distincta Ulrich, Ulrich, 5537.
inclusa, n. sp., Ulrich, 5537.
interporosa n. sp., Ulrich, 5537.
Ceratlocaris acuminata Hall, Stose, 5269.
poduriformis n. sp., Whitfield, 6104.
Ceratodictya n. gen., Hall and Clarke, 2269, 2270.
annulata Hall (sp.), Hall and Clarke, 2269, 2270.
carpenteriana n. sp., Hall and Clarke, 2269, 2270.
centeta n. sp., Hall and Clarke, 2269, 2270.
cincta Hall (sp.), Hall and Clarke, 2269, 2270.
zonata n. sp., Hall and Clarke, 2269, 2270.
Ceratodus americanus n. sp., Knight, 3207.
robustus n. sp., Knight, 3207.
Ceratops, Marsh, 3701.
Ceratopora n. gen., Grabau, 2086, 2088.
dichotoma n. sp., Grabau, 2086, 2088.
distorta n. sp., Grabau, 2088.
jacksoni n. sp., Grabau, 2086, 2088.
Ceratopsis n. gen., Ulrich, 5540.
chambersi Miller, Ulrich, 5540.
var. robusta n. var., Ulrich, 5540.
Ceratosaurus, Case, 768.
Ceratosaurus Marsh, 3701, 3702.
Ceratostigma papillata n. gen. et sp., Clarke, 946.
Ceraurus milleranus n. sp., Miller and Gurley, 3997a.
pleurexanthemus Green, 1832, Clarke, 952.
 (*Pseudosphærexochus*) *clintoni* n. sp., Foreste, 1835.
Cercis? *nevadensis* n. sp., Knowlton, 3263.
Cercopis grandescens, Scudder, 4895.
selwyni, Scudder, 4895.
Cercyon? *terrigena*, Scudder, 4895.
Cerecopes torpescens, Scudder, 4895.
Ceriocrinus hemisphericus (Shumard), Keyes, 3061.
monticulatus n. sp., Beede, 394.
nodulifera n. sp., Butts, 672.
Cerionites dactylioides Owen, Calvin, 686.
Cerithioderma (*Mesostoma*) *prima* Con., Aldrich, 73.
Cerithiopsis conica n. sp., Aldrich, 74.
conica Ald., Harris, 2316.

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- Cerithiopsis dalli* n. sp., Aldrich, 74.
fluviatilis n. sp., Aldrich, 74.
fluviatilis Ald., Harris, 2316.
metaxæ Della Chiaje var. *tæniolata* Dall, 1259.
scariphus n. sp., Dall, 1259.
terebropsis n. sp., Harris, 2316.
Cerithium algicola C. B. Adams, Dall, 1259.
bosquense Shum., Cragin, 1115.
burnsii n. sp., Dall, 1259.
callisoma n. sp., Dall, 1259.
caloosaense, Dall, 1259.
chipolanum n. sp., Dall, 1259.
claytonense n. sp., Aldrich, 70.
coccodes n. sp., Dall, 1259.
delicatulum n. sp., Aldrich, 74.
delicatulum Ald., Harris, 2316.
fairbanksi n. sp., Cooper, 1071.
floridanum Morch, Dall, 1259.
gainesensis n. sp., Harris, 2310.
galvestonense n. sp., Harris, 2309.
georgianum Lyell and Sowerby, Dall, 1259.
glaphyrea n. sp., Dall, 1259.
 var. *litharium*, Dall, 1259.
globoleve n. sp., Harris, 2310.
interlineatum n. sp., Cragin, 1115.
mediaviæ n. sp., Harris, 2310.
muscarum Say, Dall, 1259.
ocalanum n. sp., Dall, 1259.
paskentaensis n. sp., Stanton, 5199.
penrosei n. sp., Harris, 2307, 2310.
platynema n. sp., Dall, 1259.
præcursor Heilprin, Dall, 1259.
proctori n. sp., Cragin, 1115.
serratoideus n. sp., Aldrich, 71.
strigosum n. sp., Stanton, 5199.
tombigbeense Ald., Harris, 2316.
tramitensis n. sp., Cragin, 1115.
vinctum, Whitfield, Dall, 1259.
webbi n. sp., Harris, 2307.
 (*Companile*) *claytonense*, Harris, 2310.
 sp. indet., Dall, 1259.
 sp., Harris, 2309.
 sp., Stanton, 5199.
Ceronia singleyi n. sp., Harris, 2307.
Cetiosaurus, Case, 768.
Cetiosaurus, Osborn, 4218.
Cetochilus septentrionalis, Beecher, 366.
Cetotherium cephalus, Cope, 768.
 crassangulum n. sp., Cope, 1096.
 davidsonii, Cope, 1100.
 leptocentrum, Cope, 1100.
 magalophyllum n. sp., Cope, 1096, 1100.
 pussillum Cope, Cope, 1096.
Ceuthorhynchus claudus, Scudder, 4890.
 compactus, Scudder, 4890.
 degravatus, Scudder, 4890.
 duratus, Scudder, 4890.
 evinctus, Scudder, 4890.
Chænomya longa n. sp., Miller and Gurley, 4002.
 minnehaha (Swallow), Keyes, 3062.
Chætetes milleporaceus Troost, Keyes, 3061.
 perantiquus n. sp., Whiteaves, 6087.
Chætocladus plumula n. gen. et sp., Whitfield, 6087.

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- Chatomorpha* (?) *prima* n. sp., Whitfield, 6087.
Chalicotherium, Osborn, 4178, 4185.
Chama agassizii Wagner, Dall, 1273.
 congregata, Whitfield, 6101.
 gainesensis n. sp., Harris, 2310.
Chamops segnus n. gen. et sp., Marsh; 3671.
Champsosaurus, Case, 768.
Chara stantoni n. sp., Knowlton, 3221.
 stantoni Knowlton, White, 6036.
Charactophyllum n. gen., Simpson, 4984.
Charionella Billings, Hall and Clarke, 2261.
Charydrobia stachei n. sp., White, 6036.
Chauliognathus pristinus, Scudder, 4900.
Cheilocephalus n. gen., Berkey, 429.
 st. croixensis n. sp., Berkey, 429.
Cheirolepis canadensis, Claypole, 994.
 muensteri (Schenk) Schimper, Ward, 5857.
 trailli, Claypole, 994.
Chelydosaurus, Case, 767.
Chemnitzia ? *coalvillensis* Meek, Herrick and Johnson, 2465.
 coalvillensis Meek, Stanton, 519.
Chiastoclonella headi n. sp., Rauff, 4549.
Chicagocrinus n. gen., Weller, 6002.
 inornatus n. sp., Weller, 6002.
 ornatus n. sp., Weller, 6002.
Chilocorus ulkei n. sp., Scudder, 4900.
Chiloporella, Simpson, 4983.
Chilopus dubius n. gen. et sp., Matthew, G. F., 3759.
Chilotrypa, Simpson, 4983.
Chione (?) *decepta* n. sp., Hill, 2539.
 ulocyma, Harris, 2309.
Chirospongia, James, 2881.
 faberi, James, 2881.
Chiton (*Trachyodon*) *eocenensis* Conrad, Dall, 1259.
Chlamydoselachus, Claypole, 993.
Chlamys choctavensis, Harris, 2313.
 greggi n. sp., Harris, 2313.
Chondrenchelys, Case, 2313.
Chondrilla ? sp., Merrill, 3969.
Chondrites cuneatus n. sp., Whiteaves, 6087.
 cupressinus n. sp., Whiteaves, 6083, 6087.
 flexuosus n. sp., Newberry, 4080.
 gracillimus n. sp., Whiteaves, 6083, 6087.
 heeri Eichwald, Knowlton, 3232.
 metissicus n. sp., Dawson, 1452.
 patulus n. sp., Whiteaves, 6088.
 (*Bythotrephis*) *patulus*, Whiteaves, 6087.
Chondrophyllum obovatum n. sp., Newberry, 4080.
 reticulatum Hollick n. sp., Newberry, 4080.
Chonetella Waagen, Hall and Clarke, 2260.
Chonetes Fischer de Waldheim, Grabau, 2086.
Chonetes Fischer de Waldheim, Hall and Clarke, 2260.
 coronatus (Conrad), Grabau, 2086.
 flemingi Norwood and Pratten, Keyes, 3062.
 cf. *geniculata* White, Weller, 6006.
 granulifera Owen, Keyes, 3062.
 hudsonica n. sp., Clarke, 971.

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- Chonetes illinoisensis* Worthen, Weller, 5994, 6006.
laevis Keyes, Keyes, 3062.
lepidus Hall, Grabau, 2086.
loganensis Hall and Whitfield, Girty, 2038.
manitobensis n. sp., Whiteaves, 6096.
mesolobus Norwood and Pratten, Girty, 2037.
millipunctatus Meek and Worthen, Keyes, 3062.
mucronatus Hall, Grabau, 2086.
 cf. *Nova-Scotica*, Hall, Clarke, 976.
ornatus Shumard, Girty, 2086.
reversa, Whitfield, 6099.
scitula, Whitfield, 6099.
scitulus Hall, Grabau, 2086.
setigerus (Hall), Grabau, 2086.
vicinus (Castelnau), Grabau, 2086.
 sp., Girty, 2039.
 sp. undet. Weller, 6006.
Chonetina Krotow, Hall and Clarke, 2260.
Chonopectus n. gen., Hall and Clarke, 2260.
fischeri (N. & P., Weller, 6006.
Chonophyllum belli Billings, Sherzer, 4951.
canadense Billings sp., Lambe, 3375.
capax Hall, Sherzer, 4951.
ellipticum Hall and Whitfield, Sherzer, 4951.
elongatum Edwards and Haime, Sherzer, 4951.
greenei n. sp., Sherzer, 4951.
magnificum Billings, Sherzer, 4951.
niagarensis Hall, sp., Sherzer, 4951.
nymphale Billings, sp., Lambe, 3375.
perfoliatum Goldfuss, sp., Sherzer, 4941.
ponderosum Rominger, Sherzer, 4951.
pseudoheliantoides n. sp., Sherzer, 4951.
sedaliense White, Keyes, 3061.
sedaliense White, Sherzer, 4951.
vadum Hall, Sherzer, 4951.
Chonostrophia n. gen., Hall and Clarke, 2260.
complanata Hall, Clarke, 971.
helderbergia n. sp., Hall and Clarke, 2260, 2268.
Chriacidae n. fam., Osborn and Earle, 4191.
Chriacus Cope, Matthew, 3800, 3801.
Chriacus ? Osborn and Earle, 4191.
baldwini (Cope), Matthew, 3800, 3801.
baldwini Cope, Osborn and Earle, 4191.
pelvidens (Cope), Matthew, 3800, 3801.
schlosserianus Cope, Matthew, 3800, 3801.
truncatus Cope, Matthew, 3800, 3801.
Christiana n. gen., Hall and Clarke, 2260.
subquadratus, Hall and Clarke, 2268.
subquadrata n. sp., Hall and Clarke, 2260.
Chrysobalanus pollardiana n. sp., Knowlton, 3263.
Chrysobothris haydeni, Scudder, 4900.
Chrysodomus engonata Heilp, Harris, 2316.
parbrazana n. sp., Harris, 2307.
striata Ald., Harris, 2316.
Chuaria circularis n. gen., et sp., Walcott, 5815.
Cicada grandoisa, Scudder, 4889.
Cidaris californicus Clark, 892.

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- Cidaris dixiensis* n. sp., Cragin, 1115.
splendens, Morton, Clark, 892.
taylorensis Clark, Clark, 892.
texanus Clark, Clark, 892.
walcotti Clark, Clark, 892.
 sp., Cragin, 1115.
Cimitaria karsteni n. sp., Clarke, 976.
 sp., Clarke, 976.
Cimoliosaurus, Case, 768.
laramiensis n. sp., Knight, 3216.
snovii, Williston, Cope, 1097.
 n. sp., Williston, 6224.
Cimolodon agilis n. sp., Marsh, 3671.
parvus n. sp., Marsh, 3671.
Cimolopteryx Marsh, Marsh, 3674.
Cincinnatia cincinnatiensis Anth, Baker, 217.
Cinchonidium? *turneri* n. sp., Knowlton, 3263.
Cinnamomum affine Lx. emend, Knowlton, 3264.
buchi Heer, Hollick, 2708.
dillieri n. sp., Knowlton, 3262.
ellipsoideum Sap. & Mar., Lesquereux, 3470.
ellipticum n. sp., Knowlton, 3222.
heeri Lesq., Lesquereux, 3470.
heeri, Lesq., Newberry, 4083.
intermedium n. sp., Newberry, 4080.
marioni n. sp., Lesquereux, 3470.
scheuchzeri Heer (?), Hollick, 2708.
scheuchzeri Heer, Lesquereux, 3470, 3472.
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sezannense Wat., Hollick, 2708.
sezannense Watelet, Lesquereux, 3470.
spectabile Heer, Knowlton, 3255.
? stantoni n. sp., Knowlton, 3264.
Cinulia ovoidea, Whitfield, 6097.
tarrantensis n. sp., Cragin, 1115.
 (Oligoptycha) *naticoides*, Whitfield, 6097.
Ciprina coteri n. sp., Aguilera, 57.
Ciprymeria (?) *mexicana* n. sp., Aguilera, 57.
Cirripedes, Clarke, 971.
plumulites sp. Clarke, 971.
Cirripodites n. gen., Matthew, 3770.
Cissites acerifolius n. sp., Lesquereux, 3470.
acutiloba n. sp., Hollick, 2681.
alatus n. sp., Lesquereux, 3470.
brownii Lesq., Lesquereux, 3470.
crispus Vel. ?, Newberry, 4080.
dentato-lobatus n. sp., Lesquereux, 3470.
formosus Heer, Lesquereux, 3470.
formosus Heer, Newberry, 4080.
ingens n. sp., Lesquereux, 3470.
 var. *parvifolia* n. var., Lesquereux, 3470.
ingens Lx., Ward, 5856.
obtusilobus n. sp., Lesquereux, 3472.
platanoidea n. sp., Hollick, 2681.
populoides n. sp., Lesquereux, 3472.
salisburyifolius Lx., Ward, 5856.
Cissus browniana n. sp., Lesquereux, 3472.
haguei n. sp., Knowlton, 3255.
Cistella Gray, Hall and Clarke, 2264.
beecheri n. sp., Clark, 903.
plicatilis n. sp., Clark, 903.

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- Cithara crosswickensis* n. sp., Whitfield, 6097.
mullicænsis n. sp., Whitfield, 6097.
Cladochonus benetti n. sp., Beede, 386.
Cladocora jamaicensis n. sp. Vaughan, 5734.
johnsoni n. sp., Gane, 1934.
recrescens Lonsdale, Vaughan, 5735.
Cladodus clarki, Claypole, 986, 992.
claypolei, Hay, 2381.
corriger, Hay, 2381.
girtyi, n. sp., Hay, 2388.
kepleri, Claypole, 986.
 (?) *magnificus*, Claypole, 993.
monroei n. sp., Eastman, 1608.
mortifer N. & W., Newberry, 4082.
rivi-petrosi, Claypole, 986.
sinuatus, Claypole, 986.
splendens Newb., Newberry, 4082.
Cladoneura n. gen., Scudder, 4894.
willistoni, Scudder, 4894.
Cladophlebis columbiana n. sp., Dawson, 1436.
argutula (Heer) Fontaine, Ward, 5857.
densifolia Fontaine, Ward, 5857.
falcata, Dawson, 1436.
indica (Oldham and Morris) Fontaine?, Ward, No. 5857.
reticulata Fontaine n. sp., Ward, 5857.
spectabilis (Heer) Fontaine, Ward, 5857.
whitbiensis tenuis var. Heer?, Ward, 5857.
Cladophlebis parva Fontaine?, Fontaine, 1850.
wyomingensis n. sp., Fontaine, 1850.
Cladopora Hall, Lambe, 3374.
clarkei n. sp., Girty, 2034.
crassa Rominger, Lambe, 3374.
cryptodens Billings (sp.), Lambe, 3374.
fischeri Billings (sp.), Lambe, 3374.
frondosa Nicholson (sp.), Lambe, 3374.
gurleyi, n. sp., Greene, 2162b.
halli n. sp., Girty, 2034.
intermedia, n. sp., Greene, 2162b.
labiosa Billings, Lambe, 3374.
lichenoides Rominger, Lambe, 3374.
multiopora Hall, Lambe, 3374.
roemeri Billings (sp.), Lambe, 3374.
smicra n. sp., Clarke, 971.
stypheia, n. sp., Clarke, 971.
turgida Rominger, Lambe, 3374.
 sp., Girty, 2038.
Cladoselache n. gen., Dean, 1470.
Cladoselache Case, 766.
newberryi n. sp., Dean, 1470.
Cladura Osten Sacken, Scudder, 4894.
integra, Scudder, 4894.
maculata, Scudder, 4894.
Clenodon Scott, Matthew, 3800, 3801.
corrugatus (Cope), Matthew, 3800, 3801.
ferox (Cope), Matthew, 3800, 3801.
ferox Cope, Osborn and Earle, 4191.
 (?) *protogonioides* (Cope), Matthew, 3800, 3801.
Claosaurus, Case, 768.
Claosaurus Marsh, 3675, 3678, 3701, 3702.
annectens n. sp., Marsh, 3672.
annectans Marsh, Williston, 6245.
Clathrodictylon jewetti n. sp., Girty, 2034.
Clathrospira n. gen., Ulrich and Scofield, 5541.

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- Clathrospira conica* n. sp., Ulrich and Scofield, 5541.
convexa n. sp., Ulrich and Scofield, 5541.
subconica Hall, Ulrich and Scofield, 5541.
Clathrosporgia Hall, Hall and Clarke, 2269, 2270.
abacus Hall, Hall and Clarke, 2269, 2271.
caprodonta n. sp., Hall and Clarke, 2269, 2271.
 (?) *desmia* n. sp., Hall and Clarke, 2269, 2270.
fenestrata Hall (sp.), Hall and Clarke, 2269, 2270.
 (?) *hamiltonensis* Hall (sp.), Hall and Clarke, 2269, 2270.
 (?) *irregularis* Hall (sp.), Hall and Clarke, 2269, 2270.
 (?) *tomaculum* Hall (sp.), Hall and Clarke, 2269, 2270.
vascellum Hall (sp.), Hall and Clarke, 2269, 2270.
Clathropora, Simpson, 4983.
Clathurella amicta n. sp., Guppy and Dall, 2214.
vendryesiana n. sp., Guppy and Dall, 2214.
Clava caloosænsis n. sp., Dall, 1259.
chipolana n. sp., Dall, 1259.
Clavella raphanoides?, Whitfield, 6097.
Clavilithes humerosus var. *texasus* n. var., Harris, 2307.
kennedyanus n. sp., Harris, 2307, 2316.
regexus n. sp., Harris, 2307.
 (Papillina) *dumosus* var. *trapaquarus* n. var., Harris, 2307.
Clavulina communis d'Orbigny, Bagg, 150.
parisiensis d'Orbigny, Bagg, 150.
Cleidophorus consuetus n. sp., Ulrich, 5534.
Cleionychia rhomboidea n. gen. et sp., Ulrich, 5531.
Cleistopora placenta (White), Keyes, 3061.
typa Winchell, Keyes, 3061.
Clementia (?) *teniosa* n. sp., Guppy and Dall, 2214.
Clemmys insculpta Le Conte, Cope, 1104.
percussus Cope, Cope, 1104.
Cleodictya Hall, Hall and Clarke, 2269, 2271.
claypolei n. sp., Hall and Clarke, 2269, 2271.
gloriosa Hall, Hall and Clarke, 2269, 2271.
mohri Hall, Hall and Clarke, 2269, 2271.
Cleonus degeneratus, Scudder, 4890.
exterraneus, Scudder, 4890.
foersteri, Scudder, 4890.
primoris, Scudder, 4890.
Clepsydrops Cope, Williston, 6247.
colletii Cope, Case, 773.
pedunculatus Cope, Case, 773.
vinslovii Cope, Case, 773.
Clepsydroporgia matutina n. sp., Hall and Clarke, 2269, 2270.
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stenops, Williston, 6245.
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- Clidastes* *velox*, Williston, 6245.
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westii n. sp., Williston and Case, 6221.
westii, Williston, 6245.
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Clidophorus Hall, Ulrich, 5539.
braziliatus, n. sp., Clarke, 976.
consuetus Ulrich, Ulrich, 5539.
neglectus Hall, Ulrich, 5539.
Climacograptus James, 2881.
antiquus Lapworth n. sp., Gurley, 2217.
bicornus James, 2881.
celatus Lapworth, Gurley, 2217.
caudatus Lapworth, Gurley, 2217.
caudatus laticaulis n. var., Gurley, 2217.
kamptotheca n. sp., Gurley, 2217.
oligotheca n. sp., Gurley, 2217.
phyllophorus n. sp., Gurley, 2217.
typicalis James, 2881.
Climatus, Case, 766.
Clinoceras *mumlekforme* Whitfield, 1878, Clarke, 952.
Clinopistha (?) *antiqua* n. sp., Whiteaves, 6087.
radiata (Hall), Keyes, 3062.
Clintonella n. gen., Hall and Clarke, 2261.
vagabunda, Hall and Clarke, 2268.
Clionychia Ulrich, Ulrich, 5539.
erecta Hall, Ulrich, 5539.
excavata n. sp., Ulrich, 5535.
lamellosa Hall, Ulrich, 5539.
nitida n. sp., Ulrich, 5539.
rhomboidea Ulrich, Ulrich, 5539.
subdunata n. sp., Ulrich, 5535.
undata Emmons, Ulrich, 5539.
Clithyrus crassicaudalis White, Girty, 2038.
var. nana n. var., Girty, 2038.
roissyi Walcott (non Léveillé), Girty, 2038.
see Athyris, (*Clithyrus*) King, Hall and Clarke, 2261.
Clisiophyllum billingsi Dawson sp., Lambe, 3375.
teres n. sp., Girty, 2038.
Clitambonites Pander, Hall and Clarke, 2260.
Clitambonites Pander, Winchell and Schuchert, 6319.
diversa Shaler, Whiteaves, 6087.
diversa Shaler sp., Winchell and Schuchert, 6319.
var. altissima n. var., Winchell and Schuchert, 6319.
(Gonambonites) plana Pander var., Matthew, 3767.
var. retroflexa de Verneuil, Matthew, 3767.
Clonograptus proximatus n. sp., Matthew, G. F., 3762.
spinosus n. sp., Matthew, 3746.
Clonopora, Simpson, 4983.
Clymenia, Clarke, 937.
Clypeaster? *brewerianus* Rémond, Merriam, 3922.
Coccoerinus Müller, Wachsmuth and Springer, 5765a.
bacca Roemer, Wachsmuth and Springer, 5765a.

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- Coccosteus*, Case, 766.
Coccosteus, Clappole, 994.
canadensis n. sp., Woodward, 6435.
cuyahogae n. sp., Clappole, 985, 990.
deciplens Ag., Dean, 1472.
halmodeus (?) n. sp., Clarke, 946.
macromus n. sp., Cope, 1450.
Cocotorus principalis, Scudder, 4890.
requiescens, Scudder, 4890.
Codaster blairi n. sp., Miller and Gurley, 3998.
gracillimus (Rowley and Hare), Rowley, 4677.
grandis, Rowley, 4677.
jessiae n. sp., Miller and Gurley, 4001.
Codonites? *inopinatus* (Rowley and Hare), Rowley, 4677.
(Cryptoschisma?) leviculus n. sp., Rowley, 4677, 4677a.
(Orophocrinus) whitii (Hall), Rowley, 4677.
Cœbothyris Douville, Hall and Clarke, 2264.
Coelacanthus, Case, 766.
robustus Newb., Hay, 2388.
Cœlidia columbiana, Scudder, 4895.
Cœliocrinus dilatatus, Whitfield, 6098.
Cœliodes primotinus, Scudder, 4890.
Coelocaulis, Simpson, 4983.
Coelocaulis Ehler, Ulrich and Scofield, 5541.
neglectus n. sp., Ulrich and Scofield, 5541.
œhlerti n. sp., Ulrich and Scofield, 5541.
Coeloconus, Simpson, 4983.
Cœlodus brownii n. sp., Cope, 1093.
brownii, Williston, 6259.
stantoni n. sp., Williston 6259.
Cœlogasteroceras, Hyatt, 2819.
Cœlohelia wagneriana n. sp., Vaughan, 5735.
Cœlonautilus Foord, pars., Hyatt, 2816.
Cœlospira, *see Anoplothecca*, (*Cœlospira*) Hall, Hall and Clarke, 2261.
concava Hall, Clarke, 971.
dichotoma Hall, Clarke, 971.
Coelurus, Case, 768.
Coelurus Marsh, 3701.
Cœnites Eichwald, Lambe, 3374.
juniperina Eichwald, Lambe, 3374.
lunata Nicholson and Hinde, Lambe, 3374.
selwynii Nicholson (sp.), Lambe, 3374.
Coleoides, Walcott, Matthew, 3790.
typicalis, Walcott, Matthew, 3790.
Coleolus Hall, Grabau, 2086.
clintonensis n. sp., Foerste, 1835.
(?) gracilis Hall, Grabau, 2086.
tenuicinctum, Grabau, 2086.
Colonia chipolana n. sp., Dall, 1259.
claibornensis, n. sp., Dall, 1259.
elegantula n. sp., Dall, 1259.
radiata n. sp., Dall, 1259.
Coloceras n. gen., Hyatt, 2816.
globulare n. sp., Hyatt, 2816.
globatum, Hyatt, 2818.
Colodon Marsh, Osborn and Wortman, 4192.
dakotensis n. sp., Osborn and Wortman, 4192.
dakotensis O. and W., Hatcher, 2336.

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- Colodon longipipes* O. & W., Osborn and Wortman, 4192.
luxatu. Marsh, 3681.
occidentalis Leidy, Wortman and Earle, 6481.
procuspidatus n. sp., Osborn and Wortman, 4192.
(Lophiodon) occidentalis Leidy, Hatcher, 2336.
Colosteus, Case, 767.
Colpomya n. gen., Ulrich, 5539.
constricta n. sp., Ulrich, 5535.
demissa n. sp., Ulrich, 5539.
Columbella mississippiensis M'r and Ald., Aldrich 73.
(Anachis) Adams, Dall, 1259.
avara Say, Dall, 1259.
avara var. *amydra* Dall, Dall, 1259.
avara var. *caloosauensis* Dall, Dall, 1259.
camax n. sp., Dall, 1259.
ichitoma n. sp., Dall, 1259.
styliola n. sp., Dall, 1259.
(Astyris) Adams, Dall, 1259.
lunata Say, Dall, 1259.
profundi Dall, Dall, 1259.
Columnaria, James, 2881.
alveolata, James, 2881.
alveolata Goldfuss, Whiteaves, 6387.
calicina, James, 2881.
(?) halli, James, 2881.
? halli Nicholson, Winchell and Schuchert, 6318.
rugosa Billings sp., Lambe, 3375.
stellata ? (Hall), Keyes, 3061.
(Cyathophylloides) disjuncta n. sp., Whiteaves, 6074.
Colutea primordialialis Heer, Lesquereux, 3470.
primordialialis Heer, Newberry, 4080.
Comarocystites obconicus Meek and Worthen, Keyes, 3061.
shumardi Meek and Worthen, Keyes, 3061.
Comephyllum cristatum Emmons, Ward, 5857.
Comphoceras ortonii n. sp., Foerste, 1835.
Compsemys, Case, 768.
Compsocrinus S. A. Miller, Wachsmuth and Springer, 5765a.
harrisi S. A. Miller, Wachsmuth and Springer, 5765a.
miamiensis (S. A. Miller), Wachsmuth and Springer, 5765a.
Conchidium Linne, Hall and Clarke, 2264.
crassiplica n. sp., Hall and Clarke, 2261a, 2263, 2268.
exponens, Hall and Clarke, 2268.
georgiæ n. sp., Hall and Clarke, 2263.
georgiæ, Hall and Clarke, 2261a, 2267.
greenii n. sp., Hall and Clarke, 2261a, 2263, 2267.
nettelrothi, Hall and Clarke, 2267.
obsoletum, Hall and Clarke, 2267.
scoparium, Hall and Clarke, 2267.
Congeria lamellata n. sp., Dall, 1272.
leucophæata Conrad, Dall, 1272.
Coniatus evisceratus, Scudder, 4890.
refractus, Scudder, 4890.

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- Coniophis precedens* n. gen. et sp., Marsh, 3672.
Conocardium Bronn, Grabau, 2086.
aliforme Sowerby, Smith, 5046.
crassifrons (Conrad), Grabau, 2086.
eboraceum Hall, Grabau, 2086.
elrodi n. sp., Miller, 3992.
exiguum n. sp., Miller, 3992.
inceptum Hall (?), Clarke, 971.
indianense n. sp., Miller, 3992.
normale Hall, Grabau, 2086.
paryulum n. sp., Miller, 3992.
parrishi Worthen, Keyes, 3062.
pulchellum White and Whitfield (?), Girty, 2038.
spinalatum n. sp., Rowley, 4677a.
Conocephalites Barrande, Matthew, 3788.
(conaspis?) cf. *perseus*, Hall, Matthew, 3788.
miser Billings, Matthew, 3776.
Conocoryphe pustulosa n. sp., Matthew, 3776.
Conocorypha (Bailiella) baileyi, Beecher, 366.
Conolichas cornutus n. sp., Clarke, 952.
Conomitra polita n. sp., Vaughan, 5722.
staminea Conrad, Dall, 1259.
tracyi n. sp., Harris, 2316.
Conopterium effusum Winchell, Keyes, 3061.
Conoryctes Cope, Wortman, 6492.
Conostichus broadheadi Lx., White, 6050.
prolifer Lx., White, 6050.
Conotreta Walcott, Hall and Clarke, 2260.
Conradella n. gen., Ulrich and Scofield, 5541.
bellula n. sp., Ulrich and Scofield, 5541.
dyeri Hall, Ulrich and Scofield, 5541.
var. cellulosa n. var., Ulrich and Scofield, 5541.
elegans Miller, Ulrich and Scofield, 5541.
fimbriata n. sp., Ulrich and Scofield, 5541.
grandis n. sp., Ulrich and Scofield, 5541.
imbricata Meek and Worthen, Ulrich and Scofield, 5541.
obliqua n. sp., Ulrich and Scofield, 5541.
similis n. sp., Ulrich and Scofield, 5541.
triangularis n. sp., Ulrich and Scofield, 5541.
Constellaria Dana, Ulrich, 5537.
varia n. sp., Ulrich, 5537.
Conularia Miller, Grabau, 2086.
amazonica n. sp., Clarke, 976.
asperata Billings, Whiteaves, 6087.
bilineata n. sp., Foerste, 1835.
blairi n. sp., Miller and Gurley, 3997a.
byblis White, Weller, 6006.
crustula White, Keyes, 3002.
cf. desiderata Hall, Clarke, 971.
gracilis Hall, Ruedemann, 4687.
gracilis Hall, Ruedemann, 4682, 4683.
gratiosa n. sp., Miller and Gurley, 3997a.
greenei n. sp., Miller and Gurley, 4002.
intertexta n. sp., Miller, 3995.
missouriensis ? Swallow, Keyes, 3062.
niagarensis, Foerste, 1835.
roeperi n. sp., Miller and Gurley, 4002.
sampsoni n. sp., Miller, 3992.
sedaliensis n. sp., Miller and Gurley, 4002.
spergensis n. sp., Miller and Gurley, 3997a.

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- Conularia undulata* Conrad, Grabau, 2086.
Conularia n. ord., Miller and Gurley, 4002.
Conus Linnaeus, Dall, 1269.
 adversarius Conrad, Dall, 1259.
 chipolanus n. sp., Dall, 1269.
 cruzanus n. sp., Dall, 1259.
 demurgus n. sp., Dall, 1269.
 isomitratus n. sp., Dall, 1269.
 var. *sulculus* Dall, Dall, 1269.
 pealii Green, Dall, 1259.
 proteus Hwass, Dall, 1259.
 puncticulatus, Harris, 2309.
 pygmaeus Reeve, Dall, 1259.
 subsaureus, Whitfield, 6097.
 sp. indet., Dall, 1259.
Cooperella Cpr. (em), Dall, 1281.
 carpenteri n. sp., Dall, 1281.
Coprolites, Clark, 906.
Coptosoma mortoni (de Loriol), Clark, 892.
 speciosum Clark, Clark, 892.
Corallidomus n. gen., Whitfield, 6099.
 concentricus n. sp., Whitfield, 6099.
Coralliphaga bryani n. sp., Clark, 904, 906.
 prima n. sp., Harris, 2313.
 (*Oryctomya*) *clabornensis* Dall, Dall, 1277.
Coralliophila abbreviata Lamarck, Dall, 1259.
 lepidota n. sp., Dall, 1259.
 magna n. sp., Dall, 1259.
Corax fulcatus, Williston, 6259.
 curvata n. sp., Williston, 6259.
Corbicula (Brururiere) Lamarck, Dall, 1272.
 alabamensis var., Harris, 2313.
 cornelliana n. sp., Harris, 2313.
 durkei Meek, White, 6036.
Corbula alabamensis var., Harris, 2315.
 aldrichi Meyer, Clark, 906.
 aldrichi, Harris, 2313.
 aldrichi var. *smithvillensis* n. var., Harris, 2307.
 concha n. sp., Aldrich, 73.
 concha, Harris, 2313.
 crassicostata n. sp., Cragin, 1118.
 crassicostata, Stanton, 5197.
 cuneata, Say, 4813.
 elevata, Whitfield, 6101.
 engelmanni Meek, White, 6036.
 filosa n. sp., Stanton, 5199.
 galvestonensis n. sp., Harris, 2309.
 hicksii n. sp., White, C. A., 6035.
 inaequale, Say, 4813.
 iodonea, Whitfield, 6101.
 kanabensis n. sp., Stanton, 5191.
 nasuta Conrad, Clark, 906.
 nematophora Meek, Stanton, 5191.
 oniscus Conrad, Clark, 906.
 (?) *persulcata* n. sp., Stanton, 5199.
 pyriformis Meek, White, 6036.
 squittiana (?), Harris, 2309.
 subcompressa, Harris, 2310.
 subcontracta n. sp., Whitfield, 6101.
 subtrigonalis M. and H., Stanton, 5191.
 triangulata n. sp., Cooper, 1071.
 (Aloidis) *caloosce* n. sp., Dall, 1272.
 elevata Conrad, Dall, 1272.

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 (Aloidis) *engonata* var. *burnsii* Dall, Dall, 1272.
 fossata Aldrich, Dall, 1272.
 var.? *extenuata* Dall, Dall, 1272.
 heterogenea Guppy, Dall, 1272.
 milium n. sp., Dall, 1272.
 oniscus Conrad, Dall, 1272.
 perdubia de Gregorio, Dall, 1272.
 texana Gabb, Dall, 1272.
 victa Guppy, Dall, 1272.
 wallesiana Harris, Dall, 1272.
 (Bothrocorbula) *radiatula* n. sp., Dall, 1272.
 synarmostes n. sp., Dall, 1272.
 viminea Guppy, Dall, 1272.
 willcoxii n. sp., Dall, 1272.
 (Corbulamella) Meek and Worthen?, Dall, 1272.
 (Cunecorbulina) *alabamensis* Lea, Dall, 1272.
 aldrichi Meyer, Dall, 1272.
 barrattiana C. B. Adams, Dall, 1272.
 compressa Lea, Dall, 1272.
 contracta Say, Dall, 1272.
 cuneata Say, Dall, 1272.
 densata Conrad, Dall, 1272.
 inaequalis Say, Dall, 1272.
 sarda n. sp., Dall, 1272.
 seminella n. sp., Dall, 1272.
 sericea n. sp., Dall, 1272.
 sphenia n. sp., Dall, 1272.
 swiftiana C. B. Adams, Dall, 1272.
 whitfieldi n. sp., Dall, 1272.
 (Potamomya) *priscopsis* n. sp., Harris 2309.
 sp., Logan, 3557.
Corbulomya taushii n. sp., White, 6036.
Corculum Bolten, Dall, 1281.
Cordacarpus lineatus Lx., White, 6040.
Cordaites Unger, White, 6050.
 angustifolius Dn., White, 6052.
 communis Lx., White, 6040, 6050.
 diversifolius Lx.?, White, 6050.
 grandifolius Lx., White, 6052.
 robbii Dn., White, 6052.
Cordania, Clarke, 938.
 becraftensis n. sp., Clarke, 971.
 hudsonica n. sp., Clarke, 971.
Cordianthus dichotomus Lx., White, 6050.
 ovatus Lx., White, 6050.
Cordiera gracillima n. sp., Cooper, 1071.
Cordylocrinus Angl., Wachsmuth and Springer, 5765a.
 plumosus (Hall), Wachsmuth and Springer, 5765a.
 ramulosus (Hall), Wachsmuth and Springer, 5765a.
Cornophyllum vetustum n. sp., Newberry 4080.
Cornulina armigera, Harris, 2316.
 armigera Aldrich, 74.
Cornulites Schlotheim, Grabau, 208.
 cingulatus Hall, Clarke, 971.
 distans, Foerste, 1835.
 hamiltoniae n. sp., Grabau, 2086.

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- Cornus impressa* Lx., Knowlton, 3264.
newberryi Hollick, Knowlton, 3255.
newberryi Hollick, Newberry, 4083.
obesus n. sp., Dawson, 1436.
platyphylloides n. sp., Lesquereux, 3470.
præcox n. sp., Lesquereux, 3470.
rhamnifolia O. Web., Knowlton, 3264.
smithvillensis n. sp., Harris, 2307.
studer Heer (?), Hollick, 2708.
studer? Heer, Knowlton, 3264.
wrightii n. sp., Knowlton, 3255.
Coroniceras claytoni, Hyatt, 2818.
Coronura aspectans Conrad sp., Clarke, 935.
Corvus annectens n. gen., Shufeldt, 4960.
Corylus macquarrii (Forbes) Heer, Newberry, 4083.
orbiculata Newb., Newberry, 4083.
rostrata fossilis Newb., Newberry, 4083.
Corymbites æthiops Herbst, Scudder, 4900.
velatus, Scudder, 4900.
Corymbocrinus Angelin, Weller, 6002.
chicagoensis n. sp., Weller, 6002.
niagarensis n. sp., Weller, 6002.
Corynexochus Angelin, Matthew, 3788.
roemingeri, Matt. n. sp., Matthew, 3788.
Coryphodon, Earle, 58a.
Coryphodon, Marsh, 3680.
Coryphodon, Osborn and Wortman, 4180.
anax Cope, Earle, 1589.
cinctus Cope, Osborn, 4205.
curviceristis Cope, Earle, 1589.
curviceristis Cope, Osborn, 4205.
cuspidatus Cope, Earle, 1589.
cuspidatus Cope, Osborn, 4205.
elephantus Cope, Earle, 1589.
elephantopus Cope, Osborn, 4205.
hamatus Marsh, Earle, 1589.
hamatus Marsh, Osborn, 4205.
latidens Cope, Osborn, 4205.
lobatus Cope, Osborn, 4205.
marginatus Cope, Osborn, 4205.
obliquus Cope, Earle, 1589.
radians, Cope, Earle, 1589.
radians, Osborn, 4203, 4205, 4210.
repandus Cope, Osborn, 4205.
singularis n. sp., Osborn, 4205.
testis Cope, Earle, 1589.
testis, Osborn, 4205.
ventanus n. sp., Osborn, 4205.
wortmani, n. sp., Osborn, 4205.
(Metalophodon) armatus, Osborn, 4205.
Corylus americana fossilis Newb., Newberry, 4083.
macquarrii (Forbes) Heer, Knowlton, 3255.
Coscinella, Simpson, 4983.
Coscinium, Simpson, 4983.
Coscinotrypa, Simpson, 4983.
Cosoryx agilis n. sp., Douglass, 6540.
Cossonus gabbi, Scudder, 4890.
rutus, Scudder, 4890.
Crangopsis vermiformis (Meek), Ortman, 4155.
Crania Retzius, Grabau, 2086.
aguricina n. sp., Hall and Clarke, 2260, 2268.

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Genera and species described—Continued.

- Crania albersi* n. sp., Miller and Faber, 3997.
cf. bella Billings, Clarke, 971.
blairi n. sp., Miller, 3995.
carbonaria, Whitfield, 6099.
chesterensis n. sp., Miller and Gurley, 4003.
crenistriata Hall, Grabau, 2086.
(?) dubia, Foerste, 1835.
favincola n. sp., Hall and Clarke, 2260, 2268.
granosa n. sp., Hall and Clarke, 2260, 2268.
granulosa N. H. Winchell, Winchell and Schuchert, 6319.
greenii n. sp., Miller, 3995.
lævis n. sp., Keyes, 3062.
lævis Keyes, Girty, 2038.
pulchella n. sp., Hall and Clarke, 2260, 2268.
retzius, Hall and Clarke, 2268.
retzius, Winchell and Schuchert, 6319.
setigera Hall, Winchell and Schuchert, 6319.
trentonensis Hall, Winchell and Schuchert, 6319.
Craniella Oehlert, Grabau, 2086.
Craniella Ehlert, Hall and Clarke, 2260.
Craniella Ehlert, Winchell and Schuchert, 6319.
(?) clintonensis, Foerste, 1835.
hamiltoniae Hall, Grabau, 2086.
ulrichi n. sp., Hall and Clarke, 2260, 2268.
? ulrichi Hall, Winchell and Schuchert, 6319.
Cranioceras, Hyatt, 2819.
Craspedophyllum Dybowsky, Grabau, 2086.
archiaci Billings, Grabau, 2086.
subcaespitosum (Nicholson), Grabau, 2086.
Crassatella alaeformis Conrad, Clark, 906.
antestriata Gabb, Harris, 2307.
aquiana Clark, Clark, 904, 906.
decliva, Aldrich, 74.
excavata Stanton, Herrick and Johnson, 2465.
excavata n. sp., Stanton, 5191.
gabbi, Harris, 2310.
gibbesi T. and H. var., Harris, 2309.
halei, Harris, 2313.
lomana n. sp., Cooper, 1071.
melina, Whitfield, 6101.
sepulcollis n. sp., Harris, 2210.
trapuquara n. sp., Harris, 2307.
texalta n. sp., Harris, 2307.
texana Heilp., Harris, 2307.
tumidula, Harris, 2313.
undulata, Say, 4813.
uniodea, n. sp., Stanton, 5198.
vadosi Mort., Harris, 2315.
sp., Harris, 2315.
Crassatellites (Crassinella) guppyi n. sp., Guppy and Dall, 2214.
Cratægus aceroides n. sp., Lesquereux, 3470.
flavescens Newb., Newberry, 4083.
læcei n. sp., Lesquereux, 3470.
laurenciana n. sp., Lesquereux, 3470.

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- Crotagus tenuinervis* n. sp., Lesquereux, 3470.
Cratoparis arcossitus, Scudder, 4890.
Crecooides osbornii Shufeldt, n. gen. et sp.,
 Cope, 1084, 1087.
Credneria ? *pachyphylla* n. sp., Knowlton,
 3255.
Cremastorhynchus stabilis, Scudder, 4890.
Crenella, Brown, Dall, 1272.
 divaricata d'Orbigny, Dall, 1272.
 duplinensis n. sp., Dall, 1272.
 minusecula n. sp., Dall, 1272.
 santana n. sp., Cooper, 1071.
Crenipecten levis n. sp., Weller, 5994.
 winchelli (Meek) ?, Weller, 5994.
Crepicephalus Owen, Walcott, 5816.
 texanus, Shumard sp., Walcott, 5816.
Crepidula fornicata (?), Whitfield, 6101.
 plana (?), Whitfield, 6101.
Crepipora, Simpson, 4983.
Crepipora Ulrich, Ulrich, 5537.
 perampla n. sp., Ulrich, 5537.
 spatiosa n. sp., Ulrich, 5537.
 subæquata n. sp., Ulrich, 5537.
Creseis sp., Aldrich, 73.
 corrugata n. sp., Matthew, 3746.
 minuta, n. sp., Matthew, 3746.
Cricoptus, Williston, 6247.
Cricotus, Case, 767.
Cricotus Williston, 6235.
 gibsoni Cope, Case, 773.
 heteroclitus, Case, 773.
 sp., Case, 773.
Crioceras annulatus, Shum., Cragin, 1115.
Crisinella, Simpson, 4983.
Cristellaria acutauricularis (Fichtel and
 Moll), Bagg, 150.
 arcuata d'Orbigny, Chapman, 870.
 articulata (Reuss), Bagg, 150.
 cassis (Fichtel and Moll), Bagg, 150.
 cassis (Fichtel and Moll), Chapman, 870.
 crepidula (Fichtel and Moll), Bagg, 150.
 cretacea Bagg, Bagg, 150.
 cultrata, Bagg, 148, 150.
 gibba d'Orbigny, Bagg, 150.
 gibba d'Orbigny, Chapman, 870.
 italica (Defrance), Bagg, 150.
 mamilligera Karrer, Bagg, 144, 150.
 megapolitana Reuss, Bagg, 150.
 miocenica n. sp., Chapman, 870.
 projecta n. sp., Bagg, 144, 150.
 radiata Bagg, 148.
 rotulata (Lamarck), Bagg, 148, 150.
 rotulata (Lamarck), Chapman, 870.
 secans Reuss, Bagg, 150.
 trachyomphala (Reuss), Bagg, 150.
 triangularis d'Orbigny, Bagg, 150.
 wetherelli, Bagg, 148.
 wetherollii (Jones), Bagg, 150.
Crocota inexpecta n. sp., Cope, 1099.
Cromyocrinus kansansensis (Miller and Gur-
 ley), Keyes, 3061.
Crotalocrinus Austin, Weller, 6002.
 americanus n. sp., Weller, 6002.
Crucibulum Schumacher, Dall, 1259.
 costatum Whitfield, 6101.

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Genera and species described—Continued.

- Cruratula Bittner*, Hall and Clarke, 2264.
Cryphaeus Green, Grabau, 2086.
 boothi Green, Grabau, 2086.
 var. *calliteles* Green, Grabau, 2086.
Cryptacanthia White and St. John, Hall and
 Clarke, 2261a.
Cryptoblastus kirkwoodensis (Shumard),
 Keyes, 3061.
 melo (Owen and Shumard), Keyes, 3061.
Cryptocarya colignitica n. sp., Hollick, 2708.
Cryptocephalites n. gen., Scudder, 4896.
 punctatus n. sp., Scudder, 4896.
Cryptodictya Hall, Hall and Clarke, 2269,
 2270.
 alleni Hall, Hall and Clarke, 2269, 2270.
Cryptodiscus Hall, Weller, 5984.
 bilobus n. sp., Weller, 5983.
 corrugatus n. sp., Weller, 5983.
 digitatus n. sp., Weller, 5983.
 hydei n. sp., Weller, 5983.
Cryptohypnus ? *terrestris*, Scudder, 4896.
Cryptonella Hall, Grabau, 2086.
Cryptonella Hall, Hall and Clarke, 2261a, 2264
 (?) *fausta*, n. sp., Clarke, 971.
 ovalis n. sp., Miller, 3992.
 planirostris Hall, Grabau, 2086.
 rectirostris Hall, Grabau, 2086.
 subelliptica, Hall and Clarke, 2268.
 (*Eunella* Hall), Hall and Clarke, 2264.
 n. sp., Clarke, 971.
Cryptopora Jeffreys, Hall and Clarke, 2264.
 n. sp., Clarke, 971.
Cryptorhynchus annosus, Scudder, 4890.
 durus, Scudder, 4890.
 kerri, Scudder, 4890.
 profusus, Scudder, 4890.
Cryptozoon boreale, Dawson, 1448.
 minnesotense, Chaney, 865.
 occidentale n. sp., Dawson, 1446.
 ? *occidentale* Dawson, Walcott, 5815.
Ctenacanthus amblyxiphias n. sp., Cope, 1076.
 acutus n. sp., Eastman, 1598.
 costellatus, Clappole, 996.
 depressus n. sp., Newberry, 4082.
 gurleyi n. sp., Newberry, 4082.
 hybodontes, Clappole, 996.
 xiphias, Eastman, 1598.
Ctenerpeton alveolatum n. gen. et sp., Cope,
 1103.
 tenuicorne Cope, Cope, 1103.
Ctenichnites ingens ? Matthew, 3789.
Ctenis auriculata Fontaine, Ward, 5857.
 grandifolia Fontaine, Ward, 5857.
 orovillensis Fontaine, Ward, 5857.
Ctenobolbina Ulrich, Grabau, 2080.
Ctenobolbina Ulrich, Ulrich, 5540.
 armata n. sp., Ulrich, 5543.
 cavimarginata n. sp., Ulrich, 5543.
 crassa Ulrich, Ulrich, 5540.
 fulcrata n. sp., Ulrich, 5540.
 granosa n. sp., Ulrich, 5543.
 insolens n. sp., Ulrich, 5543.
 loculata n. sp., Ulrich, 5543.
 minima Ulrich, Grabau, 2086.
 obliqua n. sp., Ulrich, 5543.

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Genera and species described—Continued.

- Ctenobolbina spiculosa* n. sp., Ulrich, 5543.
subcrassa n. sp., Ulrich, 5543.
Ctenocephalus (*Hartella*) *matthewi*, Beecher, 366.
Ctenodonta Salter, Ulrich, 5539.
 albertina n. sp., Ulrich, 5539.
 alta Hall, Ulrich, 5539.
 calvini n. sp., Ulrich, 5539.
 carinata n. sp., Ulrich, 5539.
 cingulata, Ulrich, 5535.
 compressa Ulrich, Ulrich, 5539.
 fecunda Hall, Ulrich, 5539.
 filistriata n. sp., Ulrich, 5539.
 gibberula Salter, Ulrich, 5539.
 hamburgensis Walcott, Ulrich, 5539.
 intermedia Ulrich, Ulrich, 5539.
 logani Salter, Ulrich, 5539.
 longa Ulrich, Ulrich, 5539.
 madisonensis n. sp., Ulrich, 5539.
 medialis n. sp., Ulrich, 5539.
 nasuta Hall, Ulrich, 5539.
 nitida Ulrich, Ulrich, 5539.
 obliqua Hall, Ulrich, 5539.
 oviformis n. sp., Ulrich, 5539.
 perminuta n. sp., Ulrich, 5535.
 planodorsata Ulrich, Ulrich, 5539.
 recurva Ulrich, Ulrich, 5539.
 retrorsa n. sp., Ulrich, 5535.
 scofieldi n. sp., Ulrich, 5539.
 similis Ulrich, Ulrich, 5539.
 simulatrix n. sp., Ulrich, 5539.
 socialis n. sp., Ulrich, 5539.
 subnasuta n. sp., Ulrich, 5539.
 (*Nucula*) *sectoralis*, Lane, 3400.
Ctenodus fleisheri n. sp., Newberry, 4082.
 (*Sagenodus*) *angustus* n. sp., Newberry, 4082.
Ctenophyllum angustifolium Fontaine, Ward, 5857.
 braunianum abbreviatum (Friedrich Braun) Schimper, Ward, 5857.
 braunianum angustum (Friedrich Braun) Schimper, Ward, 5857.
 densifolium Fontaine, Ward, 5857.
 grandifolium storrsei Fontaine, Ward, 5857.
 grandifolium Fontaine, Ward, 5857.
 lineare (Emmons) Fontaine, Ward, 5857.
 robustum (Emmons) Fontaine, Ward, 5857.
 wannerianum Fontaine, n. sp., Ward, 5857.
 wardii Fontaine, Ward, 5857.
Ctenopyge acadica n. sp., Matthew, 3751.
Cucullæa Lamarck, Dall, 1272.
Cucullæa bowersiana n. sp., Cooper, 1071.
 comanchensis n. sp., Hill, 2539.
 gigantea Conrad, Clark, 906.
 gigantea var., Harris, 2313.
 gracilis n. sp., Cragin, 1115.
 gratioti Hill, Cragin, 1115.
 hagnei Meek, Stanton, 5206.
 macrodonta, Harris, 2310.
 matthewsoni Gabb, Stanton, 5198.
 ponderosa n. sp., Whiteaves, 6095a.
 saffordi, Harris, 2310.
 terminalis Con., Cragin, 1115.
 tippiana Con., Cragin, 1115.

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- Cucullæa transpecosensis* n. sp., Cragin, 1115.
 (*Trigonarca*) *catorcensis* n. sp., Aguilera, 57.
Cultellus Schumacher, Dall, 1281.
 (*Ensiculus*) *Conradi* Cossmann, Hall, 1281.
Cumingia Sowerby, Dall, 1281.
 californica Conrad, Dall, 1281.
 coarctata Sowerby, Dall, 1281.
 lamellosa Sowerby, Dall, 1281.
 medialis Conrad, Dall, 1281.
 tellinoides Conrad, Dall, 1281.
Cuneamya Hall and Whitfield, Ulrich, 5539.
 oblonga n. sp., Ulrich, 5539.
 sulcodorsata n. sp., Ulrich, 5534.
 truncatula n. sp., Ulrich, 5539.
Cunninghamites elegans (Corda.) Endl., Hollick, 2698.
 elegans (Corda.) Endl., Newberry, 4080.
 sqamosus Heer, Hollick, 2698.
 ? sp., Knowlton, 3264.
Cuspidaria prima, Harris, 2313.
Cyamium Phillippi, Dall, 1281.
Cyamodus, Case, 768.
Cyathaxonina bordeni, n. sp., Greene, 2162d.
 compressa, n. sp., Greene, 2162a.
 parva, n. sp., Greene, 2162d.
 winchelli n. sp., Rowley, 4677a.
Cyathocrinus Miller, Weller, 6002.
 andersoni n. sp., Miller and Gurley, 3997a.
 benedicti n. sp., Miller, 3992.
 blairi, Miller and Gurley, 3999, 4000.
 brittsi n. sp., Miller and Gurley, 3998.
 chouteauensis n. sp., Miller and Gurley, 3998, 4000.
 cora Hall, Weller, 6002.
 enormis Meek and Worthen, Keyes, 3061.
 faberi n. sp., Miller and Gurley, 4001.
 gurleyi n. sp., Miller, 3992, 3995.
 iowensis Owen and Shumard, Keyes, 3061.
 labyrinthicus n. sp., Miller, 3992.
 macadamsi n. sp., Miller and Gurley, 3998.
 maxvillensis n. sp., Whitfield, 6099.
 opimus n. sp., Miller and Gurley, 3991.
 signatus n. sp., Miller and Gurley, 3997a.
 somersi Whitfield, 6099.
 tumidulus n. sp., Miller and Gurley, 3997a.
 turbinatus n. sp., Weller, 6002.
 vanhornei Miller, Weller, 6002.
 vimalis, Whitfield, 6098.
 waldronensis Miller and Dyer, Miller and Gurley, 3999.
Cyathophycus quebecense Dawson, Dawson, 1452.
 quebecensis Dawson, Rauff, 4548.
 reticulatus Walcott, Rauff, 4548.
 siluriana n. sp., James, 2881.
Cyathophyllum Goldfuss, Grabau, 2086.
 anticostiense Billings, Lambe, 3375.
 articulatum Wahlenberg, Lambe, 3375.
 cæspitosum Goldfuss (?), Girty, 2038.
 conatum Hall, Grabau, 2086.
 cornicula Rominger, Keyes, 3061.
 dawsoni n. sp., Lambe, 3375.
 glabrum n. sp., Keyes, 3061.
 petraoides n. sp., Whiteaves, 6074.

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- Cyathophyllum spenceri* n. sp., Lamb, 3375.
waskasense n. sp., Whiteaves, 6074.
Cybele winchelli n. sp., Clarke, 952.
Cycadella n. gen., Ward, 5859.
 becheriana n. sp., Ward, 5857, 5859.
 carbonensis n. sp., Ward, 5857, 5859.
 cirrata n. sp., Ward, 5857, 5859.
 compressa n. sp., Ward, 5857, 5859.
 concinna n. sp., Ward, 5857, 5859.
 contracta n. sp., Ward, 5857, 5859.
 crepidaria n. sp., Ward, 5857, 5859.
 exogena n. sp., Ward, 5857, 5859.
 ferruginea n. sp., Ward, 5857, 5859.
 gelida n. sp., Ward, 5857, 5859.
 gravis n. sp., Ward, 5857, 5859.
 jejuna n. sp., Ward, 5857, 5859.
 jurassica n. sp., Ward, 5857, 5859.
 knightii n. sp., Ward, 5857, 5859.
 knowltoniana n. sp., Ward, 5857, 5859.
 nodosa n. sp., Ward, 5857, 5859.
 ramentosa n. sp., Ward, 5857, 5859.
 reedii n. sp., Ward, 5857, 5859.
 verrucosa n. sp., Ward, 5857, 5859.
 wyomingensis n. sp., Ward, 5857, 5859.
Cycadeoidea Buckland, Ward, 5856.
 aspera n. sp., Ward, 5855, 5856.
 colei n. sp., Ward, 5855, 5856.
 colossalis n. sp., Ward, 5855, 5856.
 cicatricula n. sp., Ward, 5855, 5856.
 dacotensis (McBride) Ward emend, Ward, 5855, 5856.
 emmonsi (Fontaine) Ward, Ward, 5857.
 excelsa n. sp., Ward, 5855, 5856.
 formosa n. sp., Ward, 5855, 5856.
 furcata n. sp., Ward, 5855, 5856.
 helioborea n. sp., Ward, 5858.
 ingens n. sp., Ward, 5855, 5856.
 ingens Ward, Wieland, 6131, 6132.
 insolita n. sp., Ward, 5855, 5856.
 jennyana n. sp., Ward, L. F., 5847, 5855, 5856.
 marshiana n. sp., Ward, 5855, 5856.
 mcbridei n. sp., Ward, 5855, 5856.
 minima n. sp., Ward, 5858.
 minnekahtensis n. sp., Ward, 5855, 5856.
 nana n. sp., Ward, 5855, 5856.
 nigra Ward n. sp., Ward, 5857.
 occidentalis n. sp., Ward, 5855, 5856.
 paynei n. sp., Ward, 5855, 5856.
 protea n. sp., Ward, 5858.
 pulcherrima n. sp., Ward, 5855, 5856.
 reticulata n. sp., Ward, 5858.
 rhombica n. sp., Ward, 5858.
 stillwelli n. sp., Ward, 5855, 5856.
 superba n. sp., Ward, 5858.
 turrita n. sp., Ward, 5855, 5856.
 utopiensis n. sp., Ward, 5858.
 wellsi n. sp., Ward, 5855, 5856.
 wielandi n. sp., Ward, 5856.
Cycadeomylon yorkense Fontaine n. sp., Ward, 5857.
Cycadeospermum columnare n. sp., *Lesquereux, 3470.
 lineatum n. sp., Lesquereux, 3470.
 rotundatum Font., Fontaine, 1846, 1850.

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- Cycadeospermum wanneri* Fontaine n. sp., Ward, 5857.
Cycadinocarpus circularis n. sp., Newberry, 4080.
Cycadites acutus Emmons, Ward, 5857.
 pungens n. sp., Lesquereux, 3470.
 tenuinervis Fontaine, Ward, 5857.
Cyclamina placenta, Bagg, 148.
Cyclococrinus n. gen., Miller, 3995.
 canaliculatus n. sp., Miller, 3995.
Cyclocadia Lindley and Hutton, White, 6050.
 brittsii n. sp., White, 6050.
Cycloceypris californica n. sp., Chapman, 869.
Cyclocystoides cincinnatensis n. sp., Miller and Faber, 3994.
 illinoisensis n. sp., Miller and Gurley, 3997d.
Cyclognathus rotundifrons Matt., Matthew, 3746.
Cyclolittites, Hyatt, 2819.
 americanus, Hyatt, 2819.
Cycloneoncha mediocardinalis, Ulrich, 5535.
 ovata n. sp., Ulrich, 5535.
Cyclonema Hall, Ulrich and Scofield, 5541.
 bilix, Foerste, 1835.
 bilix (Conrad), Keyes, 3062.
 bilix Conrad, Ulrich and Scofield, 5541.
 gracile n. sp., Ulrich and Scofield, 5541.
 humerosum n. sp., Ulrich and Scofield, 5541.
 inflatum n. sp., Ulrich and Scofield, 5541.
 mediale n. sp., Ulrich and Scofield, 5541.
 pulchellum n. sp., Miller and Gurley, 4002.
 pyramidatum James, Ulrich and Scofield, 5541.
 simulans n. sp., Ulrich and Scofield, 5541.
 transversum n. sp., Ulrich and Scofield, 5541.
 varicosum Hall, Ulrich and Scofield, 5541.
 (?) *Holopea* *limatum* n. sp., Ulrich and Scofield, 5541.
Cyclopora, Simpson, 4983.
Cycloporina n. gen., Simpson, 4980, 4983.
Cyclops tenuicornis, Beecher, 366.
Cyclorhina Hall, Hall and Clarke, 2261a, 2264.
Cyclospira n. gen., Hall and Clarke, 2261, 2264.
Cyclospira, Winchell and Schuchert, 6319.
 bisulcata Emmons sp.? Winchell and Schuchert, 6319.
 (?) *sparsi-plica* n. sp., Foerste, 1835.
 (Protozyga) Hall, Hall and Clarke, 2264.
Cyclosporgia discus n. gen. et sp., Miller, 3992.
Cyclostrema aldrichi n. sp., Harris, 2316.
 chipolanum n. sp., Dall, 1259.
Cylichna aldrichi, Aldrich, 74.
 aldrichi Lang., Harris, 2316.
 meyeri n. sp., Aldrich, 73.
 meyeri, Harris, 2310.
 recta, Whitfield, 6097.
 sylværupus n. sp., Harris, 2316.
 venusta Clark, Clark, 904, 906.
 sp., Harris, 2310.
Cylichnella atysopsis n. sp., Harris, 2307.
 bidentata var. *galvestonensis* n. var., Harris, 2309.

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- Cylicocerinus* (?) *indianensis* n. sp., Miller and Gurley, 3997d.
- Cylindrella floridana* n. sp., Dall, 1259.
- Cylindrites formosus* n. sp., Cragin, 1115.
- Cylindrocellia*, James, 2881.
- Cylindrocellia* Ulrich, Winchell and Schuchert, 6318.
- covingtonensis* James, 2881.
- minnesotensis* Ulrich, Winchell and Schuchert, 6318.
- Cylindrophyllum* n. gen., Simpson, 4984.
- Cyllene bellana* n. sp., Harris, 2311, 2316.
- Cymatoceras elegans* (?), Hyatt, 2819.
- deslonchampsianum*, Hyatt, 2819.
- radiatum*, Hyatt, 2819.
- simplex* (?), Hyatt, 2819.
- Cymatonetia attenuata* n. sp., Ulrich, 5535.
- constricta* n. sp., Ulrich, 5535.
- productifrons*, n. sp., Ulrich, 5535.
- recta* n. sp., Ulrich, 5535.
- semistriata* n. sp., Ulrich, 5535.
- typicalis* n. sp., Ulrich, 5535.
- Cymba* (*Eucymba*) Dall, Dall, 1259.
- Cymindis extorpesceus* n. sp., Scudder, 4900.
- Cynocercus*, Williston, 6245.
- incisus*, Williston, 6245.
- Cynodontia*, Case, 768.
- Cynognathus*, Case, 768.
- Cyperacites giganteus* n. sp., Knowlton, 3255.
- (?) sp., Knowlton, 3255, 3264.
- Cyperites*, Dawson, 1434.
- paucinervis* Heer, Dawson, 1448.
- sp., Hollick, 2708.
- Cyphaspis* Burmeister, Grabau, 2086.
- bellula* n. sp., Whiteaves, 6074.
- clintonensis*, Foerste, 1835.
- galenensis* n. sp., Clarke, 952.
- girardeauensis* Shumard, Keyes, 3061.
- minuscula* Hall (sp.), Clarke, 971.
- ornata* Hall, Grabau, 2086.
- Cyphocrinus* n. gen., Miller, 3995.
- Cyphocrinus* S. A. Miller, Weller, 6002.
- chicagoensis* n. sp., Weller, 6002.
- gorbyi* n. sp., Miller, 3995.
- Cyphornis magnus* n. gen. et sp., Cope, 1094.
- Cyphosoma volanum* n. sp., Cragin, 1115.
- Cypræa dalli* n. sp., Aldrich, 71.
- kennedyi* n. sp., Harris, 2307.
- heilprinii* n. sp., Dall, 1259.
- pinguis* Conrad, Dall, 1259.
- pinguis* Con., Harris, 2311.
- sabuloviridis* n. sp., Whitfield, 6097.
- smithi* Ald., Harris, 2311, 2316.
- suciensis* nom. prov., Whiteaves, 6085.
- wilcoxi* n. sp., Dall, 1259.
- (*Aricia*) *mortoni*, Whitfield, 6097.
- (*Siphocypræa*) *heilprin*, Dall, 1259.
- problematica* Heilprin, Dall, 1259.
- sp., Harris, 2310.
- Cypria subangulata* n. sp., Chapman, 869.
- Cypricardella* Hall, Grabau, 2086.
- bellistriata* (Conrad), Grabau, 2086.
- eximia* n. sp., Miller and Gurley, 4002.
- gorbyi* n. sp., Miller, 3992.
- hartti* n. sp., Clarke, 976.

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- Cypricardella pohli* n. sp., Clarke, 976.
- producta* n. sp., Whiteaves, 6074.
- Cypricardia*? *haguei* n. sp., Stanton, 5206.
- Cypricardinia* Hall?, Grabau, 2086.
- indenta* Conrad, Clarke, 971.
- indenta* (Conrad), Grabau, 2086.
- undulostriata*, Foerste, 1835.
- sulcifera* (Win.), Weller, 6006.
- Cypricardites caswelli*, Foerste, 1835.
- cingulata* n. sp., Ulrich, 5534.
- germanus* n. sp. or var., Ulrich, 5534.
- glabellus* n. sp., Ulrich, 5534.
- haynianus*?, Safford, Ulrich, 5534.
- modestus* n. sp., Ulrich, 5531.
- nanus* n. sp., Ulrich, 5534.
- niota*, Whitfield, 6102.
- obtusifrons* n. sp., Ulrich, 5534.
- oviformis* n. sp., Ulrich, 5531.
- rectirostris*, Whitfield, 6102.
- rotundatus*, Whitfield, 6102.
- sardesoni* n. sp., Ulrich, 5534.
- tenellus* n. sp., Ulrich, 5534.
- terminalis* n. sp., Ulrich, 5534.
- Cypridea texana* n. sp., Hill, 2539.
- tuberculata* var. *wyomingensis* nov., Jones, 2934.
- Cypridopsis plicanica* n. sp., Chapman, 869.
- Cyprimeria crassa* Mk., Cragin, 1115.
- excavata* (Mort.), Cragin, 1115.
- gigantea* n. sp., Cragin, 1115.
- lens* Whiteaves, Whiteaves, 6085.
- texana*, Roem., Cragin, 1115.
- Cyprina*? *cinnabarensis* n. sp., Stanton, 5206.
- dalli* Ald., Harris, 2315.
- (?) *iddingsi* n. sp., Stanton, 5206.
- mediale* Con., Cragin, 1115.
- occidentalis* Whiteaves, Stanton, 5199.
- procera* n. sp., Chapman, 869.
- roemeri* n. sp., Cragin, 1115.
- texana* Con., Cragin, 1115.
- (?) *Roudairia*) *streeruwitzi* n. sp., Cragin, 1115.
- Cyprinidae*, Cope, 1086.
- Cypris dawsoni* n. sp., Jones, T. R., 2935.
- ovum*, Beecher, 366.
- purbeckinsis*, Jones, 2934.
- Cyrena æquilateralis* Meek?, Stanton, 5191.
- inflexa* Meek, Stanton, 5191.
- securis* Meek, Herrick and Johnson, 2465.
- (*Veloritina*) *securis* Meek, Stanton, 5191.
- sp., Herrick and Johnson, 2465.
- Cyrella* subgen., A. Adams, Dall, 1272.
- Cyrtia Dalman*, Hall and Clarke, 2261.
- burlingtonensis* n. sp., Rowley, 4673.
- radians* n. sp., Hall and Clarke, 2261a, 2263, 2268.
- Cyrtina Davidson*, Grabau, 2086.
- Cyrtina Davidson*, Hall and Clarke, 2264.
- acutirostris* (Shumard), Keyes, 3062.
- hamiltonensis* Hall, Grabau, 2086.
- var. *recta* Hall, Grabau, 2086.
- lachrymosa* n. sp., Hall and Clarke, 2261a, 2263, 2268.
- neogenes*, Hall and Clarke, 2268.
- umbonata*, var. *alpenensis* n. var., Hall and Clarke, 2261a, 2263, 2268.

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- Cyrtina varia* n. sp., Clarke, 971.
Cyrtocalpis, Matthew, G. F., 3760.
Cyrtoceras Goldfuss 1832, Clarke, 953.
 billingsi Salter 1859, Clarke, 953.
 camurum Hall 1847, Clarke, 953.
 corniculum Hall 1862, Clarke, 953.
 clintonensis n. sp., Foerste, 1835.
 cretaceum, Whitfield, 6099.
 dumleithensis n. sp., Miller and Gurley, 4002.
 eugium, Whitfield, 6102.
 featherstonhaughii n. sp., Clarke, 953.
 hullianum d'Orbigny 1850, Clarke, 953.
 houghtoni n. sp., Clarke, 953.
 howardi n. sp., Miller, 3995.
 indianense n. sp., Miller, 3992.
 kansasense n. sp., Miller and Gurley, 3998.
 kirbyi (?) Whitfield, Cleland, 1012.
 laticurvatum n. sp., Whiteaves, 6083, 6087.
 loculosum, Whitfield, 6102.
 luthei n. sp., Calvin, 684.
 manitobense Whiteaves, Whiteaves, 6087.
 minneapolis n. sp., Clarke, 953.
 nashvillense n. sp., Miller, 3992.
 neleus Hall 1861, Clarke, 953.
 neleus, Whitfield, 6102.
 norwoodi n. sp., Clarke, 953.
 orodes Billings, Whiteaves, 6080.
 quebecense n. sp., Whiteaves, 6089.
 saffordi n. sp., Miller, 3992.
 scofieldi n. sp., Clarke, 953.
 shumardi n. sp., Clarke, 953.
 thompsoni n. sp., Miller, 3995.
 unicorne Win., Weller, 6006.
 whitneyi, Whitfield, 6102.
 (*Glyptoceras*) *eatonense*, Foerste, 1835.
 (*Glyptoceras*) *subcompressum*, Foerste, 1835.
 (*Glyptodendron*) *eatonense*, Foerste, 1832.
 sp. (?), Cleland, 1012.
Cyrtocerina (?) *schoolecrafti* n. sp., Clarke, 953.
Cyrtoclymenia *neapolitana* Clarke, Clarke, 960.
Cyrtodaria *siliqua* Daudin, Dall, 1259.
Cyrtodonta Billings, Ulrich, 5539.
 affinis n. sp., Ulrich, 5539.
 ampla n. sp., Ulrich, 5539.
 billingsi n. sp., Ulrich, 5539.
 canadensis Billings, Whiteaves, 687.
 cingulata Ulrich, Ulrich, 5539.
 gibbera n. sp., Ulrich, 5539.
 glabella Ulrich, Ulrich, 5539.
 grandis Ulrich, Ulrich, 5539.
 janesvillensis n. sp., Ulrich, 5539.
 obesa n. sp., Ulrich, 5539.
 obliqua Meek and Worthen, Ulrich, 5539.
 oviformis Ulrich, Ulrich, 5539.
 parva n. sp., Ulrich, 5539.
 persimilis n. sp., Ulrich, 5539.
 rotulata n. sp., Ulrich, 5539.
 subovata n. sp., Ulrich, 5539.
 tenella Ulrich, Ulrich, 5539.
Cyrtodontidae n. fam., Ulrich, 5539.
Cyrtolites Conrad, Ulrich and Scofield, 5541.
 carinatus Miller, Ulrich and Scofield, 5541.

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- Cyrtolites* (?) *dilatatus* n. sp., Ulrich and Scofield, 5541.
 disjunctus n. sp., Ulrich and Scofield, 5541.
 expansus Hall, Clarke, 971.
 ornatus Conrad, Ulrich and Scofield, 5541.
 parvus n. sp., Ulrich and Scofield, 5541.
 retrosus n. sp., Ulrich and Scofield, 5541.
 var. *filmorensis* n. var., Ulrich and Scofield, 5541.
Cyrtolithes *atlantoides* n. sp., Matthew, 3751.
Cyrtometopus n. gen., Ulrich and Scofield, 5541.
 nitidula Ulrich, Ulrich and Scofield, 5541.
 scofieldi n. sp., Clarke, 952.
Cyrtospira n. gen., Ulrich and Scofield, 5541.
 bleurvata n. sp., Ulrich and Scofield, 5541.
 tortilis n. sp., Ulrich and Scofield, 5541.
 wykoensis n. sp., Ulrich and Scofield, 5541.
Cyryoceras (?) sp., Clarke, 976.
Cystelasma *lanesvillense* n. gen. et sp., Miller, 3992.
Cystiphyllum *Lonsdale*, Grabau, 2086.
 aggregatum Billings, Lambe, 3375.
 americanum E. and H., Grabau, 2086.
 americanum Edwards and Haimé, Keyes, 3061.
 cerassatum, n. sp., Greene, 2162a.
 confolliis Hall, Grabau, 2086.
 constrictum, n. sp., Greene, 2162c.
 gemmatum, n. sp., Greene, 2162a.
 gemma, n. sp., Greene, 2162a.
 greenii n. sp., Miller, 3995.
 infundibuliformis, n. sp., Greene, 2162c.
 invaginatum, n. sp., Greene, 2162d.
 laciniatum, n. sp., Greene, 2162a.
 lamellatum, n. sp., Greene, 2162c.
 niagarensis Hall sp., Lambe, 3375.
 osculum, n. sp., Greene, 2162c.
 ossiculum, n. sp., Greene, 2162a.
 parasiticum, n. sp., Greene, 2162c.
 varians Hall, Grabau, 2086.
 vesiculosum Goldfuss sp., Lambe, 3375.
Cystodictya *Simpson*, 4983.
 divisa n. sp., Rogers, 4656.
 inequimarginata n. sp., Rogers, 4656.
 sp., Herrick and Bendrat, 2464.
Cystopora, *Simpson*, 4983.
Cythera *crassimarginata*, Lane, 3400.
 gibba n. sp., Guppy and Dall, 2214.
 guppyi n. sp., Guppy and Dall, 2214.
 monticula, n. sp., Jones, 2934.
 mucronata n. sp., Guppy and Dall, 2214.
 obtus n. sp., Guppy and Dall, 2214.
 terminula n. sp., Dall, 1259.
Cytherea *arata* Gabb, Whiteaves, 6085.
 concentrica, Say, 4813.
 convexa, Say, 4813.
 eversa Conrad, Clark, 906.
 lamarensis Shum, Cragin, 1115.
 leveretti n. sp., Cragin, 1115.
 newcombei, n. sp., Merriam, 3919, 3923.
 ovata Rogers, Clark, 906.
 subimpressa Conrad, Clark, 906.

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Genera and species described—Continued.

- Cytherea* taffi n. sp., Cragin, 1115.
 vancouverensis n. sp., Merriam, 3919, 3923.
- Cytherella* Jones and Bosquet, Ulrich, 5540.
- Crucifera* n. sp., Jones, T. R., 2935.
 (?) *rugosa* Jones, Ulrich, 5540.
 var. *arcta* n. var., Ulrich, 5540.
 (?) *subrotunda* n. sp., Ulrich, 5540.
- Cytheridea* tenuis n. sp., Jones, 2934.
 truncata n. sp., Jones, 2934.
 tyrrellii n. sp., Jones, T. R., 2935.
- Cytherideis* æqualis n. sp., Jones, 2934.
 impressa n. sp., Jones, 2934.
- Cytilus tartarinus* n. sp., Scudder, 4900.
- Cyttaromyia*, Scudder, 4894.
 cancellata, Scudder, 4894.
 clathrata, Scudder, 4894.
 oligocena, Scudder, 4894.
 princetoniana, Scudder, 4894.
- Czekanowskia* capilaris n. sp., Newberry, 4080.
 nervosa Heer, Fontaine, 1850.
- Dactylodus* N. and W., Newberry, 4082.
 latus n. sp., Newberry, 4082.
 princeps N. and W., Newberry, 4082.
 rectus n. sp., Newberry, 4082.
- Dactylodites asteroides* Fitch, Walcott, 5811.
- Dactyloporus* archæus, Herzer, 2501.
- Daemonelix*, Barbour, 231.
 anaxilis, Barbour, 230.
 bispiralis, Barbour, 230.
 carinati, Barbour, 230.
 circumaxilis, Barbour, 230.
 circumaxilis, James, 2894.
 robusta, Barbour, 230.
- Dakbergia* apiculata n. sp., Newberry, 4080.
- Dallina* Beecher, Hall and Clarke, 2264.
- Dalmanella*, Hall and Clarke, 2260.
 holiensis, n. sp., Cleland, 1012.
 perelegans Hall, Clarke, 971.
 subcarinata Hall, Girty, 2037.
 (Orthis) wempelei, n. sp., Cleland, 1012.
- Dalmanites* achates Billings, 1860, Clarke, 952.
 bisignatus n. sp., Clarke, 971.
 hausmanni, Beecher, 366.
 phacoptyx Hall and Clarke, Clarke, 971.
 pleuroptyx (Green), Girty, 2037.
 socialis, Beecher, 366.
 tridentifera (Shumard), Keyes, 3061.
 werthneri, Foerste, 1835.
 (Synphoria) stemmatus n. sp., Clarke, 971.
 var. *convergens* n. var., Clarke, 971.
- Dammara borealis* Heer, Newberry, 4080.
- Dammara* (?) cliffwoodensis n. sp., Hollick, 2698.
 microlepis Heer, (?) Hollick, 2696.
- Dammarites* caudatus Lesq., Lesquereux, 3470.
 dubius n. sp., Dawson, 1436.
 emarginatus Lesq., Lesquereux, 3470.
- Danæopsis* ? sp., Fontaine, Ward, 5857.
- Daonella bochiformis* n. sp., Hyatt, 2818.
 cardinoides n. sp., Hyatt, 2818.
- Daonella* subjecta (?), Hyatt, 2818.
- Daphnella* cingulata n. sp., Dall, 1259.

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Genera and species described—Continued.

- Daphnella* elata Dall, Dall, 1259.
 modesta n. sp., Dall, 1259.
- Daphnia longispina*, Beecher, 366.
- Daphnogene kanii* (?) Heer, Hollick, 2708.
- Daphnophyllum angustifolium* n. sp., Lesquereux, 3470.
 dakotense n. sp., Lesquereux, 3470.
- Daptimus broadheadi* n. sp., Stewart, 5237.
- Darina* Gray, Dall, 1272.
- Davidsonella* Munier-Chalmas, Hall and Clarke, 2264.
- Davidsonia* Bouchard, Hall and Clarke, 2260.
- Daviesiella* Waagen, Hall and Clarke, 2260.
- Davila* Gray, Dall, 1272.
- Dawsonia*, James, 2881.
 monodon n. sp., Gurley, 2217.
 silquaria, James, 2881.
 tridens n. sp., Gurley, 2217.
- Dawsonites* n. gen., Scudder, 4889.
 veter n. sp., Scudder, 4889.
- Dayia* Davidson, Hall and Clarke, 2261, 2264.
- Decadocrinus grandis*, Springer, 5163.
 tumidulus, Springer, 5163.
- Deinodon* Leidy, Hay, 2384.
- Dekayella*, Simpson, 4983.
- Dekayella* Ulrich, Ulrich, 5537.
 prænuntia n. sp., Ulrich, 5537.
 var. *echinata* n. var., Ulrich, 5537.
 var. *multipora* n. var., Ulrich, 5537.
 var. *nævigera* n. var., Ulrich, 5537.
 var. *simplex* n. var., Ulrich, 5537.
- Dekayia*, Simpson, 4983.
- Dekayia* Edwards and Haime, Ulrich, 5537.
 trentonensis Ulrich, Ulrich, 5537.
- Delocrinus* n. gen., Miller and Gurley, 3991.
 hemisphericus Shumard, Miller and Gurley, 3991.
 missouriensis n. sp., Miller and Gurley, 3991.
- Deltatherium fundaminis* Cope, Osborn and Earle, 4191.
- Deltoceras* n. gen., Hyatt, 2819.
 planum n. sp., Hyatt, 2819.
- Deltodus complanatus* N. and W., Newberry, 4082.
 grandis N. and W., Newberry, 4082.
 inornatus n. sp., Newberry, 4082.
 planidens n. sp., Cope, 1093.
 spatulatus N. and W., Newberry, 4082.
- Dendracis cantabridgiensis* n. sp., Vaughan, 5734.
 tubulata (Lonsdale), Vaughan, 5735.
- Dendroclonella* n. gen., Rauff, 4549.
 rugosa n. sp., Rauff, 4549.
- Dendrograptus*, James, 2881.
 gracillimum, James, 2881.
 cf. *serpens* Hopkinson, Gurley, 2217.
 tenuiramosus, James, 2881.
 unilaterialis n. sp., Gurley, 2217.
- Dendrophycusschoemakeri* Ward n. sp., Ward, 5857.
- Dendrophyllia lisbonensis*, n. sp., Vaughan, 5735.
- Dendrophyllia striata*, n. sp., Vaughan, 5735.
- Dentalium attenuatum*, Say, 4813.

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- Dentalium caduloide* n. sp., Dall, 1259.
californicum n. sp., Stanton, 5199.
caloosense n. sp., Dall, 1259.
grandævum Win., Weller, 6006.
martini, Whitfield, 6098.
mediaviense, Harris, 2310.
microstria Heilprin, Aldrich, 73.
microstria Heilp., Harris, 2316.
multannulatum n. sp., Aldrich, 73.
multannulatum Ald., Harris, 2316.
prisma n. sp., Dall, 1259.
ripleyanum, Whitfield, 6097.
subarcuatum, Whitfield, 6097.
thalloides Con., Harris, 2316.
tetragonum, Harris, 2309.
(Falcula) falcatum, Whitfield, 6097.
Derbya Waagen, Hall and Clarke, 2260.
affinis n. sp., Hall and Clarke, 2260.
bennetti n. sp., Hall and Clarke, 2261, 2268.
biloba n. sp., Hall and Clarke, 2260, 2268.
broadheadi n. sp., Hall and Clarke, 2260, 2268.
costatula n. sp., Hall and Clarke, 2260, 2268.
crassa, Lane, 3400.
cymbula n. sp., Hall and Clarke, 2260, 2268.
keokuk Hall (?), Girty, 2038.
ruginosa n. sp., Hall and Clarke, 2260, 2268.
Desmatochelys lowii en. gen. et sp., Williston, 6225.
lowii, Williston, 6245.
Desmoceras affine n. sp., Whiteaves, 6073.
 var. *glabrum*, Whiteaves, 6073.
athabascense n. sp., Whiteaves, 6073.
breweri, Whiteaves, 6095a.
californicum n. sp., Stanton, 5199.
dawsoni n. sp., Whiteaves, 6095a.
haydenii, Whiteaves, 6095a.
latidorsatum Michelin, Whiteaves, 6095a.
maudense, Whiteaves, 6095a.
perezianum, Whiteaves, 6095a.
(Puzosia) planulatum? Sowerby, Whiteaves, 6095a.
Desmograptus devonicus n. sp., Gurley, 2217.
macrodictyum n. sp., Gurley, 2217.
Desmophyllum willcoxi n. sp., Gane, 1934.
Deuterosaurus, Case, 768.
Devallia? montana n. sp., Knowlton, 3255.
Devalquena dakotensis n. sp., Lesquereux, 3470.
groenlandica Heer (?), Hollick, 2696.
grönlandica Heer (?), Newberry, 4080.
primordialis n. sp., Lesquereux, 3472.
trifoliata n. sp., Newberry, 4080.
Diadactes, Case, 768.
Diademodon, Case, 768.
Diamesopora, Simpson, 4983.
Diamesopora Hall, Ulrich, 5537.
 trentonensis n. sp., Ulrich, 5537.
Dianulites, Simpson, 4983.
Diaphorostoma? agassizi, n. sp., Clarke, 976.
 darwini, n. sp., Clarke, 976.
 desmatum n. sp., Clarke, 971.
 furmanianum, Hartt and Rathbun (sp.), Clarke, 976.

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- Diaphorostoma ventricosum* Conrad, Clarke, 971.
Diastoporina, Simpson, 4983.
Diastoporina Ulrich, Ulrich, 5537.
 flabellata Ulrich, Ulrich, 5537.
Diatomaceæ, Edwards, 1616.
Diatomaceæ, Elmore, 1664.
Diatoms, Boyer, 517.
Dibelodon humboldtii Cuvier, Cope, 1087.
 præcursor Cope, Cope, 1087.
 tropicus Cope, Cope, 1087.
Dicamara Hall, Hall and Clarke, 2264.
Dicelloccephalus, Owen, Berkeley, 429.
 misa Hall, Berkeley, 429.
Dicellograpsus gurleyi Lapworth n. sp., Gurley, 2217.
 intortus var. *polythecatus* n. var., Gurley, 2217.
Dicellomus Hall, Walcott, 5816.
 nanus M. and H. sp., Walcott, 5816.
Diceratherium, Hatcher, 2334.
 douvillei n. sp., Osborn, 4221.
 proavatum, Hatcher, 2338.
Dichocoenia alabamensis n. sp., Vaughan, 5735.
Dichocrinus Münster, Wachsmuth and Springer, 5765a.
 angustus White, Wachsmuth and Springer, 5765a.
 blairi Miller, Keyes, 3061.
 blairi n. sp., Miller, 3992.
 blairi S. A. Miller, Wachsmuth and Springer, 5765a.
 bozemanaensis n. sp., Miller and Gurley, 4003.
 cinctus Miller and Gurley, Wachsmuth and Springer, 5765a.
 cinctus n. sp., Miller and Gurley, 3991.
 conus Meek and Worthen, Wachsmuth and Springer, 5765a.
 coxanus Worthen, Wachsmuth and Springer, 5765a.
 crassitestus White, Wachsmuth and Springer, 5765a.
 delicatus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
 diehotomus Hall, Wachsmuth and Springer, 5765a.
 ficus Cass. and Lyon, Wachsmuth and Springer, 5765a.
 ficus Casseday and Lyon, Keyes, 3061.
 hamiltonensis Worthen, Wachsmuth and Springer, 5765a.
 humberti, Miller, 3992.
 humberti S. A. Miller, Wachsmuth and Springer, 5765a.
 huntsvillae W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
 inornatus W. and Sp., Wachsmuth and Springer, 5765a.
 lachrymosus Hall, Wachsmuth and Springer, 5765a.
 laevis Hall, Wachsmuth and Springer, 5765a.
 lineatus Meek and Worthen, Wachsmuth and Springer, 5765a.

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- Dichocrinus liratus* Hall, Wachsmuth and Springer, 5765a.
oblongus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
ornatus W. and Sp., Wachsmuth and Springer, 5765a.
ovatus O. and Shum., Wachsmuth and Springer, 5765a.
parvulus S. A. Miller, Wachsmuth and Springer, 5765a.
pendens W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
pentalobus (Cass. and Lyons), Wachsmuth and Springer, 5765a.
pisum Meek and Worthen, Wachsmuth and Springer, 5765a.
plicatus Hall, Wachsmuth and Springer, 5765a.
polydactylus Casseday and Lyon, Wachsmuth and Springer, 5765a.
scitulus Hall, Wachsmuth and Springer, 5765a.
striatus O. and Shum., Wachsmuth and Springer, 5765a.
striatus Owen and Shumard, Keyes, 3061.
superstes W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
ulrichi Miller and Gurley, Wachsmuth and Springer, 5765a.
ulrichi n. sp., Miller and Gurley, 3991.
Dichograptus logani Hall, Matthew, 3746.
nitidus (Hall), var., Matthew, 3746.
ramosus, James, 2881.
Dichograptus remotus n. sp., Gurley, 2217.
Dicolocapsa, Matthew, G. F., 3760.
Dicranella n. gen., Ulrich, 5540.
bicornis n. sp., Ulrich, 5540.
marginata n. sp., Ulrich, 5540.
(?) simplex n. sp., Ulrich, 5540.
spinosa n. sp., Ulrich, 5540.
Dicranograptus, James, 2881.
Dicranograptus furcatus (Hall), Gurley, 2217.
nicholsoni var. *diapason* n. var., Gurley, 2217.
nicholsoni var. *parvangelus* Gurley, Gurley, 2217.
Dicranomyia fontainei, Scudder, 4894.
fragilis, Scudder, 4894.
inferna, Scudder, 4894.
longipes, Scudder, 4894.
primitiva, Scudder, 4894.
rostrata, Scudder, 4894.
stagnorum, Scudder, 4894.
stigmosa, Scudder, 4894.
Dicranophyllum? sp., White, 6050.
Dicranopora, Simpson, 4983.
parva n. sp., Ami, 79.
Dictyocephalus, Matthew, G. F., 3760.
Dictyonema, James, 2881.
actinotum n. sp., Gurley, 2217.
arbusculum, James, 2881.
blairi n. sp., Gurley, 2217.
crassum n. sp., Girty, 2034.
delicatum Dawson, var., Matthew, 3746.

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Genera and species described—Continued.

- Dictyonema*, *flambelliforme* Eichwald, Matthew, G. F., 3762.
cf. neenah Hall, Gurley, 2217.
neenah, Whitfield, 6102.
perexile n. sp., Gurley, 2217.
cf. splendens Billings, Clarke, 971.
Dictyophytra(?) walcotti n. sp., Rauff, 4548.
Dictyopteris carrii (Lx.), White, 6049.
gilkersonensis D. W., White, 6049.
squarrosa Ett. sp., White, 6040.
Dictyorbhdus priscus n. gen. et sp., Walcott, 5780.
Dictiospongia n. gen., Hall and Clarke, 2269, 2270.
almondensis n. sp., Hall and Clarke, 2269, 2270.
(?) bacteria n. sp., Hall and Clarke, 2269, 2270.
charia n. sp., Hall and Clarke, 2269, 2270.
cylindrica Whitfield (sp.), Hall and Clarke, 2269, 2271.
eumorphia n. sp., Hall and Clarke, 2269, 2270.
haptera n. sp., Hall and Clarke, 2269, 2270.
lophura n. sp., Hall and Clarke, 2269, 2270.
(?) marcellia Clarke (sp.), Hall and Clarke, 2269, 2270.
morini Barrois (sp.), Hall and Clarke, 2269, 2270.
sceptrum Hall (sp.), Hall and Clarke, 2269, 2270.
sirea n. sp., Hall and Clarke, 2269, 2270.
(?) stylina n. sp., Hall and Clarke, 2269, 2270.
(Mastodictya) osculada n. sp., Hall and Clarke, 2269, 2270.
Dicynodon, Case, 758.
Didymictis Cope, Osborn, 4183.
haydenianus Cope, Matthew, 3801.
protenus varaltidens Cope, Osborn, 4193a.
Didymoceras n. gen., Hyatt, 2819.
nebrascense, Hyatt, 2819.
Didymograptus bipunctatus n. sp., Gurley, 2217.
convexus n. sp., Gurley, 2217.
hirundo Salter, Gurley, 2217.
perflexus n. sp., Gurley, 2217.
sagitticaulis n. sp., Gurley, 2217.
Didymosorus? *bindrabunensis acutifolius* Fontaine, Ward, 5857.
Dielasma King, Grabau, 2086.
Dielasma King, Hall and Clarke, 2261a, 2264.
obovatum, Hall and Clarke, 2268.
turgida, Beecher and Schuchert, 358.
turgida Hall var. *elongata* n. var., Weller, 5986.
utah Hall and Whitfield, Girty, 2038.
(Cranæna) romingeri Hall, Grabau, 2086.
(Cranæna) Hall, Hall and Clarke, 2264.
sp.?, Weller, 5994.
Dielasma Waagen, Hall and Clarke, 2261a, 2264.
Digoniceras n. gen., Hyatt, 2819.
rotundum n. sp., Hyatt, 2819.
Dillwynella naticoides Lea, Dall, 1259.
? texana n. sp., Harris, 2307.

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Genera and species described—Continued.

- Dilobella* n. gen., Ulrich, 5540.
typa n. sp., Ulrich, 5540.
Dimerella Zittel, Hall and Clarke, 2264.
Dimetrodon Cope, Baur and Case, 300.
incisivus Cope, Case, 763.
Dimorphodon, Case, 768.
Dimya grandis Dall, Dall, 1272.
grandis n. sp., Guppy and Dall, 2214.
Dinarella Bittner, Hall and Clarke, 2264.
Dinichthys, Clappole, 980, 990.
Dinichthys, Dean, 1469, 1473.
Dinichthys, Eastman, 1597, 1605.
Dinichthys, Wright, 6499, 6500.
canadensis n. sp., Whiteaves, 6096.
clarki, Clappole, 988.
clarki Clappole, Eastman, 1608.
gouldi Newberry, Dean, 1472.
gracilis, Clappole, 988.
halmodeus (Clarke), Eastman, 1608.
herzeri Newb., Eastman, 1608.
intermedius Newberry, Eastman, 1602.
kepleri n. sp., Clappole, 1004.
lincolni, Clappole, 988.
prentis-clarki, Clappole, 1003.
pustuosus, Eastman, 1602, 1608.
terrelli Newberry, Dean, 1472.
terrelli Newberry, Eastman, 1602.
Dinictis major n. sp., Lucas, 3584.
paucidens, Riggs, 4640.
? sp., Williston, 6228.
Dinobastis serus n. sp., Cope, 1095.
Dinobolus Hall, Hall and Clarke, 2260.
? parvus Whitfield, Winchell and Schuchert, 6319.
Dinornis, Case, 769.
Dinorthis, Hall and Clarke, 2260.
Dinosauria, Marsh, 3695.
Dinotomius atrox n. gen. et sp., Williston, 6228.
Dione marylandica, Whitfield, 6101.
sayana Conrad, Whitfield, 6101.
Dioonites buchanus Schimper, Fontaine, 1846.
buchianus var. *angustifolius* Font., Fontaine, 1846.
buchianus var. *rarinervis* n. var., Fontaine, 1846, 1847.
carallianus (Göppert) Bornemann, Ward, 5857.
dunkerianus (Göpp.) Miquel, Fontaine, 1846, 1847.
Dioristella Bittner, Hall and Clarke, 2264.
Diorugoceras n. gen., Hyatt, 2816.
Diospyros apiculata n. sp., Lesquereux, 3470.
branchysepala Al. Br., Knowlton, 3264.
calyx Dawson, 1436.
celastroides n. sp., Lesquereux, 3470.
cuspidata n. sp., Kirchner, 3817.
eminens n. sp., Dawson, 1436.
haguei n. sp., Knowlton, 3255.
lamarensis n. sp., Knowlton, 3255.
primæva Heer, Lesquereux, 3470.
primæva Heer, Newberry, 4080.
pseudonanceps n. sp., Lesquereux, 3470, 3472.

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Genera and species described—Continued.

- Diospyros rotundifolia* Lesq., Lesquereux, 3470.
steenstrupi Heer, Lesquereux, 3470.
vancouverensis Dn., Dawson, 1436.
Dipeltina n. subfam., Schuchert, 4850.
Dipeltis Packard (emend), Schuchert, 4850.
carri n. sp., Schuchert, 4850.
diplodiscus Packard, Schuchert, 4850.
Diphyphyllum adjunctum, n. sp., Greene, 2162c.
cæspitosum Hall sp., Lambe, 3375.
expansum, n. sp., Greene, 2162b.
laxum, n. sp., Greene, 2162c.
multicaule Hall sp., Lambe, 3375.
prolatum, n. sp., Greene, 2162c.
simcoense Billings sp., Lambe, 3375.
stokesi Edwards and Haime, Whiteaves, 6087.
unicum, n. sp., Greene, 2162.
wadsworthi, n. sp., Greene, 2162c.
Diplacanthus horridus n. sp., Woodward, 6435.
Diplitrypa Nicholson, Ulrich, 5537.
limitaris n. sp., Ulrich, 5537.
neglecta n. sp., Ulrich, 5537.
Diplocaulus limbatus n. sp., Cope, 1097.
magnicornis Cope, Cope, 1097.
salamandroides Cope, Case, 773.
Diploconcha (Serpula?) cretacea?, Whitfield, 6097.
Diplodocus, Case, 768.
Diplodocus Marsh, 3701, 3702.
longus, Osborn, 4213.
Diplodonta Brown, Dall, 1281.
acclinis Conrad, Dall, 1281.
alta Dall, Dall, 1281.
caloosensis n. sp., Dall, 1281.
hopkinsensis Clark, Clark, 904, 906.
hopkinsensis Clark, Dall, 1281.
inflata Lea, Dall, 1281.
leana Dall, Dall, 1281.
nucleiformis Wagner, Dall, 1281.
punctata Say, Dall, 1281.
radiata n. sp., Dall, 1281.
shilohensis Dall, Dall, 1281.
soror C. B. Adams, Dall, 1281.
turgida Conrad, Dall, 1281.
ungulina Conrad, Dall, 1281.
yorkensis n. sp., Dall, 1281.
(Felaniella) minor n. sp., Dall, 1281.
(Phlytiderma) punctulata H. C. Lea, Dall, 1281.
semiaspera Philippi, Dall, 1281.
(Phlytiderma) puncturella n. sp., Dall, 1281.
(Sphærella) subvexa (Conrad), Dall, 1281.
sp., Harris, 2313.
Diplodus politus Newberry, Eastman, 1604.
priscus n. sp., Eastman, 1604.
striatus n. sp., Eastman, 1604.
Diplograptus, James, 2881.
Diplograptus McCoy, Ruedemann, 4688.
pristiniformis, Ruedemann, 4681.
pristis, Ruedemann, 4681, 4688.
pristis? (Hisinger) Hall, Winchell and Schuchert, 6318.

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Genera and species described—Continued.

- Diplograptus putillus Hall, Winchell and Schuchert, 6318.
 ruedemanni Gurley, Ruedemann, 4688.
 spinulosus, James, 2881.
 typicalis Hall, Winchell and Schuchert, 6318.
 whitfieldi, James, 2881.
 Diplograptus stenosis n. sp., Gurley, 2217.
 Diplopodia hillii Clark, Clark, 892.
 hillii Clark, Cragin, 1115.
 streuerwitzii n. sp., Cragin, 1115.
 taffi n. sp., Cragin, 1115.
 texana Roem., Cragin, 1115.
 texanum (Roemer), Clark, 892.
 Diplopoda, Simpson, 4983.
 Diphoria Milne-Edwards and Haime, Vaughan, 5734.
 conferticostata n. sp., Vaughan, 5734.
 var. columnaria n. var., Vaughan, 5734.
 Diplosaurus nanus, Marsh, 3695.
 Diplospirella Bittner, Hall and Clarke, 2264.
 Diplothea acadica, var. crassa, Matthew, 3761.
 hyattiana, Matthew, 3761.
 Diplothemema geniculatum (Germ. et Kaulf.) Stur., White, 6040.
 Diplotrypa quebecensis n. sp., Ami, 79.
 Diplurus, Case, 766.
 Dipnoi Case, 766.
 Dipterus calvinii n. sp., Eastman, 1608.
 calvini Eastman, Udden, 5519.
 contraversus, Hay, 2381.
 costatus n. sp., Eastman, 1608.
 mordax n. sp., Eastman, 1608.
 uddeni n. sp., Eastman, 1608.
 Diptychoceras, Hyatt, 2819.
 Discina Lamarek, Hall and Clarke, 2260.
 convexa Shumard, Keyes, 3062.
 fletcheri n. sp., Ami, 88.
 humilis, Whitfield, 6099.
 illinoisensis n. sp., Miller and Gurley, 3997a.
 lodensis, Whitfield, 6099.
 lugubris, Whitfield, 6099.
 meekana, Whitfield, 6099.
 minuta, Whitfield, 6099.
 munda n. sp., Miller and Gurley, 3997a.
 nitida (Phillips), Keyes, 3062.
 nova-scotica n. sp., Ami, 88.
 orientalis n. sp., Ami, 88.
 sampsoni n. sp., Miller, 3992.
 Discinisa Dall, Hall and Clarke, 2260.
 Discinolepis Waagen, Hall and Clarke, 2260.
 Discinopsis (Matthew) n. gen., Hall and Clarke, 2260.
 Discitoceras, Hyatt, 2816.
 Discoceras, Hyatt, 2819.
 antiquissimum, Hyatt, 2819.
 canadense n. sp., Whiteaves, 6087.
 grattonense, Hyatt, 2819.
 grattonense M. & W., Whiteaves, 6080.
 Discobolus retifera n. sp., Dall, 1259.
 verrilli n. sp. (by Aldrich), Harris, 2316.
 Discophyllum peltatum Hall, Walcott, 5811.
 Discorbina allomorphinoides (Reuss), Chapman, 870.

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Genera and species described—Continued.

- Discorbina bertheloti (d'Orbigny), Bagg, 148, 150.
 orbicularis, Bagg, 148.
 Discotrochus orbignianus Milne-Edwards and Haime, Vaughan, 5735.
 Disculina (?) Deslongchamps, Hall and Clarke, 2264.
 Dispotea tubifera, Say, 4813.
 Dissacus carnifex Cope, Osborn and Earle, 4191.
 leptognathus n. sp., Osborn and Wortman, 4180.
 navajovius Cope, Matthew, 3801.
 saurognathus Wortman, Matthew, 3801.
 Dissorhophus articulatus Cope, Cope, 1102.
 Distichium capillaceum, Penhallow, 4336.
 Distyonema Hall, Grabau, 2086.
 Distyotites fasciolus n. sp., Penhallow, 4333.
 maximus n. sp., Penhallow, 4333.
 Ditoecholasma n. gen., Simpson, 4984.
 Dittodus latus (Newb.), Hay, 2388.
 lucasi n. sp., Hay, 2388.
 Divaricella prevaricata n. sp., Guppy and Dall, 2214.
 Dizygocrinus W. and Sp. (nov. gen.), Wachsmuth and Springer, 5765a.
 andrewsianus (McChesney), Wachsmuth and Springer, 5765a.
 biturbinatus (Hall), Wachsmuth and Springer, 5765a.
 cantoniensis W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
 crawfordsvillensis S. A. Miller, Wachsmuth and Springer, 5765a.
 decoris (S. A. Miller), Wachsmuth and Springer, 5765a.
 dodecadactylus (Meek and Worthen), Wachsmuth and Springer, 5765a.
 euconus (Meek and Worthen), Wachsmuth and Springer, 5765a.
 euconus, var. abscissus (Rowley and Hare), Wachsmuth and Springer, 5765a.
 facetis (Miller and Gurley), Wachsmuth and Springer, 5765a.
 gorbyi S. A. Miller, Wachsmuth and Springer, 5765a.
 gurleyi (S. A. Miller), Wachsmuth and Springer, 5765a.
 indianensis (Lyon and Cass), Wachsmuth and Springer, 5765a.
 indianensis, var. simplex W. and Sp. (nov. var.), Wachsmuth and Springer, 5765a.
 montgomeryensis, var. unibrachiatus W. and Sp. (nov. var.), Wachsmuth and Springer, 5765a.
 montgomeryensis Worthen, Wachsmuth and Springer, 5765a.
 mutabilis W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
 originarius, var. adultus (W. and Sp.), Wachsmuth and Springer, 5765a.
 originarius W. and Sp., Wachsmuth and Springer, 5765a.
 rotundus (Yand. and Shum.), Wachsmuth and Springer, 5765a.
 unionensis, var. divalis (S. A. Miller), Wachsmuth and Springer, 5765a.

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Genera and species described—Continued.

- Dizygocrinus unionensis* (Worthen), Wachsmuth and Springer, 5765a.
whitei, var. *didactylus* W. and Sp., Wachsmuth and Springer, 5765a.
whitei W. and Sp., Wachsmuth and Springer, 5765a.
Docirhynchus n. gen., Scudder, 4890.
culex, Scudder, 4890.
terebrans, Scudder, 4890.
Dolabella aldrichi n. sp., Dall, 1259.
Dolatoocrinus amplus n. sp., Miller and Gurley, 3997c.
aplatus n. sp., Miller and Gurley, 3999, 4000.
approximatus n. sp., Miller and Gurley, 3997b.
argutus n. sp., Miller and Gurley, 3999.
arrosus n. sp., Miller and Gurley, 4000.
asper n. sp., Miller and Gurley, 4000.
aspratilis n. sp., Miller and Gurley, 4000.
aureatus n. sp., Miller and Gurley, 3997b.
basilius n. sp., Miller and Gurley, 4000.
bellarugosus n. sp., Miller and Gurley, 3999.
bellulus n. sp., Miller and Gurley, 3997d.
bulbaceus n. sp., Miller and Gurley, 3997b.
caelatus n. sp., Miller and Gurley, 3999.
charlestownensis n. sp., Miller and Gurley, 3999.
cistula n. sp., Miller and Gurley, 4000.
corporosus n. sp., Miller and Gurley, 3997d.
dispar n. sp., Miller and Gurley, 4000.
dissimularis n. sp., Miller and Gurley, 4000.
exornatus n. sp., Miller and Gurley, 3997d.
grandis n. sp., Miller and Gurley, 3997b.
greenei n. sp., Miller and Gurley, 3997b.
hammelli n. sp., Miller and Gurley, 3997d.
indianensis n. sp., Miller and Gurley, 3999.
inguncula n. sp., Miller and Gurley, 4000.
lacus Lyon, Miller and Gurley, 3997b.
lincolatus n. sp., Miller and Gurley, 3997b.
lyoni n. sp., Miller and Gurley, 4000.
magnificus n. sp., Miller and Gurley, 3997b.
marshi Lyon, Miller and Gurley, 3997b.
neglectus n. sp., Miller and Gurley, 4003.
nodosus n. sp., Miller and Gurley, 3998.
ornatus Meek, Miller and Gurley, 3997b.
ornatus var. *asperatus* n. var., Miller and Gurley, 3997b.
peculiaris n. sp., Miller and Gurley, 4000.
preciosus n. sp., Miller and Gurley, 4000.
pulchellus n. sp., Miller and Gurley, 3997d.
sacculus n. sp., Miller and Gurley, 3998.
salebrosus n. sp., Miller and Gurley, 3998.
spinatus n. sp., Miller and Gurley, 3997b.
stellifer n. sp., Miller and Gurley, 3997b.
vasculum n. sp., Miller and Gurley, 3997d.
venustus n. sp., Miller and Gurley, 3997b.
Dolichometopus Angelin, Matthew, 3776, 3788.
acadicus n. sp., Matthew, 3776.
Dolichosoma, Case, 767.
Dolium (*Dollopsis*?) *multiliratum* n. sp., Whitfield, 6097.

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- Domatoceras militarium* n. sp., Hyatt, 2816.
simplex n. sp., Hyatt, 2816.
umbilicatum n. sp., Hay, 2389.
Dombeyopsis platanoides Lx., Knowlton, 3255.
Donacia elongatula n. sp., Scudder, 4900.
pompatica, Scudder, 4896.
stiria, Scudder, 4896.
Donax (Linné), Dall, 1281.
æqualis Gabb, Dall, 1281.
æquilibrata Dall, Dall, 1281.
californica Conrad, Dall, 1281.
carinata var. *galvestonensis*, Harris, 2309.
chipolana n. sp., Dall, 1281.
cuneata Stanton, Herrick and Johnson, 2465.
cuneata n. sp., Stanton, 5191.
emmonsii Dall, Dall, 1281.
fossor Say, Dall, 1281.
funerata Conrad, Dall, 1281.
lævigata Deshayes, Dall, 1281.
oblonga Stanton, Herrick and Johnson, 2465.
oblonga n. sp., Stanton, 5181.
striata Linné, Dall, 1281.
variabilis Say, Dall, 1281.
variabilis, Whitfield, 6101.
Dorycrinus Roemer, Grabau, 2086.
Dorycrinus Roemer, Wachsmuth and Springer, 5765a.
Dorycrinus, Whitfield, 6098.
alabamensis n. sp., Miller and Gurley, 4001.
cornigerus Hall, Keyes, 3061.
cornigerus (Hall), Wachsmuth and Springer, 5765a.
elegans n. sp., Miller, 3995.
faberi n. sp., Miller and Gurley, 4001.
gouldi (Hall), Keyes, 3061.
gouldi (Hall), Wachsmuth and Springer, 5765a.
greenei n. sp., Miller and Gurley, 3997c.
intermedius (M. and W.), Wachsmuth and Springer, 5765a.
mississippiensis Roemer, Wachsmuth and Springer, 5765a.
missouriensis (Shumard), Keyes, 3061.
missouriensis (Shumard), Wachsmuth and Springer, 5765a.
pentalobus n. sp., Rowley, 4677.
quinquelobus (Hall), Wachsmuth and Springer, 5765a.
roemeri Meek and Worthen, Wachsmuth and Springer, 5765a.
sampsoni n. sp., Miller and Gurley, 4001.
suboviformis n. sp., Miller and Gurley, 4003.
subturbatus (M. & W.), Wachsmuth and Springer, 5765a.
tricornis, Whitfield, 6098.
unicornis (Owen and Shumard), Keyes, 3061.
unicornis (O. and Shum.), Wachsmuth and Springer, 5765a.
unispinus (Hall), Wachsmuth and Springer, 5765a.

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- Dorypyge Dames, Matthew, 3776, 3788.
 dawsoni Walcott sp., Matthew, 3788.
 horrida n. sp., Matthew, 3776.
 parvula Billings sp., Matthew, 3776.
 quadriceps valida n. var., Matthew, 3776.
 wasatchensis var. acadica n. var., Mat-
 thew, 3776.
 Dorytomus coereitus, Scudder, 4890.
 williamsi, Scudder, 4890.
 Doscinia acetabulum, Whitfield, 6101.
 Dosinia mercenariorum, Aldrich, 74.
 Dosiniopsis lenticularis, Harris, 2313.
 lenticularis (Rogers), Clark, 906.
 Drepanella Ulrich, Ulrich, 5540.
 bigeneris n. sp., Ulrich, 5540.
 bilateralis n. sp., Ulrich, 5540.
 Drillia abundans Conrad, Dall, 1259.
 abundans var. perrugata, Dall, 1259.
 acucineta n. sp., Dall, 1259.
 acurugata n. sp., Dall, 1259.
 æpynota Dall var. acila, Dall, 1259.
 alesidota var. perspirata Dall, Dall, 1259.
 aphanitoma n. sp., Dall, 1259.
 bigemma n. sp., Dall, 1259.
 ebenina Dall, Dall, 1259.
 eburnea Conrad, Dall, 1259.
 edilia n. sp., Dall, 1259.
 elegans, Whitfield, 6101.
 hoplophorus n. sp., Dall, 1259.
 (lissotropis var.?) perpolita Dall, Dall, 1259.
 scissurata Dall, Dall, 1259.
 myrmecoon n. sp., Dall, 1259.
 newmani n. sp., Dall, 1259.
 ostrearum Stearns, Dall, 1259.
 piscator n. sp., Dall, 1259.
 podagrina n. sp., Dall, 1259.
 schismatica n. sp., Dall, 1259.
 sedilia n. sp., Dall, 1259.
 sigela n. sp., Dall, 1259.
 subflexuosa n. sp., Whitfield, 6101.
 tuberculata Emmons, Dall, 1259.
 ullreyana n. sp., Cooper, 1071.
 Dromopus agilis n. gen. et sp., Marsh, 3686.
 Dryophyllum crenatum Lx., Knowlton, 3264.
 elongatum n. sp., Dawson, 1436.
 falcatum? Ward, Knowlton, 3264.
 longipetillatum n. sp., Knowlton, 3255.
 neillianum n. sp., Dawson, 1436.
 occidentale n. sp., Dawson, 1436.
 stanleyanum n. sp., Dawson, 1448.
 subfalcatum Lx., Knowlton, 3264.
 Dryopteris? gleichenoides n. sp., Knowlton,
 3263.
 idahensis n. sp., Knowlton, 3246.
 weedii n. sp., Knowlton, 3255.
 xantholithense n. sp., Knowlton, 3255.
 Dryosaurus n. gen., Marsh, 3687, 3701.
 Dryptosaurus kenabekides, Hay, 2384.
 Dumblea, n. gen., Cragin, 1115.
 symmetrica n. sp., Cragin, 1115.
 Duncanella fanningana (Safford) Girty, 2037.
 rudis n. sp., Girty, 2034, 2037.
 Dyscolia Fischer and Oehlert, Hall and Clarke,
 2264.
 Dystactophycus mamillanum Miller and
 Dyer, James, 2896.

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- Dystactospongia, James, 2881.
 insolens, James, 2881.
 minima, James, 2881.
 Dytiscidae sp., Scudder, 4900.
 Eatonia Hall, Hall and Clarke, 2264, 4261a.
 couleri, n. sp., Miller and Gurley, 3997a.
 medialis Vanuxem, Clarke, 971.
 peculiaris Conrad, Clarke, 971.
 peculiaris? (Conrad), Keyes, 3062.
 Eccliomphalus Portloch, Grabau, 2086.
 Eccliomphalus Portlock, Ulrich and Scofield,
 5541.
 compressus n. sp., Whitfield, 6106.
 contiguus n. sp., Ulrich and Scofield,
 5541.
 laxus (Hall), Grabau, 2086.
 multisetarius n. sp., Cleland, 1012.
 subrotundus n. sp., Ulrich and Scofield,
 5541.
 undulatus Hall, Ulrich and Scofield, 5541.
 undulatus, Whitfield, 6102.
 Ecyliopteris Remele, Ulrich and Scofield,
 5541.
 beliotensis n. sp., Ulrich and Scofield,
 5541.
 owenanus Meek and Worthen, Ulrich and
 Scofield, 5541.
 Echinarachinus gibbsi Remond, Merriam,
 3922.
 (?) ectenodictya Hall, Hall and Clarke,
 2269, 2271.
 excentricus Eschscholtz, Merriam, 3923.
 implexa Hall, Hall and Clarke, 2269, 2271.
 Echinobrissus expansus Clark, Clark, 892.
 texanus Clark, Clark, 892.
 texanus Clark, Cragin, 1115.
 Echinocaris Whitfield, Whitfield, 6099.
 multinodosa, Whitfield, 6099.
 pustulosa, Whitfield, 6099.
 sublevis, Whitfield, 6099.
 Echinoderms, Agassiz, 54.
 Echinodiscus kaskaskiensis (Hall), Keyes,
 3061.
 samsoni n. sp., Miller, 3992.
 Ecphora Conrad, Dall, 1259.
 Ectacodon cinetus Cope, Earle, 1589.
 Ectoconodon n. gen., Osborn, 4205.
 petersoni, n. sp., Osborn, 4205.
 Ectoconus ditrigonus Cope, Osborn and Earle,
 4191.
 Edaphocerat, Hyatt, 2819.
 Edaphophyllum, n. gen., Simpson, 4984.
 Edestus lecontei n. sp., Dean, 1474.
 Edmondia equimarginalis Win., Weller, 6006.
 albersi n. sp., Miller and Gurley, 4002.
 aspinwallensis Meek, Keyes, 3062.
 cf. binumbonata A. Winchell, Lane, 3400.
 burlingtonensis White and Whitfield,
 Keyes, 3062.
 burlingtonensis M. and W., Weller, 5994,
 6006.
 jejunos (Win.), Weller, 6006.
 missouriensis n. sp., Weller, 5994.
 nitida Win., Weller, 6006.
 nuptialis Winchell, Keyes, 3362.
 quadrata (W. & W.), Weller, 6006.

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Genera and species described—Continued.

- Edmondia* ? *reflexa* Meek, Girty, 2037.
 subtruncata Meek?, Girty, 2037.
 sylvana, Hartt and Rathbun, Clarke, 976.
 (?) *vetusta* n. sp., Whiteaves, 6087.
- Edriocrinus* *becraftensis*, n. sp., Clarke, 971.
 poecilliformis Hall, Keyes, 3061.
- Egerella* *Stoliczka*, Dall, 1281.
 subtrigonia, (Lea), Dall, 1281.
 triangulata (Lea), Dall, 1281.
- Eichwaldia* Billings, Hall and Clarke, 2261a, 2264.
- Eileticus* ? *antiquus* n. sp., Matthew, G. F., 3759.
- Elaeodendron* *polymorpha* Ward, Knowlton, 3255.
 speciosum n. sp., Lesquereux, 3470.
- Elaphrus* *irregularis*, Scudder, 4896.
- Elasmosaurus* *intermedius* n. sp., Cope, 1089.
- Elaterites* sp., Scudder, 4896.
- Elephas* *americanus*, Blake, 483.
 primigenius Blum, Cope, 1087.
- Elkania* Ford, Hall and Clarke, 2260.
- Ellipsocephalus* *articephalus* Matt., Matthew, 3748, 3751.
 guleatus n. sp., Matthew, 3748, 3751, 3761.
 grandis n. sp., Matthew, 3751, 3761.
- Elomeryx* *armatus* n. gen., Marsh, 3689.
- Elonichthys*, Case, 766.
 peltigerus? Newberry, Hay, 2000, 2388.
- Elotherium* *clavum* n. sp., Marsh, 3681.
 crassum, Marsh, 3681, 3684.
 mortoni Leidy, Ami, 84.
 uintense n. sp., Osborn, 4190.
- Elpe* *ulrichi* n. sp., Foerste, 1835.
- Elymella* Hall, Grabau, 2086.
 missouriensis n. sp., Miller and Gurley, 4002.
 missouriensis Miller and Gurley, Weller, 5994.
 nuculoides Hall, Grabau, 2086.
- Emarginula* *pilsbryi* n. sp., Dall, 1259.
 (*Rimula*) *caroliniana* n. sp., Dall, 1259.
- Embaphias* *circulosus* n. gen. et sp., Cope, 1089.
- Empedias*, Case, 768.
- Emperoceras* *beecheri* n. gen., Hyatt, 2819.
- Emperocrinus* n. gen., Miller and Gurley, 3997d.
 indianensis n. sp., Miller and Gurley, 3997d.
- Empo* *lisbonensis* n. sp., Stewart, 5243.
- Enallaster* *inflatus* n. sp., Cragin, 1115.
 obliquatus Clark, Clark, 892.
 texanus (Roemer), Clark, 892.
 texanus Roem., Cragin, 1115.
- Enantiosphen* Whidborne, Hall and Clarke, 2264.
- Encephalartos* *cretaceous* n. sp., Lesquereux, 3470.
- Enchophora* sp., Scudder, 4895.
- Enechostoma*, n. gen., Miller and Gurley, 4002.
- Enclimatoceras* *ulrichi*, Harris, 2310.
 (*Nautilus*) *ulrichi* White, Harris, 2305.
- Encrinurus* *cristatus* n. sp., Clarke, 952.
 deltoideus Shumard, Keyes, 3061.
 punctatus, Foerste, 1835.

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Genera and species described—Continued.

- Encrinurus* *punctatus*, Norton, 4121.
 (?) *rariocostatus* Walcott 1877, Clarke, 952.
 vannulus n. sp. Clarke, 952.
- Endoceras* *simpsoni* Billings, Whiteaves, 6087.
 subannulatum Whitfield, Whiteaves, 6087.
 (*Narthecoceras*) *crassiphonatum* Whiteaves, Whiteaves, 6087.
- Endodesma* n. gen., Ulrich, 5539.
 compressum n. sp., Ulrich, 5539.
 cuneatum n. sp., Ulrich, 5539.
 orthonotum Meek and Worthen, Ulrich, 5539.
 postlatum n. sp., Ulrich, 5539.
 undosum n. sp., Ulrich, 5539.
- Endolobus* *avonensis*, Hyatt, 2819.
 missouriensis Swallow, Smith, 5046.
- Endopachys* *lonsdalei*, n. sp., Vaughan, 5735.
 maclurii (Lea), Vaughan, 5735.
 var. *tenuis*, n. var., Vaughan, 5735.
 var. *triangulare* Conrad, Vaughan, 5735.
 minutum, n. sp., Vaughan, 5735.
 shaleri, n. sp., Vaughan, 5735.
- Endoptygma* *umbilicata*, Whitfield, 6097.
- Endothyra* *baileyi* var. *parva* n. var. Girty, 2038.
- Engina* *turbinella* Kiener, Dall, 1259.
- Enoplocyrtia* *minor* n. sp., Woodward, 6442.
- Ensis* *Schumacher*, Dall, 1281.
 directus Conrad, Dall, 1281.
 ensiformis Conrad, Dall, 1281.
 minor Dall, Dall, 1281.
- Enteleutes* Fisher de Waldheim, Hall and Clarke, 2260.
- Enterolasma*, n. gen., Simpson, 4984.
- Entolium* *aviculatum* (Swallow), Keyes, 3062.
- Entomis* Jones, Grabau, 2086.
 rhomboidea Jones, Grabau, 2086.
- Entomocaris* n. gen., Whitfield, 6104.
 monroei n. sp., Whitfield, 6104.
 telleri n. sp., Whitfield, 6104.
- Eocidaritis* *blairi* n. sp., Miller, 3992.
- Eocleonius* n. gen., Scudder, 4890.
 subjectus, Scudder, 4890.
- Eocoryne* *geminum* Matthew, Rauff, 4548.
- Eohyus* *distans* n. sp., Marsh, 3690.
 robustus n. sp., Marsh, 3690.
- Eomeryx* *pumilus*, Marsh, 3690.
- Eophyton* *Torell*, Walcott, 5811.
 linnaeanum Torell, Walcott, 5811.
 torelli Linnarsson, Walcott, 5811.
- Eotomaria* n. gen., Ulrich and Scofield, 5541.
 canalifera n. sp., Ulrich and Scofield, 5541.
 dryope Billings, Ulrich and Scofield, 5541.
 elevata n. sp. Ulrich and Scofield, 5541.
 labiosa n. sp., Ulrich and Scofield, 5541.
 supracingulata Billings, Ulrich and Scofield, 5541.
 vicina n. sp., Ulrich and Scofield, 5541.
- Eozoon* *canadense*, Bonney, 505.
 canadense, Dawson, J. W., 1447, 1450.
- Ephippiocera* *ferratum* Hyatt, Hyatt, 2819.
- Epiaster* *electus* n. sp., Cragin, 1115.
 elegans Shum., Cragin, 1115.
 var. *nov. praenuntius*, Cragin, 1115.

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- Epiaster elegans* (Shumard), Clark, 892.
hemiasterinus n. sp., Cragin, 1115.
whitei Clark, Clark, 892.
whitei Clark, Cragin, 1115.
Epicaerus effossus, Scudder, 4890.
exanimis, Scudder, 4890.
saxatilis, Scudder, 4890.
Episcoposaurus haplocerus n. sp., Cope, 1084.
Epoecodon major, Osborn and Wortman, 4189.
Equisetum canaliculatum n. sp., Knowlton, 3255.
deciduum n. sp., Knowlton, 3255.
haguei n. sp., Knowlton, 3255.
lesquereuxii Kn. Knowlton, 3255.
lyelli Mantel, Dawson, 1434.
oregonense Newb., Newberry, 4083.
robustum Newb., Newberry, 4083.
rogersii (Bunbury) Schimper, Ward, 5857.
texense n. sp., Fontaine, 1846, 1847.
virginicum Fontaine, Fontaine, 1850.
wyomingense Lesq., Newberry, 4083.
 sp., Knowlton, 3246.
 sp.?, Newberry, 4083.
Equus Linn., Cope, 1104.
complicatus Leidy, Woolman, 6474.
cummisii Cope, Cope, 1087.
eurystylus Cope, Cope, 1087.
excelsus, Cope, 1074, 1097.
fraternus Leidy, Cope, 1098, 1104.
intermedius n. sp., Cope, 1098.
major Dekay, Cope, 1087.
minutus Cope, Cope, 1087.
phlegon, Hay, 2384.
scotti n. sp., Gidley, 1981.
semiplicatus Cope, Cope, 1087.
simplicidens n. sp., Cope, 1084, 1087.
tau Owen, Cope, 1087.
Erato emmonsii n. sp., Whitfield, 6101.
maueriae Gray, Dall, 1259.
Eremopteris bolibata n. sp., White, 6050.
cheathamii Lx., White, 6052.
deciptens (Lx.), White, 6052.
dissecta Lx., White, 6052.
lincolniana n. sp., White, 6052.
missouriensis Lx., White, 6050.
Eretmocrinus Lyon and Cass, Wachsmuth and Springer, 5765a.
attenuatus, Whitfield, 6098.
calyculoides (Hall), Keyes, 3061.
calyculoides (Hall), Wachsmuth and Springer, 5765a.
calyculoides, var. *nodosus* W. and Sp. (nov. var.), Wachsmuth and Springer, 5765a.
clio (Hall), Wachsmuth and Springer, 5765a.
clelia Hall, Wachsmuth and Springer, 5765a.
commendabilis n. sp., Miller and Gurley, 3997d.
corbulis Hall, Keyes, 3061.
corbulis (Hall), Wachsmuth and Springer, 5765a.
coronatus (Hall), Wachsmuth and Springer, 5765a.

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- Eretmocrinus depressus* Keyes, Keyes, 3061.
depressus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
expansus Keyes, Keyes, 3061.
granuliferus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
intermedius W. and Sp., Wachsmuth and Springer, 5765a.
leucosia (Hall), Wachsmuth and Springer, 5765a.
lyonanus n. sp., Miller, 3992.
lyonanus n. sp., Miller and Gurley, 3997a.
magnificus Lyon and Cass, Wachsmuth and Springer, 5765a.
matuta (Hall), Wachsmuth and Springer, 5765a.
minor W. and Sp., (nov. spec.) Wachsmuth and Springer, 5765a.
neglectus Meek and Worthen, Wachsmuth and Springer, 5765a.
nodosus n. sp., Rowley, 4677.
prægravis n. sp., Miller, 3995.
prægravis S. A. Miller, Wachsmuth and Springer, 5765a.
ramulosus (Hall), Wachsmuth and Springer, 5765a.
remibrachiatus (Hall), Wachsmuth and Springer, 5765a.
remibrachiatus, var. *expansus* W. and Sp. (nov. var.) Wachsmuth and Springer, 5765a.
rugosus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
verneuillianus (Shumard), Keyes, 3061.
Eridonychia apicalis n. gen. et sp., Ulrich, 5535.
crenata n. sp., Ulrich, 5535.
paucicostata n. sp., Ulrich, 5535.
Eridopora, Simpson, 4983.
 (?) sp., Girty, 2038.
Eridotrypa n. gen., Ulrich, 5537.
exigua n. sp., Ulrich, 5537.
mutabilis n. sp., Ulrich, 5537.
minor n. var., Ulrich, 5537.
Erinnys Salter, Matthew, 3789.
breviceps, Ang., Matthew, 3789.
Eripachya? paludinaformis n. sp., Whitfield, 6097.
Eriphyla galvestonensis n. sp., Harris, 2309.
Eriptychius americanus n. sp., Walcott, 5780.
Eriptychius dormitus, Scudder, 4890.
Erisocrinus megalobrachus n. sp., Beede, 394.
toddanus n. sp., Butts, 672.
Erithizon? dorsatum Linn., Cope, 1104.
Erpetocypris lata n. sp., Chapman, 869.
merriamiana, n. sp., Chapman, 869.
Ervilia Turton, Dall, 1272.
chipolana n. sp., Dall, 1272.
lata n. sp., Dall, 1272.
oregonensis n. sp., Dall, 1272.
planata n. sp., Dall, 1272.
polita n. sp., Dall, 1272.
triangularis n. sp., Dall, 1272.
Erycina Lamarck, Dall, 1281.
carolinensis n. sp., Dall, 1281.

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- Erycina chipolana* n. sp., Dall, 1281.
curtidens n. sp., Dall, 1281.
fabulina n. sp., Dall, 1281.
kurtzii Dall, Dall, 1281.
marylandica Glenn, Dall, 1281.
plicatula n. sp., Dall, 1281.
undosa n. sp., Dall, 1281.
 (Pseudopythina?) *americana* n. sp., Dall, 1281.
 (Pseudopythina) *protracta* n. sp., Dall, 1281.
Erycus brevicollis, Scudder, 4890.
Eryma dawsoni, H. Woodw. n. sp., Woodward, 6442.
Eryops Cope, Williston, 6255.
Escharopora Hall, Ulrich, 5537.
angularis n. sp., Ulrich, 5537.
confluens n. sp., Ulrich, 5537.
 ? *limitaris* n. sp. or var., Ulrich, 5537.
ramosa? Ulrich, var. or n. sp., Whiteaves, 6087.
subrecta Ulrich, Ulrich, 5557.
Eschatius condens Cope, Wortman, 6493.
Esperites? sp., Merrill, 3969.
Estheria, Jones, 2936.
dawsoni, Dawson, 1454.
Estonioceras, Hyatt, 2819.
biangulatum n. sp., Hyatt, 2819.
perforatum, Hyatt, 2819.
Etheridgina Ehlert, Hull and Clarke, 2260.
Etoblattina Scudder, 4898.
accubita n. sp., Scudder, 4898.
angusta n. sp., Scudder, 4898.
aperta n. sp., Scudder, 4898.
arcta n. sp., Scudder, 4898.
benedicta n. sp., Scudder, 4898.
clarkii, Scudder, 4892, 4898.
clintoniana n. sp., Scudder, 4898.
communis n. sp., Scudder, 4898.
deanensis n. sp., Scudder, 4898.
debilis n. sp., Scudder, 4898.
defossa n. sp., Scudder, 4898.
detecta n. sp., Scudder, 4898.
eakiniana n. sp., Scudder, 4898.
exigua n. sp., Scudder, 4898.
exilis, Scudder, 4892, 4898.
expugnata n. sp., Scudder, 4898.
expulsata n. sp., Scudder, 4898.
expuncta n. sp., Scudder, 4898.
exsecenta n. sp., Scudder, 4898.
exsensa n. sp., Scudder, 4898.
fascinata, Scudder, 4898.
fossa n. sp., Scudder, 4898.
funeraria n. sp., Scudder, 4898.
funesta n. sp., Scudder, 4898.
gorhami, Scudder, 4892, 4898.
gracilentia n. sp., Scudder, 4898.
gratiosa n. sp., Scudder, 4898.
hastata n. sp., Scudder, 4898.
hilliana n. sp., Scudder, 4898.
hustoni, Scudder, 4898.
illustris, Scudder, 4892, 4898.
immolata n. sp., Scudder, 4898.
imperfecta n. sp., Scudder, 4898.
invisa n. sp., Scudder, 4898.

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- Etoblattina jeffersoniana* n. sp., Scudder, 4898.
lata n. sp., Scudder, 4898.
latebricola n. sp., Scudder, 4898.
macerata n. sp., Scudder, 4898.
macilenta n. sp., Scudder, 4898.
mactata n. sp., Scudder, 4898.
maledicta n. sp., Scudder, 4898.
marginata, Scudder, 4898.
mazona, Scudder, 4898.
mediana, Scudder, 4898.
mucronata n. sp., Scudder, 4898.
obatra n. sp., Scudder, 4898.
occulta n. sp., Scudder, 4898.
ovata n. sp., Scudder, 4898.
patiens n. sp., Scudder, 4898.
præduleis n. sp., Scudder, 4898.
ramosa n. sp., Scudder, 4898.
recidiva n. sp., Scudder, 4898.
reliqua, Scudder, 4892, 4898.
sagittaria n. sp., Scudder, 4898.
scholfieldi, Scudder, 4892, 4898.
secretata n. sp., Scudder, 4898.
stipata, Scudder, 4898.
strigosa, Scudder, 4898.
tenuis, Scudder, 4898.
variegata, Scudder, 4898.
willsiana n. sp., Scudder, 4898.
 sp. undet., Scudder, 4898.
Eucalathis Fischer and Ehlert, Hall and Clarke, 2264.
Eucalyptocrinus Goldfuss, Weller, 6002.
asper n. sp., Weller, 6002.
crassus Hall, Weller, 6002.
depressus S. A. Miller, Weller, 6002.
egani S. A. Miller, Weller, 6002.
elipticus n. sp., Miller, 3992.
elrodi n. sp., Miller, 3992.
gorbyi n. sp., Miller, 3992.
inornatus n. sp., Weller, 6002.
lindahli n. sp., Wachsmuth and Springer, 5765.
milliganæ n. sp., Miller and Gurley, 4001.
magnus Worthen, Weller, 6002.
nodulosus n. sp., Weller, 6002.
obconicus Hall, Weller, 6002.
ornatus Hall, Weller, 6002.
rotundus S. A. Miller, Weller, 6002.
subglobosus n. sp., Miller, 3992.
turbinatus S. A. Miller, Weller, 6002.
wortheni n. sp., Miller and Gurley, 3997a.
Eucalyptus, Ward, 5854.
 (?) *angustifolia* n. sp., Newberry, 4080.
 (?) *attenuata* n. sp., Newberry, 4080.
dakotensis n. sp., Lesquereux, 3470.
geinitzi Heer, Lesquereux, 3470.
geinitzi Heer, Newberry, 4080.
gouldii n. sp., Ward, 5852.
 (?) *nervosa* n. sp., Newberry, 4080.
nervosa Newb., Hollick, 2696.
 (?) *parvifolia* n. sp., Newberry, 4080.
Eucheilodon creno-carinatus, Aldrich, 74.
creno-carinata Heilp., Harris, 2311.
Euchirosaurus, Casé, 767.
Euchodus amicrodus n. sp., Stewart, 5240.
parvus n. sp., Stewart, 5240.

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Genera and species described—Continued.

- Eucladocrinus* Meek (emended W. and Sp.), Wachsmuth and Springer, 5765a.
millebrachiatus W. and Sp., Wachsmuth and Springer, 5765a.
millebrachiatus var. *immaturus* W. and Sp., Wachsmuth and Springer, 5765a.
montanensis Meek, Wachsmuth and Springer, 5765a.
pleuroviminus (White), Keyes, 3061.
pleuroviminus White, Wachsmuth and Springer, 5765a.
praenuntius W. and Sp., Wachsmuth and Springer, 5765a.
tuberosus (Hall), Wachsmuth and Springer, 5765a.
- Euclastes* (?) sp., Clark, 906.
- Euconospira planibasalis* n. sp., Ulrich and Scofield, 5541.
- Eucryptus* n. gen., Scudder, 4890.
sectus, Scudder, 4890.
- Eucymba ocalana* Dall, Dall, 1259.
 see *Cymba* (*Eucymba*) Dall, Dall, 1259.
- Eudesella Munier-Chalmas*, Hall and Clarke, 2264.
- Eudomus* n. gen., Scudder, 4890.
pinguis, Scudder, 4890.
robustus, Scudder, 4890.
- Eugenia primæva* n. sp., Lesquereux, 3470.
- Eugnampthus grandævus*, Scudder, 4890.
- Eulima conoidea* Kurtz & Stimpson, Dall, 1259.
egregia n. sp., Guppy and Dall, 2214.
exilis Gabb, Harris, 2316.
 ? *peracuta* Meek and Worthen, Keyes, 3062. (*Leiostraca*)
rectiuscula Dall, Dall, 1259. (*Liostraca*)
nobilis n. sp., Guppy and Dall, 2214.
 (*Subularia*) *cainei* n. sp., Harris, 2316.
- Eulimella*? *funicula* Meek, Herrick and Johnson, 2465.
 ? *funicula* Meek, Stanton, 5191.
tenua Gabb, Harris, 2316.
- Eulithota fasciculata* Haeckel, Walcott, 5811.
- Eumetria* Hall, Hall and Clarke, 2261, 2264.
altirostris (White), Weller, 6006.
perstrialis n. sp., Rowley, 4677a.
 (?) *polypleura*, Lane, 3400.
verneuilliana Hall, Girty, 2038.
verneuilliana Hall, Weller, 5986.
- Eunema brevispera* n. sp., Whiteaves, 6074.
clathratulum n. sp., Whiteaves, 6074.
cretaceum n. sp., Whiteaves, 6085.
speciosum n. sp., Whiteaves, 6074.
subspinosum n. sp., Whiteaves, 6074.
- Euomphalus* Sowerby 1812, Berkeley, 429.
circinatus Whiteaves, Whiteaves, 6080.
inornatus Whiteaves, Whiteaves, 6080.
 (*circularis*? Phillips, var.) *subtrigonalis*, Whiteaves, 6074.
 n. sp., Girty, 2037.
- Eupachyrcinus harrii* n. sp., Miller, 3992.
 ? *harrii* Miller, Keyes, 3061.
magister Miller and Gurley, Keyes, 3061.
magister, Miller and Gurley, 3991.
orbicularis, Whitfield, 6098.
parvus n. sp., Miller and Gurley, 3997a.

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- Eupachyrcinus spherialis* n. sp., Miller and Gurley, 3991.
tuberculatus Meek and Worthen, Girty, 2037.
tumulosus n. sp., Miller, 3992.
verrucosus (White and St. John), Keyes, 3061.
 sp., Girty, 2037.
- Euphanerops longævus*, Woodward, 6437.
- Euphansia*, Beecher, 366.
- Euphemus*, Girty, 2037.
- Euphemus McCoy*, Ulrich and Scofield, 5541.
 (?) sp., Weller, 5994.
- Euphoberia atava* n. sp., Matthew, G. F., 3759.
- Eupleura caudata* Say, Dall, 1259.
 var. *sulcidentata* Dall, Dall, 1259.
miocenica n. sp., Dall, 1259.
muriciniformis Broderip, Dall, 1259.
- Euprotogonia* Cope, Osborn and Earle, 4191.
puercensis Cope, Matthew, 3801.
minor n. sp. Matthew, 3801.
puercensis Cope, Osborn and Earle, 4191.
- Eupsammia conradi*, nom. nov., Vaughan, 5735.
elaborata (Conrad), Vaughan, 5722, 5735.
 (?) *pileolus* (Conrad), Vaughan, 5722.
- Euractinella Bittner*, Hall and Clarke, 2264.
- Eurotgonia* Cope, Matthew, 3800.
minor n. sp., Matthew, 3800.
puercensis (Cope), Matthew, 3800.
- Eurychilina* Ulrich, Ulrich, 5540.
reticulata Ulrich, Ulrich, 5540.
 var. *incurva* n. var., Ulrich, 5540.
 (?) *subæquata* n. sp., Ulrich, 5540.
subradiata Ulrich, Ulrich, 5540.
 (?) *symmetrica* n. sp., Ulrich, 5540.
ventrosa n. sp., Ulrich, 5540.
- Eurydictya*, Simpson, 4983.
- Eurydictya* Ulrich, Ulrich, 5537.
multiporta? Hall sp., Ulrich, 5537.
- Eurymartus latus* n. sp., Matthew, 3768.
 (?) *spinulosus* n. sp., Matthew, 3768.
 sp.?, Matthew, 3768.
- Eurymya* n. gen., Ulrich, 5539.
plana Hall, Ulrich, 5539.
- Euryptrella ornata* Matt., Matthew, G. F., 3758.
- Eurypterus erienisis*, Whitfield, 6099.
kokomoensis n. sp., Miller and Gurley, 4001.
- Eurystomites gibbosum* n. sp., Hyatt, 2819.
plicatus n. sp., Whiteaves, 6083, 6087.
rotundus, Hyatt, 2819.
undatum, Hyatt, 2819.
undatus Emmons var. *occidentalis* Hall 1861, Clarke, 953.
virginiana, Hyatt, 2819.
- Euspilopora*, Simpson, 4983.
- Euthria dubia* Ald., Harris, 2316.
 ? *fragilis* n. sp., Whitfield, 6097.
- Eutropheoceras* n. gen., Hyatt, 2819.
dekayi, Hyatt, 2819.
faxeense n. sp., Hyatt, 2819.
imperialis, Hyatt, 2810.
christyi (Shumard), Wachsmuth and Springer, 5765a.

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Genera and species described—Continued.

- Eutrophoceras* W. and Sp. (nov. gen.), Wachsmuth and Springer, 5765a.
christyi, var. *trochiscus* (Meek and Worthen), Wachsmuth and Springer, 5765a.
lovei W. and Sp., Wachsmuth and Springer 5765a.
planodiscus (Hall), Wachsmuth and Springer, 5765a.
Evactinopora, Simpson, 4983.
radiata Meek and Worthen, Keyes, 3062.
Evarthrus tenebricus n. sp., Scudder, 4900.
Evopes n. gen., Scudder, 4890.
occubatus, Scudder, 4890.
veneratus, Scudder, 4890.
Excipulites callipterides (Schimp.) Kidst., White, 6050.
Exilia pergracilis, Harris, 2310, 2316.
Exitloceras n. gen., Hyatt, 2819.
Exogyra, Say, 4813.
americana Marcon, Cragin, 1115.
columbella Meek, Cragin, 1115.
columbella Meek, Stanton, 5191.
costata, Say, 4813.
costata Say, Harris, 2315.
drakei n. sp., Cragin, 1115.
ferox n. sp., Cragin, 1115.
hilli n. sp., Cragin, 1115.
laeviuscula Roemer, Cragin, 1115.
laeviuscula Roemer, Logan, 3554.
laeviuscula Roemer, Stanton, 5191.
paupercula n. sp., Cragin, 1115.
plexa n. sp., Cragin, 1115.
ponderosa Roemer, Logan, 3554.
ponderosa Roemer, Stanton, 5191.
potosina n. sp., Aguilera, 57.
suborbiculata Lamarck (sp.), Stanton, 5191.
texana, Stanton, 5197.
weatherfordensis n. sp., Cragin, 1115.
Exomias obdurefactus, Scudder, 4890.
Fabella oblonga n. sp., Aldrich, 74.
oblonga, Harris, 2313.
Fagophyllum nervosum n. sp., Dawson, 1436.
retosum n. sp., Dawson, 1436.
Fagus cretacea Newb., Newberry, 4083.
orbiculatum n. sp., Lesquereux, 3470.
undulata n. sp., Knowlton, 3255.
Fasciolaria distans Lamarck, Dall, 1259.
(distans subsp?)
apicina Dall, Dall, 1259.
monocingulata Dall, Dall, 1259.
rhomboidea Rogers, Dall, 1259.
elegans Emmons, Dall, 1259.
hercules Whitfield, 6097.
propinqua n. sp., Whitfield, 6097.
sampsoni n. sp., Whitfield, 6097.
(sparrowi var.?) acuta Emmons, Dall, 1259.
tulipa Linné, Dall, 1259.
walcotti n. sp., Stanton, 5191.
woodi, Whitfield, 6101.
(Cryptorhytis) utahensis Meek (sp.), Stanton, 5191.
Fasciolaris sp., Logan, 3555.
Favia merriami n. sp., Vaughan, 5735.
taxana n. sp., Cragin, 1115.

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Genera and species described—Continued.

- Favicella*, Simpson, 4983.
Favosites Lamarck, Grabau, 2086.
Favosites Lamarck, Lambe, 3374.
Favosites Lam., Say, 4813.
alpenensis, Lambe, 3374.
argus Hall, Grabau, 2086.
aspera d'Orbigny, Lambe, 3374.
basaltica Goldfuss (sp.), Lambe, 3374.
billingsii Rominger, Lambe, 3374.
canadensis Billings (sp.), Lambe, 3374.
cervicornis Milne-Edwards and Haime, Lambe, 3374.
clausa Rominger, Lambe, 3374.
clavatus, n. sp., Greene, 2162d.
conicus Hall, Girty, 2032, 2034, 2037.
conradi n. sp., Girty, 2034.
digitata Rominger, Lambe, 3374.
favosa ? (Goldfuss), Keyes, 3061.
forbesi var. *occidentalis*, Girty, 2032.
gaspensis n. sp., Lambe, 3374.
globulus n. sp., Greene, 2162.
gothlandica Lamarck, Lambe, 3374.
hamiltonic Hall, Grabau, 2086.
helderbergiae Hall, Girty, 2034.
hemispherica (Troost), Keyes, 3061.
hemispherica Milne-Edwards and Haime, Lambe, 3374.
hemispherica, Girty, 2032.
hisingeri Milne-Edwards and Haime, Lambe, 3374.
niagarensis Hall, Lambe, 3374.
nitella Winchell, Lambe, 3374.
polymorpha (Goldfuss) Billings, Whiteaves, 6080.
prolificus Billings, Whiteaves, 6087.
radiciformis Rominger, Lambe, 3374.
rotundituba n. sp., Greene, 2162.
rotundus n. sp., Greene, 2162d.
spinigerus, Girty, 2032.
striata, Say, 4813.
turbinata Billings, Lambe, 3374.
sp., Girty, 2038.
Favositidae, Beecher, 353.
Fayolia sp., White, 6052.
Feistmantelia oblonga Ward, n. sp., Fontaine, 1850.
Felis cyra Desm., Cope, 1104.
hillanus Cope, Cope, 1087.
probiscidia, Cope, 1087.
Fenestella Lonsdale, Girty, 2038.
Fenestella Miller, Grabau, 2086.
Fenestella, Simpson, 4983.
albuquerqueana n. sp., Herrick and Bendrat, 2464.
biseriata Hall (?), Clarke, 971.
dentata n. sp., Rogers, 4656.
emaciata Hall, Grabau, 2086.
hexagonalis n. sp., Rogers, 4656.
kansasensis n. sp., Rogers, 4656.
missouriensis n. sp., Rogers, 4656.
ovatifora n. sp., Rogers, 4656.
planiramosa Hall, Grabau, 2086.
rudis Ulrich, Keyes, 3062.
shumardi Prout, Keyes, 3062.
Fenestralia, Simpson, 4983.

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Genera and species described—Continued.

- Fenestrapora*, Simpson, 4983.
Ficophyllum serratum Fontaine, Fontaine, 1850.
Ficus alaskana Newberry, Knowlton, 3232.
 (?) *alaskana* Newb., Newberry, 4083.
aligera n. sp., Lesquereux, 3470.
artocarpoides (?) Lx., Hollick, 2708.
asarifolia Ett., Knowlton, 3264.
asarifolia minor Lesq., Newberry, 4083.
austiniana n. sp., Lesquereux, 3472.
berthoudi n. sp., Lesquereux, 3470.
 (?) *condoni* Newb., Newberry, 4083.
contorta n. sp., Dawson, 1436.
crassipes Heer, Lesquereux, 3470.
dalmatica Ett., Knowlton, 3264.
deflexa n. sp., Lesquereux, 3470.
deformata n. sp., Knowlton, 3255.
densifolia n. sp., Knowlton, 3255.
glascœna, Lesq., Lesquereux, 3470.
hadjdenii, Lesq., Kirchner, 3187.
haguei n. sp., Knowlton, 3255.
harrisiana n. sp., Hollick, 2708.
hesperia n. sp., Knowlton, 3262, 3264.
inæqualis n. sp., Lesquereux, 3470.
incompleta n. sp., Knowlton, 3264.
irregularis Lx., Knowlton, 3264.
krausiana Heer, Hollick, 2696.
krausiana Heer, Lesquereux, 3470.
lacustris n. sp., Knowlton, 3263.
laurophyllidia n. sp., Dawson, 1436.
lanceolata-acuminata Ett., Lesquereux, 3470.
lignitum Lx., Knowlton, 3264.
macrophylla n. sp., Lesquereux, 3470.
magnolifolia Lesq., Dawson, 1436.
magnoliæfolia Lesq., Lesquereux, 3470.
melanophylla n. sp., Lesquereux, 3470.
membranacea Newberry, Knowlton, 3232.
membranacea Newb., Newberry, 4083.
missouriensis n. sp., Knowlton, 3264.
montana n. sp., Knowlton, 3264.
mudgei n. sp., Lesquereux, 3470.
multinervis Heer, Knowlton, 3264.
myricoides Hollick n. sp., Newberry, 4080.
ovata n. sp., Newberry, 4080.
penitus?, Whitfield, 6097.
planicostata Lx., Hollick, 2708.
planicostata? Lx., Knowlton, 3264.
planicostata Lesq.?, Newberry, 4083.
populoides n. sp., Knowlton, 3264.
præcursor n. sp., Lesquereux, 3470.
precedens n. sp., Whitfield, 6097.
problematica n. sp., Knowlton, 3264.
proteoides n. sp., Lesquereux, 3470.
reticulata (Lesq.) Hollick, Newberry, 4083.
rhamnoides n. sp., Knowlton, 3264.
rotundata n. sp., Dawson, 1436.
shastensis (?) Lesq., Dawson, 1448.
shastensis, Knowlton, 3235.
cf. sordida Lesquereux, Knowlton, 3262.
sordida, Knowlton, 3235.
speciosissima Ward, Knowlton, 3264.
squarrosa n. sp., Knowlton, 3264.
sternbergii n. sp., Lesquereux, 3470.
tillæfolia Al. Br., Knowlton, 3264.

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Genera and species described—Continued.

- Ficus trinervis* n. sp., Knowlton, 3264.
undulata n. sp., Lesquereux, 3470.
ungeri Lx., Knowlton, 3246, 3255.
wardii n. sp., Knowlton, 3264.
wellingtonæ n. sp., Dawson, 1436.
willisiana n. sp., Hollick, 2672.
woolconi Newb. (?), Hollick, 2696.
woolsoni n. sp., Newberry, 4092.
 sp., Knowlton, 3255, 3262.
Fissurella alabama n. sp., Harris, 3216.
bipunctata n. sp., Stanton, 5199.
griscomi, Whitfield, 6101.
mediavia n. sp., Harris, 2310.
redimicula, Say, 4813.
Fissuridea caloosænsis n. sp., Dall, 1259.
carditella n. sp., Dall, 1259.
carolinensis Conrad, Dall, 1259.
chipolana n. sp., Dall, 1259.
nucula n. sp., Dall, 1259.
Fistulana (Bruguiere) Cuvier, Dall, 1272.
ocalana n. sp., Dall, 1272.
Fistulicella n. gen., Simpson, 4983.
Fistulicella Simpson, Grabau, 2086.
plana Hall, Grabau, 2086.
Fistulipora, Simpson, 4983.
Fistuliporella n. gen., Simpson, 4983.
Fistuliporidra n. gen., Simpson, 4983.
Fistuliporina n. gen., Simpson, 4983.
Fistuliporina Simpson, Grabau, 2086.
digitata (Hall), Grabau, 2086.
micropora (Hall), Grabau, 2086.
minuta (Rominger), Grabau, 2086.
scrobiculata (Hall), Grabau, 2086.
segregata (Hall), Grabau, 2086.
Flabellina cordata Reuss, Bagg, 150.
sagittaria (Lea), Bagg, 150.
Flabelliporella, Simpson, 4983.
Flabellum californicum n. sp., Vaughan, 5735.
conoideum n. sp., Vaughan, 5735.
 var. *matthewsenses*, n. var., Vaughan, 5735.
cuneiforme Lonsdale, Vaughan, 5735.
 var. *acutiforme* n. var., Vaughan, 5735.
 var. *fragile* n. var., Vaughan, 5735.
 var. *magnocostatum* n. var., Vaughan, 5735.
 var. *pachyphyllum* Gabb and Horn, Vaughan, 5735.
 var. *wailei* Conrad, Vaughan, 5735.
flabellum sp., Vaughan, 5735.
johnsoni n. sp., Vaughan, 5735.
lerchi n. sp., Vaughan, 5735.
mortoni n. sp., Vaughan, 5735.
remondianum Gabb, Stanton, 5198.
 Gabb, Vaughan, 5735.
rhomboideum n. sp., Vaughan, 5735.
Fletcheria Milne-Edwards and Haime, Lambe, 3374.
incerta Billings (sp.), Lambe, 3374.
Fontainea n. gen., Newberry, 4080.
grandifolia n. sp., Newberry, 4080.
Forodicerias n. gen., Hyatt, 2816.
Forbesocrinus agassizi Hall, Keyes, 3061.
greenei n. sp., Miller and Gurley, 4000.
jerseyensis n. sp., Miller and Gurley, 3999.

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- Forbesoerinus macadamsi n. sp., Miller and Gurley, 4000.
 multibrachiatus Lyon and Casseday, Miller and Gurley, 3999.
 pyriformis n. sp., Miller and Gurley, 3997a.
 speciosus n. sp., Miller and Gurley, 3991.
 washingtonensis n. sp., Miller and Gurley, 4000.
 Fornax ledensis, Seudder, 4896.
 Fossarus (Gottoina) mundulus n. sp., Guppy and Dall, 2214.
 (Isapis) anomala C. B. Adams, Dall, 1259.
 Fraxinus affinis Newb., Newberry, 4083.
 denticulata Heer, Knowlton, 3255.
 Heer?, Newberry, 4083.
 herendenensis n. sp., Knowlton, 3232.
 integrifolia Newb., Newberry, 4083.
 johnstrupi (?) Heer, Hollick, 2696.
 quadrangulata, Dawson, G. M., 1418.
 Michx., Penhallow, 4334.
 wrightii n. sp., Knowlton, 3255.
 Frenclopsis gracilis n. sp., Newberry, 4080.
 hoheneggeri, Fontaine, 1846.
 (Ett.) Schenk, Fontaine, 1847.
 (Ett.) Schenk (?), Newberry, 4080.
 varians n. sp., Fontaine, 1846, 1847.
 Frondicularia alata d'Orbigny, Bagg, 100.
 angusta (Nilsson) var. dimidia Bagg, Bagg, 150.
 var. dimidia, Bagg, 144.
 archiaciana d'Orbigny, var. strigillata n. var., Bagg, 150.
 clarki, n. sp., Bagg, 144, 150.
 gaultina Reuss, Bagg, 150.
 inversa Reuss, Bagg, 144, 150.
 lanceola Reuss, Bagg, 144, 150.
 major Bornemann, Bagg, 150.
 ovata Roemer, Bagg, 150.
 pulchella Karrer, Bagg, 150.
 reticulata (Reuss), Bagg, 150.
 verneuillina d'Orbigny, Bagg, 150.
 Fucus digitatus n. sp., Penhallow, 4336.
 Fulgur argutus n. sp., Clark, 904.
 canaliculatus, Say, 4813.
 carica, Woolman, 6474.
 (?) dallianum n. sp., Harris, 2310.
 echinatum n. sp., Dall, 1259.
 eliceans, Say, 4813.
 cocense n. sp., Aldrich, 73.
 maximum Conrad, Dall, 1259.
 perversum Linné, Dall, 1259.
 pyrum var. apynotum, Dall, 1259.
 (pyrum var.?) planulatum n. sp., Dall, 1259.
 scalarispira Conrad, Dall, 1259.
 spiniger Conrad, Dall, 1259.
 stellatum n. sp., Dall, 1259.
 Fulgurofusus argutus Clark, Clark, 906.
 triserialis Whitf., Harris, 2316.
 Fulica minor n. sp., Shufeldt, 4960.
 Fusispira Hall, Ulrich and Scofield, 5541.
 angusta n. sp., Ulrich and Scofield, 5541.
 var. subplana n. var., Ulrich and Scofield, 5541.

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- Fusispira convexa n. sp., Ulrich and Scofield, 5541.
 inflata Meek and Worthen, Ulrich and Scofield, 5541.
 intermedia n. sp., Ulrich and Scofield, 5541.
 nobilis n. sp., Ulrich and Scofield, 5541.
 planulata n. sp., Ulrich and Scofield, 5541.
 schucherti, n. sp., Ulrich and Scofield, 5541.
 subbrevis n. sp., Ulrich and Scofield, 5541.
 subfusiformis Hall, Ulrich and Scofield, 5541.
 sulcata n. sp., Ulrich and Scofield, 5541.
 Fusoscula juvenis Whitf., Harris, 2315, 2316.
 Fusulina cylindrica Fischer, Keyes, 3061.
 cylindrica, Smith, 5001.
 Fusus angularis n. sp., Whitfield, 6097.
 ballista n. sp., Dall, 1259.
 bastropensis, n. sp., Harris, 2307.
 bellanus n. sp., Harris, 2311, 2316.
 burnsi Dall, Dall, 1259.
 caloosensis Heilprin, Dall, 1259.
 costatus, Say, 4813.
 cocenicus n. sp., Whitfield, 6097.
 equalis Emmons, Dall, 1259.
 fragilis Wagner, Dall, 1273.
 gabbi Meek, Herrick and Johnson, 2465.
 gabbi Meek, Stanton, 5191.
 graysonensis n. sp., Cragin, 1115.
 harrisi n. sp., Aldrich, 73.
 harrisi Ald., Harris, 2315.
 hector n. sp., Whitfield, 6097.
 var. multilineatus n. var., Whitfield, 6097.
 holmdelensis n. sp., Whitfield, 6097.
 hubbardanus n. sp., Harris, 2310.
 insectoides n. sp., Harris, 2311.
 interstriatus Heilp., Harris, 2316.
 marnoechi, Aldrich, 74.
 meyeri var., Harris, 2310.
 (?) mohri n. sp., Aldrich, 73.
 mohri, Harris, 2310.
 montgomeriensis n. sp., Vaughan, 5722.
 mortoni Lea, var., Harris, 2311.
 ostrarupis n. sp., Harris, 2307, 2310.
 ottonis Ald., Harris, 2716.
 paucicostatus n. sp., Whitfield, 6097.
 perobesus n. sp., Whitfield, 6097.
 pluricostatus n. sp., Whitfield, 6097.
 quercollis n. sp., Harris, 2310.
 quinquespinus n. sp., Dall, 1259.
 rugatus Ald., Harris, 2311, 2316.
 shumardi H. and M., Herrick and Johnson, 2465.
 shumardi H. and M., Stanton, 5191.
 siphus n. sp., Aldrich, 73.
 subflorus n. sp., Aldrich, 74.
 subtenuis Heilp., Harris, 2316.
 supraplanus n. sp., Cooper, 1071.
 tortilis, Harris, 2310.
 umbilicatus Wagner, Dall, 1273.
 (?) whitfieldi n. sp., Aldrich, 73.
 (Buccinofusus) harrisi Ald., Harris, 2316.
 (Chrysodomus?) nexilis n. sp., Dall, 1259.

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Genera and species described—Continued.

- Fusus* (*Levifusus*) *trabeatus* Conrad, Clark, 906.
 (*Neptunea*?) *staminea*, Whitfield, 6097.
 venenatus n. sp., Stanton, 5191.
 (*Strepsidura*) *perlatus* Conrad, Clark, 906.
 (*Urosalpinx*?) *multicostatus* n. sp., Stanton, 5191.
 sp., Clark, 906.
 sp., Logan, 3555.
 sp. undet., Dall, 1259.
Galeocерdo *contortus* Gibbes, Clark, 906.
Galeomma, Turton, Dall, 1281.
Galerita *marshii* n. sp., Scudder, 4900.
Galerucella *picca*, Scudder, 4896.
Galesaurus, Case, 768.
Galla *quercina* n. sp., Lesquereux, 3470.
Gallicus n. gen., Hay, 2380.
Gallinuloides *wyomingensis*, n. gen. et sp., Eastman, 1610.
 wyomingensis, Eastman, Lucas, 3590.
Ganorhynchus *oblongus* n. sp., Cope, 1082.
Gastrioceras Hyatt, Smith, 5046.
 branneri n. sp., Smith, 5046.
 entogonum?, Hyatt, 2816.
 excelsum Meek, Smith, 5046.
 globulosum Meek and Worthen, Smith, 5046.
 marianum Verneul, Smith, 5046.
 sp. undet., Smith, 5046.
Gastrochaena *cimitariopsis* n. sp., Harris, 2310.
cuneiformis Spengler, Dall, 1272.
gainesensis n. sp., Harris, 2310.
larva Con., Aldrich, 73.
ovata Sowerby, Dall, 1272.
 sp., Clark, 906.
 (*Spengler*) Cuvier, Dall, 1272.
 (*Spengleria*) Tryon, Dall, 1272.
 var. *rotunda* Dall, Dall, 1272.
Gaudryina *pupoides* d'Orbigny, Baggs, 150.
 pupoides d'Orbigny, Woodward and Thomas, 6438.
Gaza? *aldrichiana* n. sp., Harris, 2307.
Gazacrinus n. gen., Miller, 3995.
Gazacrinus S. A. Miller, Weller, 6002.
 inornatus n. sp., Miller, 3995.
 major, n. sp., Weller, 6002.
 minor, n. sp., Weller, 6002.
Geinitzia *biformis* Lx. sp., Knowlton, 3264.
 formosa Heer, Hollick, 2698.
 formosa Heer, Knowlton, 3264.
 formosa Herr (?), Newberry, 4580.
 jenneyi n. sp., Fontaine, 1850.
 longifolia Lx. sp., Knowlton, 3264.
Gemmaocrinus W. and S., Grabau, 2086.
 W. and Sp., Wachsmuth and Springer, 5765a.
 eucharis (Hall), Grabau, 2086.
 eucharis (Hall), Wachsmuth and Springer, 5765a.
 kentuckiensis (Shumard), Wachsmuth and Springer, 5765a.
 nyssa (Hall), Grabau, 2086.
 trijugis Miller, Keyes, 3061.
Geodia? (?) *austini* n. sp., Merrill, 3969.
 (?) *cretacea* n. sp., Merrill, 3969.

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- Geodia* (?) *hilli* n. sp., Merrill, 3969.
 (?) *irregularis* n. sp., Merrill, 3969.
 spini-curvata n. sp., Merrill, 3969.
 (?) *spinipanisata* n. sp., Merrill, 3969.
 texana n. sp., Merrill, 3969.
 (?) *tripunctata* n. sp., Merrill, 3969.
 sp., Merrill, 3969.
Geodromicus *abditus* n. sp., Scudder, 4900.
 stiricidii, Scudder, 4896.
Gephyroceras Hyatt, Clarke, 960.
 perlatum Hall (sp.), Clarke, 960.
 (?) (*Probeloceras*?) *gunendewa* n. sp., Clarke, 960.
Gerablattina, Scudder, 4898.
 abdicata n. sp., Scudder, 4898.
 apicalis n. sp., Scudder, 4898.
 cassvici n. sp., Scudder, 4898.
 concinna n. sp., Scudder, 4898.
 deducta n. sp., Scudder, 4898.
 diversinervis n. sp., Scudder, 4898.
 eversa n. sp., Scudder, 4898.
 fraterna, Scudder, 4898, 4892.
 inculta n. sp., Scudder, 4898.
 lata n. sp., Scudder, 4898.
 minima n. sp., Scudder, 4898.
 ovata n. sp., Scudder, 4898.
 perita n. sp., Scudder, 4898.
 permacra n. sp., Scudder, 4898.
 permanenta n. sp., Scudder, 4898.
 radiata n. sp., Scudder, 4898.
 richmondiana n. sp., Scudder, 4898.
 scapularis, Scudder, 4898, 4892.
 uniformis n. sp., Scudder, 4898.
Geracus *tubifer* n. sp., Matthew, 3774.
Geralophus n. gen., Scudder, 4890.
 antiquarius, Scudder, 4890.
 discessus, Scudder, 4890.
 fossicius, Scudder, 4890.
 lassatus, Scudder, 4890.
 occultus, Scudder, 4890.
 pumiceus, Scudder, 4890.
 repositus, Scudder, 4890.
 retritrus, Scudder, 4890.
 saxuosus, Scudder, 4890.
Gerancon Scudder, Scudder, 4895.
 petrorum, Scudder, 4895.
Gerasaphes n. subgen., Clarke, 952.
 ulrichiana n. sp., Clarke, 952.
Gervillea *newcombii* n. sp., Whiteaves, 6095a.
 propleura (Meek), Stanton, 5191.
Gervillioopsis *invaginata* (White), Craigin, 1115.
Gibbula *americana* n. sp., Dall, 1259.
 glandula (Conrad), Clark, 906.
Gilbertocrinus *greenei* n. sp., Miller and Gurley, 3997d.
 indianensis n. sp., Miller and Gurley, 3997d.
 spinigerus, Whitfield, 6099.
 typus (Hall), Keyes, 3061.
Ginkgo *laramiensis* Ward., Knowlton, 3264.
Girvanella *labyrinthica*, James, 2881.
 richmondensis, James, 2881.
Gladilolites *venosus* (Hall), Gurley, 2217.
Glæocapsa, Rothpletz, 4667.

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- Glandina truncata* var. *macer*, Dall, 1259.
Glassia Davidson, Hall and Clarke, 2261, 2264.
 romingeri, Hall and Clarke, 2268.
Glassina Hall, Hall and Clarke, 2264.
Glauconia coalvillensis (Meek), Stanton, 5191.
Glauconome Goldfuss, Grabau, 2086.
 Simpson, 4983.
 carinata Hall, Grabau, 2086.
Gleichenia giesekiana Heer (?), Newberry, 4080.
 gracilis Heer (?), Hollick, 2696.
 micromera Heer (?), Newberry, 4080.
 ? *obscura* n. sp., Knowlton, 3263.
 zippei (Corda) (Heer)?, Fontaine, 1850.
 zippei Herr (?), Newberry, 4080.
Glenopteris n. gen., Sellards, 4907.
 lineata n. sp., Sellards, 4907.
 lobata n. sp., Sellards, 4907.
 simplex n. sp., Sellards, 4907.
 splendens n. sp., Sellards, 4907.
 sterlingi n. sp., Sellards, 4907.
Globiconcha (Tylostoma) *curta*, Whitfield, 6097.
Globigerina bulloides d'Orbigny, Bagg, 148, 150.
 bulloides, McClung, 3840.
 var. *triloba* Reuss, Bagg, 150.
 bulloides d'Orbigny, Woodward and Thomas, 6433.
 cambrica n. sp., Matthew, 3761.
 cretacea d'Orbigny, Bagg, 150.
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 didyma n. sp., Matthew, 3761.
 grandis n. sp., Matthew, 3761.
 marginata Reuss, Woodward and Thomas, 6433.
 sacculifera H. B. Brady, Woodward and Thomas, 6433.
 spinosa, McClung n. sp., McClung, 3840.
 turrita n. sp., Matthew, 3761.
Glomus Jeffreys, Dall, 1272.
Glossites (?) *burlingtonensis* n. sp., Weller, 6006. *elliptica* (Win.), Weller, 6006.
 manitobensis (nom. prov.), Whiteaves, 6096.
Glossograptus arthracanthus n. sp., Gurley, 2217.
Glossotrypa, Simpson, 4983.
Glossozamites fontineanus Ward n. sp., Fontaine, 1850.
Glycymeria alabama n. sp., Harris, 2313.
Glycymeris Da Costa, Dall, 1272.
 americana DeFrance, Dall, 1272.
 duplinensis n. sp., Dall, 1272.
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 kevis Tuomey and Holmes, Dall, 1272.
 parilis Conrad, Dall, 1272.
 pectinata Gmelin, Dall, 1272.
 penñacea Lamarck, Dall, 1272.
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Glyphioceras cumminsi n. sp., Hyatt, 2816.
 diadema Goldfuss, Smith, 5046.
 incisum n. sp., Hyatt, 2816.
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- Glyphioceras spilæricus* Martin (?), Weller, 5986.
Glyphostoma harrisi n. sp., Aldrich, 73.
 johnsoni n. sp., Dall, 1259.
 watsoni n. sp., Dall, 1259.
Glyptaster milligane n. sp., Miller and Gurley, 4001.
Glyptocrinus Hall, James, 2889.
 decadactylus Hall, James, 2889.
 dyeri Meek, James, 2889.
 fornshelli S. A. Miller, James, 2889.
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 miamiensis S. A. Miller, James, 2889.
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 shafferi S. A. Miller, James, 2889.
 subglobosus Meek, James, 2889.
Glyptodon, Case, 769.
Glyptopora plumosa (Prout), Keyes, 3062.
Glyptostrobus brookensis (Fontaine) Ward, Fontaine, 1850.
 europæus (Brong.) Heer, Newberry, 4083.
 gracillinus, Knowlton, 3234.
 ? sp., Knowlton, 5264.
Glyptostyla panamensis n. sp., Dall, 1259.
Gmelin, Woolman, 6474.
Gnathodon clathrodon Conrad (emended), Dall, 1265.
 lecontei Conrad, Dall, 1265.
 cuneatus Gray, Dall, 1265.
 johnsoni Dall, 1265.
 (*Rangianella*) Conrad, 1265.
Goldia subelliptica, Stanton, Herrick and Johnson, 2465.
Gomphoceras Sowerby, Grabau, 2086.
 amphora, Whitfield, 6099.
 clarki n. sp., Miller, 3992.
 hyatti, Whitfield, 6099.
 indianense n. sp., Miller and Faber, 3997.
 lunatum Hall, Grabau, 2086.
 manes Hall, Grabau, 2086.
 Mitriiformis n. sp., Clarke, 946.
 sciotoense, Whitfield, 6099.
Gomphognathus, Case, 768.
Gomphotherium Cope, Wortman, 6493.
 cameloides n. sp., Wortman, 6493.
 serus n. sp., Douglas, 6540.
 sternbergi Cope, Wortman, 6493.
Gongylospongia n. gen., Hall and Clarke, 2269, 2270.
 complanatus Hall, Grabau, 2086.
 marshi n. sp., Hall and Clarke, 2269, 2270.
 rhynchostoma Clarke, Grabau, 2086.
 sorium Clarke, Grabau, 2086.
Goniacodon Cope, Matthew, 3801.
 levisanus (Cope), Matthew, 3801.
Goniaster mammillata Gabb, Clark, 892.
Goniasteroideocrinus faberi n. sp., Miller and Gurley, 4001.
 lyonanus n. sp., Miller and Gurley, 3997a.
 tuberosus, Miller, 3992.
Goniatites de Haan, Grabau, 2086.
 blairi n. sp., Miller and Gurley, 4002.
 brownensis, n. sp., Miller, 3992.
 elkhornensis n. sp., Miller and Gurley, 4002.

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- Goniatis fultonensis* n. sp., Miller and Gurley, 4002.
gorbyi n. sp., Miller, 3992.
greencastlensis n. sp., Miller and Gurley, 4002.
greenii n. sp., Miller, 3995.
illinoisensis n. sp., Miller and Gurley, 4002.
indianensis n. sp., Miller, 3992.
jessiae n. sp., Miller and Gurley, 4002.
kansasensis n. sp., Miller and Gurley, 4002.
kentuckiensis, Miller and Gurley, 4002.
leviculus n. sp., Miller and Faber, 3993.
limatus n. sp., Miller and Faber, 3993.
lunatus n. sp., Miller and Gurley, 4002.
marshallensis, Lane, 3400.
missouriensis n. sp., Miller and Faber, 3993.
montgomeryensis n. sp., Miller and Gurley, 4002.
occidentalis n. sp., Miller and Faber, 3993.
parrishi n. sp., Miller and Gurley, 4002.
sciotoensis n. sp., Miller and Faber, 3993.
subcavus n. sp., Miller and Gurley, 4002.
(Gephyroceras) holzapfeli Clarke, Grabau, 2086.
(Mantioceras) intumescens Beyrich, Grabau, 2086.
(Probeloceras) lutheri Grabau, 2086.
(Tornoceras) bicostatus Hall, Grabau, 2086.
unifangularis Conrad, Grabau, 2086.
Goniobasis? (?) *increbescens* n. sp., Stanton, 5206.
jeffersonensis n. sp., White, C. A., 6035.
pealei n. sp., Stanton, 5206.
texana Heilprin, Aldrich, 73.
Gonioceras Hall, 1847, Clarke, 953.
anceps Hall, 1847, Clarke, 953.
occidentale Hall, 1861, Clarke, 953.
occidentale, Whitfield, 6102.
Gonioerinus sculptilis n. gen. et sp., Miller and Gurley, 3991.
Goniomya calderoni n. sp., Aguilera, 57.
montanaensis Meek, Logan, 3559.
sp., Logan, 3559.
Goniopholis, Case, 768.
Goniophora Phillips, Grabau, 2086.
dubia, Whitfield, 6099.
jennae (Win.), Weller, 6006.
modiomorphoides n. sp., Grabau, 2086, 2087.
woodwardi, n. sp., Clarke, 976.
sp.?, Clarke, 971.
Goniophyllum pyramidale Hisinger, Weller and Davison, 5978.
Goniopygus zitteli Clark, Clark, 892.
zitteli Clark, Cragin, 1115.
Goniotrypa, Simpson, 4983.
Gonomyia frigida, Scudder, 4894.
labefactata, Scudder, 4894.
primogenitalis, Scudder, 4894.
profundi, Scudder, 4894.
Gorgonichthys clarki, Claypole, 990.
Gosselettia Barrios, Grabau, 2086.
retusa Hall, Grabau, 2086.
Grammatodon M. and H., Woods, 6431.
Grammysia de Verneuil, Grabau, 2086.

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- Grammysia amygdales* (Win.), Weller, 6006.
arcuata (Conrad), Grabau, 2086.
bisulcata, Whitfield, 6099.
blairi n. sp., Miller, 3992.
burmeisteri n. sp., Clarke, 976.
gardneri n. sp., Clarke, 976.
grammysia sp., Clarke, 976.
imbricata n. sp., Rowley, 4677a.
lundi n. sp., Clarke, 976.
pissisi n. sp., Clarke, 976.
plena Hall, Weller, 6006.
ulrichi n. sp., Clarke, 976.
Granatoerinus aplatus (Rowley and Hare), Rowley, 4677.
calycinus n. sp., Rowley, 4677.
mutabilis n. sp., Rowley, 4673.
norwoodi (Owen and Shumard), Keyes, 3061.
sphaeroidalis n. sp., Miller and Gurley, 3997a.
spinuliferus n. sp., Rowley, 4677.
stella n. sp., Rowley, 4677.
winslowi n. sp., Miller and Gurley, 3997a.
sp.?, Rowley, 4677.
Graphioerinus tortuosus, Whitfield, 6098.
Graphularia perplexa (de Gregorio), Vaughan, 5735.
Graptodictya, Simpson, 4983.
Graptolithus, James, 2881.
laevis Hall, Gurley, 2217.
(Diplograptus) peosta, Whitfield, 6102.
Grewia crenata (Ung.) Heer, Newberry, 4083.
Grewiopsis aequidentata n. sp., Lesquereux, 3470.
? aldersoni n. sp., Knowlton, 3255.
eleburni Lx., Knowlton, 3264.
mudgei n. sp., Lesquereux, 3470.
Griffithides ornata n. sp., Vogdes, 5758.
Griphodictya n. gen., Hall and Clarke, 2269, 2271.
eliphanes n. sp., Hall and Clarke, 2269, 2271.
Gruenewaldtia, see *Atrypa* (*Gruenewaldtia*) *Tschernyschew*, Hall and Clarke, 2261.
Gryphaea subgen. *Lamarck*, Dall, 1272.
corrugata Say (n. gen. *G. corrugata* Hill), Hill and Vaughan, 2561.
forniculata, Stanton, 5197.
galceola var. *nebrascensis* Meek and Hayden, Stanton, 5206.
gibberosa n. sp., Cragin, 1115.
gibberosa Cragin, Hill and Vaughan, 2561.
marcoui n. sp., Hill and Vaughan, 2561.
mucronata Gabb, Hill and Vaughan, 2561.
navia Hall, Hill and Vaughan, 2561.
newberryi n. sp., Stanton, 5191.
newberryi Stanton, Hill and Vaughan, 2561.
persimilis (nom. prov.), Whiteaves, 6095a.
pitcheri Morton, Hill and Vaughan, 5161.
var. hilli Cragin, Hill and Vaughan 2561.
pitcheri, Stanton, 5197.
planoconvexa Whitfield, Stanton, 5206.
tucumcarii, Stanton, 5197.

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- Gryphaea vesicularis Lam., Harris, 2315.
 vesicularis, Herrick and Johnson, 2465.
 vesicularis Lamarek, Whiteaves, 6085.
 wardi n. sp., Hill and Vaughan, 2561.
 washitaensis Hill, Hill and Vaughan, 2561.
 Grypidius corcirostris, Scudder, 4890.
 Grypodon, Hay, 2381.
 Guerangeria, or Nyassa ortonii n. sp., Clarke, 976.
 Gulo liscus Linn, Cope, 1104.
 Gwynia King, Hall and Clarke, 2264.
 Gymnetron antecurrens, Scudder, 4890.
 Gypidula Hall, Hall and Clarke, 2261a, 2264.
 romingeri, Hall and Clarke, 2268.
 Gyrocera columbiense, Whitfield, 6099.
 numa Billings, Whiteaves, 6089.
 seminodosum, Whitfield, 6099.
 Gyrodes abbotti, Whitfield, 6097.
 altispira, Whitfield, 6097.
 conradi Meek, Stanton, 5191.
 crenata, Whitfield, 6097.
 depressa, Meek, Herrick and Johnson, 2465.
 depressa Meek, Stanton, 5191.
 duplinensis n. sp., Dall, 1269.
 infracarinata, Whitfield, 6097.
 obtusivolv, Whitfield, 6097.
 petrosus, Whitfield, 6097.
 Gyrodes (Gyrodiscia) Dall, Dall, 1269.
 Gyronema n. gen. or subgen., Ulrich and Scofield, 5541.
 duplicatum n. sp., Ulrich and Scofield, 5541.
 liratum n. sp., Ulrich and Scofield, 5541.
 pulchellum n. sp., Ulrich and Scofield, 5541.
 semicarinatum Salter, Ulrich and Scofield, 5541.
 Gyroptychius, Case, 766.
 Habrocrinus Angelin, Wachsmuth and Springer, 5765a.
 Habrocrinus d'Orb., Grabau, 2086.
 aeneocrinus W. and Sp., Wachsmuth and Springer, 5765a.
 pentadactylus n. sp., Grabau, 2086.
 Hadrianus schucherti n. sp., Hay, 2382.
 Hadrophylum, E. and H., Grabau, 2086.
 glans White, Keyes, 3061.
 tennesseense n. sp., Miller and Gurley, 3998.
 woodi n. sp., Grabau, 2086.
 Hadrosaurus, Case, 768.
 Haguia n. gen., Walcott, 5816.
 spherica n. sp., Walcott, 5816.
 Haimesiastrea conferta n. sp., Vaughan, 5735.
 petrosa (Gabb), Vaughan, 5735.
 Halinosaurus, Williston, 6245.
 Halichondrites confusus Dawson, Dawson, 1452.
 Haliseri teslineatus n. sp., Penhallow, 4333.
 chondriformis n. sp., Penhallow, 4333.
 Halliella Ulrich, Ulrich, 5540.
 labiosa n. sp., Ulrich, 5540.
 Hallina n. gen., Winchell and Schuchert, 6298, 6319.

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- Hallina N. H. Winchell and Schuchert, Hall and Clarke, 2264.
 nicolleti n. sp., Winchell and Schuchert, 6298, 6319.
 saffordi, Winchell and Schuchert, 6298, 6319.
 Hallodyctia n. gen., Hall and Clarke, 2269, 2270.
 cottoniana n. sp., Hall and Clarke, 2269, 2270.
 sciensis n. sp., Hall and Clarke, 2269, 2270.
 Hallopus, Case, 768.
 Hallopus Marsh, 3701.
 Halorella Bittner, Hall and Clarke, 2264.
 Halymenites major Lx., Knowlton, 3264.
 Halysites Fischer, Lambe, 3374.
 agglomeratiformis n. sp., Whitfield, 6112.
 catenularia L., Lambe, 3374.
 var. amplitubulata n. var., Lambe, 3374.
 var. gracilis Hall, Lambe, 3374.
 var. nitida n. var., Lambe, 3374.
 var. quebecensis n. var., Lambe, 3374.
 var. simplex n. var., Lambe, 3374.
 catenularia L., var., gracilis, Whiteaves, 6087.
 compacta Rominger, Lambe, 3374.
 micropora Whitfield, Lambe, 3374.
 Haminea pompholyx n. sp., Dall, 1269.
 truncata, Stanton, Herrick and Johnson, 2465.
 truncata n. sp., Stanton, 5191.
 Hamites obstrictus Jimbo, Whiteaves, 6085.
 Haplocera carinata n. sp., Aguilera, 57.
 catorcensis n. sp., Aguilera, 57.
 mazapilensis n. sp., Aguilera, 57.
 Haploconus lineatus Cope, Osborn and Earle, 4191.
 Haplophragmium concava n. sp., Bagg, 144.
 concavum Bagg, Bagg, 150.
 irregulare (Roemer), Bagg, 150.
 Haploscapa eccentrica Conrad, Logan, 3554.
 grandis Conrad, Logan, 3554.
 niobrænsis, Logan, 3554.
 Hapsiphyllum n. gen., Simpson, 4984.
 Harpa jacksonensis n. sp., Harris, 2311.
 (?) occidentalis n. sp., Herrick and Johnson, 2465.
 Harpalus nuperis n. sp., Scudder, 4900.
 whitfieldii n. sp., Scudder, 4900.
 Harpes cassinensis n. sp., Whitfield, 6106.
 Harpina minnesotensis n. sp., Clarke, 952.
 cf. ottawensis Billings (sp.) Clarke, 952.
 rutrellum n. sp., Clarke, 952.
 Harrisia n. gen., Cleland, 1012.
 parabola n. s., Cleland, 1012.
 Harttina Hall, Hall and Clarke, 2264.
 Hausmannia rigida n. sp., Newberry, 4080.
 Hebertella, Hall and Clarke, 2260.
 Hedera cretacea n. sp., Lesquereux, 3470.
 decurrens n. sp., Lesquereux, 3470.
 microphylla n. sp., Lesquereux, 3470.
 obliqua n. sp., Newberry, 4080.
 orbiculata (Heer) Lesq., Lesquereux, 3470.
 ovalis Lesq., Lesquereux, 3470.

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- Hedera plantanoidea* Lesq., Lesquereux, 3470.
primordialis Sap., Newberry, 4080.
sp.?, Hollick, 2696.
Hederella Hall, Grabau, 2086.
Hederella Simpson, 4983.
arachnoidea n. sp., Clarke, 971.
canadensis (Nicholson), Grabau, 2086.
filiformis (Billings), Grabau, 2086.
gracilior n. sp. Clarke, 971.
magna Hall and Simpson, Clarke, 971.
ranea n. sp., Clarke, 971.
Helcion granulatus n. sp., Stanton, 5199.
 (?) *tentorium*, Whitfield, 6097.
Helcionopsis n. gen., Ulrich and Scofield, 5541.
striata n. sp., Ulrich and Scofield, 5541.
subcarinata n. sp., Ulrich and Scofield, 5541.
Helenia Walcott, Matthew, 3790.
granulata, Matthew, 3790.
Helicancylus Gabb, Hyatt, 2819.
Helicina ballista n. sp., Dall, 1259.
var. tampæ Dall, 1259.
Helicodictya n. gen., Hall and Clarke, 2269, 2270.
 (?) *concordia* n. sp., Hall and Clarke, 2269, 2270.
 (?) *scio* n. sp., Hall and Clarke, 2269, 2270.
trypania n. sp., Hall and Clarke, 2269, 2270.
Helicopora, Simpson, 4983.
Helicoprion, Eastman, 1607.
Helicotoma Salter, Ulrich and Scofield, 5541.
declivis Safford, Ulrich and Scofield, 5541.
granosa n. sp., Ulrich and Scofield, 5541.
marginata n. sp., Ulrich and Scofield, 5541.
planulata Salter, Ulrich and Scofield, 5541.
var. robusta n. var., Ulrich and Scofield, 5541.
planulatoides n. sp., Ulrich and Scofield, 5541.
subquadrata n. sp., Ulrich and Scofield, 5541.
tennesseensis Safford, Ulrich and Scofield, 5541.
umbilicata n. sp., Ulrich and Scofield, 5541.
verticalis n. sp., Ulrich and Scofield, 5541.
Helioceras corrugatum n. sp., Stanton, 5191.
 (?) *corrugatum* Stanton, Logan, 3554.
pariense White, Stanton, 5191.
Heliolites, James, 2881.
Heliolites Dana, Lambe, 3374.
inordinata Lonsdale (sp.), Lambe, 3374.
interincta L., Lambe, 3374.
perelegans n. sp., Whitfield, 6112.
shepardi, James, 2881.
subtubulata McCoy (sp.) Lambe, 3374.
Heliohyllum Hall, Grabau, 2086.
agassizi n. sp., Greene, 2162a.
beecheri, n. sp., Greene, 2162b.
bordeni n. sp., Greene, 2162a.
confluens Hall, Grabau, 2086.
flos n. sp., Greene, 2162b.

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- Heliohyllum gurleyi* n. sp., Greene, 2162a.
halli, E. and H. Grabau, 2086.
lemoi n. sp., Greene, 2162d.
minusculum n. sp., Greene, 2162d.
nanum n. sp., Greene, 2162.
nilesi n. sp., Greene, 2162a.
obesum n. sp., Greene 2162b.
osculatum, n. sp., Greene, 2162.
partitum, n. sp., Greene, 2162b.
seamani, n. sp., Greene, 2162b.
sherzeri n. sp., Greene, 2162d.
tumidulum n. sp., Greene, 2162.
turgidum n. sp., Greene, 2162a.
Helix adamnis n. sp., Dall, 1259.
crusta n. sp., Dall, 1259.
crusta var. *cunctator* Dall, Dall, 1259.
diespiter n. sp., Dall, 1259.
direpta n. sp., Dall, 1259.
haruspica n. sp., Dall, 1259.
instrumosa n. sp., Dall, 1259.
latebrosa n. sp., Dall, 1259.
 Linné (*Hygromia* Risso), Dall, 1259.
Helminthoidichnites meeki n. sp., Walcott, 5815.
 (?) *neihartensis* n. sp., Walcott, 5815.
 (?) *spiralis* n. sp., Walcott, 5815.
Helmersenian Pander, Hall and Clarke, 2260.
Helochelys, Case, 768.
Helodus coxanus n. sp., Newberry, 4082.
wortheni, Hay, 2381.
Helohyus plicodon, Marsh, 3690.
Helopora, Simpson, 4983.
Helopora Hall, Ulrich, 5537.
alternata Ulrich, Ulrich, 5537.
divaricata Ulrich, Ulrich, 5537.
elegans n. sp., Ulrich, 5537.
harrisi James, Ulrich, 5537.
mucronata Ulrich, Ulrich, 5537.
quadrata n. sp., Ulrich, 5537.
Hemiaster californicus Clark, Clark, 892.
calvini Clark, Clark, 892.
dalli Clark, Clark, 892.
humphreysanus Meek and Hayden, Clark, 892.
parastatus (Morton), Clark, 892.
stella (Morton), Clark, 892.
texanus Roemer, Clark, 892.
texanus Roemer, Cragin, 892.
ungula (Morton), Clark, 892.
Hemicidaritis intumescens Clark, Clark, 892.
Hemiganus otariidens Cope, Wortman, 6492.
Hemipedinia charltoni n. sp., Cragin, 1118.
Hemiphragma n. gen., Ulrich, 5537.
Hemiphragma, Simpson, 4983.
irrasum Ulrich, Ulrich, 5537.
ottawense Foord, Ulrich, 5537.
tenuimurale n. sp., Ulrich, 5537.
Hemiptychina Waagen, Hall and Clarke, 2261a, 2264.
Hemithlaeus kowalevskianus Cope, Osborn and Earle, 4191.
Hemithyris D'Orbigny, Hall and Clarke, 2264.
Hemitrypa, Simpson, 4983.
columellata Hall, Clarke, 971.
Heptacodon armatus, Marsh, 3682.

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- Heptacodon curtus, Marsh, 3682.
gibbiceps n. sp., Marsh, 3689.
Heptodon Cope, Wortman, 6489.
calculus Cope, Osborn and Wortman, 4180.
Hercoceras, Hyatt, 2819.
irregularis, Hyatt, 2819.
Hercoglossa paucifex, Whitfield, 6097.
Hernodia, Simpson, 4983.
Heterocrinus flabelliferus, Bather, 294.
Hesperornis, Marsh, 3708.
regalis, Williston, 6245.
Heteracanthus uddeni n. sp., Lindhal, 3513.
Heterocardia Deshayes, Dall, 1272.
Heteroceras (?) angulatum M. & H., Logan, 3554.
cochleatum M. & H., Logan, 3554.
conradi, Whitfield, 6097.
hornbyense nom. prov., Whiteaves, 6082.
perversum nom. prov., Whiteaves, 6082.
sp., Harris, 2315.
Heterocrinus subcrassus, Dyche, 1581.
Heterodonax Mörch, Dall, 1281.
Heterodontosuchus ganei n. gen. et sp., Lucas, 3584.
Heterorthis, Hall and Clarke, 2260.
Heterothops conticens n. sp., Scudder, 4900.
Heterospongia, James, 2881.
Heterospongia Ulrich, Winchell and Schuchert, 6318.
aspera, James, 2881.
subramosa, James, 2881.
subramosa? Ulrich, Winchell and Schuchert, 6318.
Heterotermia gabbi n. sp., Stanton, 5198.
striata n. sp., Stanton, 5198.
Heterotrypa, Simpson, 4983.
Heterotrypa Nicholson, Ulrich, 5537.
prolifera Ulrich, Ulrich, 5537.
singularis Ulrich, Ulrich, 5537.
Hexacrinus Austin, Wachsmuth and Springer, 5765a.
leai (Lyon), Wachsmuth and Springer, 5765a.
occidentalis W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
Hexarhizites insignis Haeckel, Walcott, 5811.
Hicoria crescentia n. sp., Knowlton, 3255.
culveri n. sp., Knowlton, 3255.
Hindella Davidson, Hall and Clarke, 2261, 2264.
Hindia, James, 2881.
fibrosa Roemer, Girty, 2034.
parva Ulrich, Winchell and Schuchert, 6318.
sphaeroidalis Duncan, Girty, 2037.
sphaeroidalis Duncan, Rauff, 4548.
var. para Ulrich, Rauff, 4548.
Hindsella Stoliczka, Dall, 1281.
acuta n. sp., Dall, 1281.
carolinensis n. sp., Dall, 1281.
faba O. Meyer, Dall, 1281.
(faba var.?) donacia Dall, 1281.
nephritica n. sp., Dall, 1281.
Hinnites crassus Conrad, Dall, 1272.

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- Hipparionyx Vanuxen, Hall and Clarke, 2260.
proximus Vanuxen, Clarke, 971.
Hippidium interpolatum Cope, n. sp. Cope, 1087.
? spectans Cope, Cope, 1087.
Hipponicharion cavatum n. sp., Matthew, 3751, 3761.
eos, Matthew, 3761.
minus n. sp., Matthew, 3751, 3761.
Hipponyx sylværupis n. sp., Harris, 2316.
tortilis n. sp., Guppy and Dall, 2214.
Hippurites flabellifer n. sp., Cragin, 1115.
Holasaphus n. gen., Matthew, 3767.
centropyge n. sp., Matthew, 3767.
Holaster completus n. sp., Cragin, 1115.
nanus n. sp., Cragin, 1115.
simplex Shumard, Clark, 1115.
simplex Shumard, Cragin, 1115.
supernus n. sp., Cragin, 1115.
Holasterella wrighti var. americana n. var., Girty, 2038.
Holcodiscus cumshewaensis, Whiteaves, 6095a.
Holectypus charltoni n. sp., Cragin, 1115.
planatus Roemer, Clark, 892.
planatus Roemer, Cragin, 1115.
transpecosensis n. sp., Cragin, 1115.
Holmiceras n. gen., Hyatt, 2819.
Holocephali, Case, 766.
Holocraspedum n. gen., Cragin, 1115.
Holoecystites adipatus n. sp., Miller, 3992.
affinis n. sp., Miller and Faber, 3994.
amplus n. sp., Miller, 3995.
asper n. sp., Miller and Gurley, 3998.
benedicti n. sp., Miller, 3992.
colletti n. sp., Miller, 3992.
commodus n. sp., Miller, 3992.
gorbyi n. sp., Miller, 3992.
gyrinus, Miller and Gurley, 3997c.
indianensis n. sp., Miller, 3992.
madisonensis n. sp., Miller, 3992.
ornatissimus n. sp., Miller, 3992.
papulosus n. sp., Miller, 3992.
parvulus n. sp., Miller, 3992.
parvus n. sp., Miller, 3992.
scitulus n. sp., Miller, 3992.
spangleri n. sp., Miller, 3992.
sphaeroidalis n. sp., Miller and Gurley, 3998.
splendens n. sp., Miller and Gurley, 3997c.
subovatus n. sp., Miller, 3992.
wykoffi n. sp., Miller, 3992.
Holomeniscus macrocephalus Cope, Cope, 1087.
sulcatus Cope, Cope, 1087.
Holonema, Williams, 1052.
horrida n. sp., Cope, 1082.
rugosa Clayp., Cope, 1082.
Holoepa Hall, Ulrich and Scofield, 5541.
ampla n. sp., Ulrich and Scofield, 5541.
appressa n. sp., Ulrich and Scofield, 5541.
concinnulla n. sp., Ulrich and Scofield, 5541.
excelsa n. sp., Ulrich and Scofield, 5541.
gracia Billings, Whiteaves, 6080.
grandis n. sp., Miller and Gurley, 4002.

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Genera and species described—Continued.

- Holopea harmonia* Billings, Whiteaves, 6080.
hubbardi n. sp., Miller, 3995.
insignis n. sp., Ulrich and Scofield, 5541.
newtonensis, Whitfield, 6099.
paludiformis, Ulrich and Scofield, 5541.
parvula n. sp., Ulrich and Scofield, 5541.
pyrene Billings, Ulrich and Scofield, 5541.
rotunda n. sp., Ulrich and Scofield, 5541.
similis n. sp., Ulrich and Scofield, 5541.
supraplana n. sp., Ulrich and Scofield, 5541.
turgida, Hall, Cleland, 1012.
Holoptychius, Case, 761.
americanus Leidy, Eastman, 1605.
filosus n. sp., Cope, 1082.
flabellatus n. sp., Cope, 1103.
latus n. sp., Cope, 1103.
serrulatus n. sp., Cope, 1103.
Holosaurus, Williston, 6245.
Homacodon priscus n. sp., Marsh, 3690.
vagans, Marsh, 3690.
Homalonotus Koenig, Grabau, 2086.
dekayi (Green), Grabau, 2086.
 sp. ? Clarke, 971.
Homalophyllum, n. gen., Simpson, 4984.
Homolopsis richardsoni Woodward, Whiteaves, 6095a.
richardsoni n. sp., Woodward, 6440.
Homomya gallatinensis n. sp., Stanton, 5206.
jurafacies n. sp., Cragin, 1115.
solida, n. sp., Cragin, 1115.
Homothetus erutus n. sp., Matthew, G. F., 3758.
Homotrypa, Simpson, 4983.
Homotrypa Ulrich, Ulrich, 5537.
callosa n. sp., Ulrich, 5537.
exilis Ulrich, Ulrich, 5537.
 ? *intercalaris* n. sp., Ulrich, 5537.
minnesotensis Ulrich, Ulrich, 5537.
obliqua Ulrich, James, 2896.
separata n. sp., Ulrich, 5537.
similis, Foord, Ulrich, 5537.
subramosa Ulrich, Ulrich, 5537.
tuberculati n. sp., Ulrich, 5537.
Homotrypella, Simpson, 4883.
Homotrypella Ulrich, Ulrich, 5537.
instabilis Ulrich, Ulrich, 5537.
multiportata n. sp., Ulrich, 5537.
mundula n. sp., Ulrich, 5537.
 ? *ovata* n. sp., Ulrich, 5537.
rustica n. sp., Ulrich, 5537.
 ? *subgracilis* n. sp., Ulrich, 5537.
Homoya washita n. sp., Cragin, 1118.
Hoplites angulatus n. sp., Stanton, 5199.
bifurcatus n. sp., Aguilera, 57.
calisto var., Aguilera, 57.
canadensis n. sp., Whiteaves, 6073.
cohglani n. sp., Aguilera, 57.
crassiplicatus n. sp., Stanton, 5199.
dilleri n. sp., Stanton, 5199.
exceptionalis n. sp., Aguilera, 57.
haidaquensis n. sp., Whiteaves, 6077, 6095a.
heilprini n. sp., Aguilera, 57.
hyatti n. sp., Stanton, 5199.
mcconnelli n. sp., Whiteaves, 6077.

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Genera and species described—Continued.

- Hoplites mexicanus* n. sp., Aguilera, 57.
newcombii n. sp., Whiteaves, 6095a.
roemeri n. sp., Cragin, 1115.
storsii n. sp., Stanton, 5199.
texanus n. sp., Cragin, 1115.
yakounensis n. sp., Whiteaves, 6095a.
 sp. ?, Aguilera, 57.
Hoploparia bennetti n. sp., Woodward, 6442.
westoni n. sp., Woodward, 6442.
Hoplophoneus occidentalis Leidy, Osborn and Wortman, 4189.
primævus, Adams, 37.
Hormorus saxorum, Scudder, 4890.
Hormotoma Salter, Ulrich and Scofield, 5541.
bellicincta Hall, Ulrich and Scofield, 5541.
gracilis Hall, Ulrich and Scofield, 5541.
 var., *angustata* Hall, Ulrich and Scofield, 5541.
 (?) var., *goodhuensis* n. var., Ulrich and Scofield, 5541.
 var. *multivolvina* n. var., Ulrich and Scofield, 5541.
 var. *sublaxa* n. var., Ulrich and Scofield, 5541.
 (?) major Hall, Ulrich and Scofield, 5541.
salteri n. sp., Ulrich and Scofield, 5541.
subangulata n. sp., Ulrich and Scofield, 5541.
trentonensis n. sp., Ulrich and Scofield, 5541.
winnipegensis n. sp., Whiteaves, 6087.
Hustedia n. gen., Hall and Clarke, 2261, 2264.
pygmæa n. sp., Rowley, 4677a.
Hyenodon ?, Osborn, 4190.
crusians Leidy, Osborn and Wortman, 4189.
cruentus Leidy, Scott, 4873.
mustelinus n. sp., Scott, 4876.
paucidens n. sp., Osborn and Wortman, 4189.
Hyalostella (?) *marcellia* n. sp., Clarke, 946.
Hyalostella metissica Dawson, Dawson, 1452.
Hyattella n. gen., Hall and Clarke, 2261, 2264.
Hybodus clarkensis, n. sp., Cragin, 1119.
copei, Hay, 2381.
regularis n. sp., Cope, 1076.
Hydnoceras Conrad, Hall and Clarke, 2269, 2270.
anthracis n. sp., Hall and Clarke, 2269, 2270.
avoca n. sp., Hall and Clarke, 2269, 2270.
barroisi nom. nov., Hall and Clarke, 2269, 2270.
bathense n. sp., Hall and Clarke, 2269, 2270.
botroedema n. sp., Hall and Clarke, 2269, 2270.
eumeces n. sp., Hall and Clarke, 2269, 2270.
euthetes n. sp., Hall and Clarke, 2269, 2270.
gracile n. sp., Hall and Clarke, 2269, 2270.
hyastrum n. sp., Hall and Clarke, 2269, 2270.
jeumontense n. sp., Hall and Clarke, 2269, 2270.

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Genera and species described—Continued.

- Hydnoceras legatum*, Hall and Clarke, 2269, 2270.
lutheri n. sp., Hall and Clarke, 2269, 2270.
multinodosum n. sp., Hall and Clarke, 2269, 2270.
nodosum Hall (sp.), Hall and Clarke, 2269, 2270.
phymatodes n. sp., Hall and Clarke, 2269, 2270.
rhopalum, n. sp., Hall and Clarke, 2269, 2270.
tuberosum Conrad, Hall and Clarke, 2269, 2270.
 var. glossema n. var., Hall and Clarke, 2269, 2270.
variabile n. sp., Hall and Clarke, 2269, 2270.
Hydreionocrinus acanthophorus (Meek and Worthen), Keyes, 3061.
crasidiscus n. sp., Miller and Gurley 3997a.
granuliferus n. sp., Miller and Gurley, 3997a.
kansasensis n. sp., Weller, 5987.
pentagonus n. sp. Miller and Gurley, 3991.
noduliferus n. sp., Miller and Gurley, 3997a.
sanctiludovici Worthen, Miller and Gurley, 3997a.
subsinuatus n. sp., Miller and Gurley, 3997a.
Hydriodictya n. gen., Hall and Clarke, 2269, 2270.
 cylix n. sp., Hall and Clarke, 2269, 2270.
 nephelia n. sp., Hall and Clarke, 2269, 2270.
 patula Hall, Hall and Clarke, 2269, 2270.
Hydroidia amnicoloides Pilsbry n. sp., Dall, 1259.
 mobiliiana Dall n. sp., Dall 1259.
 occulta n. sp., White, 6036.
 umplicata Pilsbry n. sp., Dall, 1259.
Hydrosus maceratus n. sp., Scudder, 4900.
Hydrocephalus careus, Beecher, 366.
 saturnoides, Beecher, 366.
Hydrocharis extricatus, n. sp., Scudder, 4900.
Hydrosera (Terpsinoe?) *novæ-cæsarææ*, n. sp., Boyer, 518.
Hylastes? *squalidens*, Scudder, 4896.
Hylterpeton, Case, 767.
 intermedium n. sp., Dawson, 1446.
Hylobites cretaceous, Scudder, 4896.
Hylobius lacoei, Scudder, 4890.
 packardii, Scudder, 4890.
Hylonomus, Case, 767.
Hypopus minor n. sp., Dawson, 1446.
 (?) *trifidus* n. sp., Dawson, 1446.
Hymenæa dakotana n. sp., Lesquereux, 3470.
 dakotana Lesq., Newberry, 4080.
Hymenaphia? sp., Merrill, 3969.
Hynniphoria Suess, Hall and Clarke, 2264.
Hyolithellus, Billings, Matthew, 3790.
 (?) *flexuosus*, Matthew, 3790.
 micans Billings, Grabau, 2092.
 micans Billings, Matthew, 3751, 3790.
Hyolithes Eichwald, Matthew, 3788, 3790.
 alatus n. sp., Whiteaves, 6074.

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Genera and species described—Continued.

- Hyolithes americanus* Billings, Grabau, 2092.
 billingsi Walcott (?), Grabau, 2092.
 carinatus n. sp., Matthew, 3788.
 communis Billings, Grabau, 2092.
 decipiens n. sp., Matthew, 3751.
 decipiens, Matthew, 3761.
 dubius n. sp., Miller and Faber, 3979.
 excellens Billings, Grabau, 2092.
 excellens, Bill, Matthew, 3790.
 gracilior n. sp., Matthew, 3761.
 hathewayi, n. sp., Matthew, 3789.
 (?) *haywardensis* n. sp., Grabau, 2092.
 impar Ford, Grabau, 2092.
 lanceolatus n. sp., Miller, 3995.
 cf. obesus Holm, Matthew, 3751.
 primordialialis Hall, Walcott, 5816.
 princeps Billings, Grabau, 2092.
 quadrilocatus Shaler and Foerste, Grabau, 2092.
 rugosus, Matthew, 3790.
 searsi n. sp., Grabau, 2092.
 shaleri Walcott, Grabau, 2092.
 cf. tenuistriatus Linrs., Matthew, 3767.
 cf. obtusa Bill, Matthew, 3761.
 versaillesensis n. sp., Miller and Faber, 3997.
 sp., Matthew, 3788.
Hyolithus ceratophilus n. sp., Clarke, 946.
Hyomeryx Marsh, Scott, 4883, 4884.
 breviceps n. gen. et sp., Marsh, 3690.
Hypotamus americanus Leidy, Osborn and Wortman, 4189.
 brachyrhynchus n. sp., Osborn and Wortman, 4189.
Hypentragulus Cope, Scott, 4883.
Hyperodapedon, Case, 768.
Hyphantænia Vanuxem (emendata), Hall and Clarke, 2269, 2270.
 chemungensis Vanuxem, Hall and Clarke, 2269, 2270.
Hypnum brownii n. sp., Kirchner, 3187.
 recurvans, Penhallow, 4336.
Hypopnopus Cope, n. gen., Cope, 1097.
 squaliceps n. sp., Cope, 1097.
Hyposaurus vebbi Cope, Williston, 6245.
Hypotemnodon n. gen., Eyermin, 1728.
 coryphæus n. sp., Eyermin, 1724.
Hypotherium gratum (H. *ingenuum* Leidy), Leidy, 3447.
 plicatile, Leidy, 3447.
 princeps, Leidy, 3447.
Hypothyris (McCoy) King, Hall and Clarke, 2261a, 2264.
 (Pugnax Hall) ?, Hall and Clarke, 2264.
Hypseloconus n. gen., Berkeley, 429.
 capuloides n. sp., Berkeley, 429.
 cornutiformis n. sp., Berkeley, 429.
 cylindricus n. sp., Berkeley, 429.
 franconiensis n. sp., Berkeley, 429.
 recurvus (Whitfield) var. *elongatus* n. var., Berkeley, 429.
 stabilis n. sp., Berkeley, 429.
Hypsipleura gregaria n. sp., Stanton, 5199.
 (?) *occidentalis* n. sp., Stanton, 5199.
Hyptiocrinus typus W. and Sp. n. gen. et sp., Wachsmuth and Springer, 5765.

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Genera and species described—Continued.

- Hyrachyus agrarius* Leidy, Osborn and Wortman, 4192.
- Hyracotherium* Owen, Wortman, 6489.
- craspedotum* Cope, Wortman, 6489.
- cristatum* n. sp., Wortman, 6489.
- index* Cope, Wortman, 6489.
- montanum* n. sp., Wortman, 6489.
- tapirinum* Cope, Wortman, 6489.
- vasaciense* Cope, Wortman, 6489.
- (*Philophus*) *cristonense* Cope, Wortman, 6489.
- Hysterites cordaitis* Gr.'Ey., White, 6050.
- Icanodus* ? *limitaris*, Hay, 2381.
- Ichthyocrinus* Conrad, Weller, 6002.
- burlingtonensis*, Whitfield, 6098.
- clarkensis* n. sp., Miller and Gurley, 3997c.
- greenii* n. sp., Miller, 3995.
- spinosulus* n. sp., Miller and Gurley, 3997c.
- subangularis* Hall, Weller, 6002.
- Ichthyodectes anaides* Cope, Crook, 1147.
- cruentus* n. sp., Hay, 2380.
- polymicrodus* Cope, Crook, 1148.
- Ichthyodorulite*, Case, 766.
- Ichthyorachis*, Simpson, 4983.
- Ichthyornis dispar* Marsh, Williston, 6245.
- Ichtyosaurus*, Case, 1100.
- Ictops bullatus* n. sp., Matthew, 3804.
- Idiocrinus elongatus* W. and Sp. n. gen. et sp., Wachsmuth and Springer, 5765.
- ventricosus* W. and Sp. n. sp., Wachsmuth and Springer, 5765.
- Idiotrypa*, Simpson, 4983.
- Idonearea* (?) *depressa* White, Herrick and Johnson, 2465.
- Igoceras* Hall, Keyes, 3062.
- capulus* Hall, Keyes, 3062.
- fissurella* (Hall), Keyes, 3062.
- pabulocrinus* (Owen), Keyes, 3062.
- pyramidatum* (Hall), Keyes, 3062.
- quincyense* (McChesney), Keyes, 3062.
- Iguanavus teres* n. sp., Marsh, 3672.
- Iguanodon*, Case, 768.
- Ilex* ? *affinis* (?) Lx., Hollick, 2708.
- armata* n. sp., Lesquereux, 3470.
- borealis* Heer, Lesquereux, 3470.
- dakotensis* n. sp., Lesquereux, 3470.
- (?) *elongata* n. sp., Newberry, 4080.
- masoni* n. sp., Lesquereux, 3470.
- (?) *ovata* n. sp., Newberry, 4080.
- papillosa* n. sp., Lesquereux, 3470.
- rigida* n. sp., Kirchner, 3187.
- scudderi* n. sp., Lesquereux, 3470.
- sp., Hollick, 2708.
- Ilionia galtensis* Whiteaves, Whiteaves, 6080.
- Illæus aboyensis* n. sp., Whiteaves, 6080.
- (?) *ambiguus*, Foreste, 1835.
- americanus* Billings 1859, Clarke, 952.
- danielsi* n. sp., Miller and Gurley, 3997a.
- cf. *indeterminatus* Walcott, Clarke, 952.
- insignis*, Foerste, 1835.
- insignis* ? Hall, Keyes, 3061.
- madisonianus*, Foerste, 1835.
- taurus*, Whitfield, 6102.
- Ilyanassa granifera* Conrad, Dall, 1259.
- irrorata* Conrad, Dall, 1259.

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- Ilyanassa isogramma* n. sp., Dall, 1259.
- (*porcina* var.?) *schizopyga*, Dall, 1259.
- porcina* Say, Dall, 1259.
- (*Paranassa*) *arata* Say, Dall, 1259.
- Ilyocypris oblonga* n. sp., Jones, T. R., 2935.
- Ilyodes* (?) *attenuatus* n. sp., Matthew, G. F., 3759.
- Incolaria securiformis* n. gen. et sp., Herzer, 2500.
- Indianocrinus* n. gen., Miller and Gurley, 3998.
- punctatus* n. sp., Miller and Gurley, 3998.
- Indrodon malaris* Cope, Osborn and Earle, 4191.
- Ingra cretacea* n. sp., Lesquereux, 3470.
- Inocaulis*, James, 2881.
- canadensis* n. sp., Whiteaves, 6087.
- Inoceramus acuteplicatus* n. sp., Stanton, 5206.
- altus* Meek, Logan, 3554.
- barabini* Mort., Harris, 2315.
- brownii* Cragin, Logan, 3554.
- comancheana* n. sp., Cragin, 1118.
- comancheana*, Stanton, 5197.
- concentricus* n. sp., Logan, 3554.
- crihsii* var. *barabina* Morton, Logan, 3554.
- cumminsi* n. sp., Cragin, 1118.
- deformis* Meek, Herrick and Johnson, 2465.
- deformis* Meek, Logan, 3554.
- deformis* Meek, Stanton, 5191.
- digitatus* (Sowerby), Schmidt, Whiteaves, 6085.
- dimidius* White, Logan, 3554.
- dimidius* White, Stanton, 5191.
- exogyroides* M. and H., Logan, 3554.
- exogyroides* M. and H., Stanton, 5191.
- flaccidus* White, Logan, 3554.
- flaccidus* White, Stanton, 5191.
- fragilis* H. and M., Herrick and Johnson, 2465.
- fragilis* M. and H., Logan, 3554.
- fragilis* H. and M., Stanton, 5191.
- gilberti* White, Herrick and Johnson, 2465.
- gilbertii* White, Logan, 3554.
- gilberti* White, Stanton, 5191.
- incurvus* M. and H., Logan, 3554.
- labiatus* Schloth, Herrick and Johnson, 2465.
- labiatus* Schlotheim, Logan, 3554.
- labiatus* Schlotheim, Stanton, 5191.
- multistriatus* n. sp., Cragin, 1115.
- munsoni* n. sp., Cragin, 1118.
- ovatus* n. sp., Stanton, 5199.
- pennatus* n. sp., Logan, 3554.
- platinus* n. sp., Logan, 3554.
- sagensis* var. *nebrascensis* Owen, Logan, 3554.
- simpsonii* Meek, Logan, 3554.
- simpsoni* Meek, Stanton, 5191.
- subconvexus* n. sp., Logan, 3554.
- subtriangulatus* n. sp., Logan, 3554.
- subundatus* Meek, Whiteaves, 6084.
- tenuirostratus* M. and H., Logan, 3554.
- tenuirostratus* M. and H., Stanton, 5191.
- truncatus* n. sp., Logan, 3554.
- umbonatus* M. and H., Logan, 3554.

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- Inoceramus umbonatus* M. and H., Stanton, 5191.
undabundus M. and H., Logan, 3554.
undabundus M. and H., Stanton, 5191.
vancouverensis Shumard, Whiteaves, 6084.
 sp., Herrick and Johnson, 2465.
 sp. ?, Whiteaves, 6084.
- Intrapora*, Simpson, 4983.
- Iphidea* Billings, Hall and Clarke, 2260.
- Iphidea*, Walcott, 5808.
alabamaensis n. sp., Walcott, 5808.
bella Billings (?), Grabau, 2092.
crenistrina n. sp., Walcott, 5808.
logani n. sp., Walcott, 5808.
pealei n. sp., Walcott, 5808.
sculptis Meek, Walcott, 5816.
superba n. sp., Walcott, 5808.
 sp. undet., Walcott, 5816.
- Iris* sp. ?, Newberry, 4083.
- Irites alaskana* Lesquereux, Knowlton, 3232.
- Ischadites* Murchison emende Hinde, Winchell and Schuchert, 6318.
iowensis Owen, sp., Winchell and Schuchert, 6318.
- Ischnochiton tampensis* n. sp., Dall, 1259.
- Ischyrhiza* (?) *radiata* Clark, Clark, 904, 906.
- Ischyrodonta* Ulrich, Ulrich, 5535.
decipiens n. sp., Ulrich, 5535.
elongata, Ulrich, 5535.
miseneri n. sp., Ulrich, 5535.
modioliformis n. sp., Ulrich, 5535.
ovalis n. sp., Ulrich, 5534, 5535.
truncata, Ulrich, 5535.
unionoides, Ulrich, 5535.
- Ismenia* King, Hall and Clarke, 2264.
- Isocardia carolina* n. sp., Dall, 1281.
floridana n. sp., Dall, 1281.
fraterna, Say, 4813.
fraterna Say, Dall, 1281.
humana Linné, Dall, 1281.
humilis n. sp., Cragin, 1115.
markœi Conrad, Dall, 1281.
mediavia n. sp., Harris, 2310.
tennidens Whitfield, Dall, 1265.
- Isophilina* Jones, Grabau, 2086.
fabacea Jones, Grabau, 2086.
- Isodectes punctulatus* Cope, Cope, 1103.
- Isopholis*, Hay, 2381.
- Isotelus canalis* Whitfield sp., Clarke, 952.
gigas De Kay, 1824, Clarke, 952.
maximus Locke, 1838, Clarke, 952.
susæ Whitfield, 1882, Clarke, 952.
- Isothea* n. gen., Scudder, 4890.
alleni, Scudder, 4890.
- Isotrypa*, Simpson, 4983.
 sp. indet., Clarke, 971.
- Janassa gurtleyana* Cope, Case, 773.
strigilina Cope, Case, 773.
- Jonesella* Ulrich, Ulrich, 5540.
obscura n. sp., Ulrich, 5540.
- Juglandites ellsworthianus* n. sp., Lesquereux, 3470.
fallax n. sp., Dawson, 1436.
lacoëi n. sp., Lesquereux, 3470.
primordialis n. sp., Lesquereux, 3470.

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- Juglandites sinuatus* n. sp., Lesquereux, 3470.
- Juglans affinis* n. sp., Kirchner, 3187.
arctica Heer (?), Hollick, 2696.
arctica Heer, Lesquereux, 3470.
arctica Heer (?), Newberry, 4080.
crassipes Heer, Lesquereux, 3470.
crescentia n. sp., Knowlton, 3255.
crossii Knowlton, Kirchner, 3187.
debeyana (Heer) Lesq., Lesquereux, 3472.
hesperia n. sp., Knowlton, 3246.
laurifolia n. sp., Knowlton, 3255.
 ? *missouriensis* n. sp., Knowlton, 3264.
nigella Heer, Newberry, 4083.
occidentalis Newb., Newberry, 4083.
rugosa Lx., Hollick, 2708.
schimperi Lx., Hollick, 2708.
townsendi n. sp., Knowlton, 3232.
 sp., Knowlton, 3262.
- Julia* Gould, Dall, 1272.
floridana n. sp., Dall, 1272.
- Juniperus macilenta* Heer, Newberry, 4080.
- Juvavella* Bittner, Hall and Clarke, 2264.
- Karpinskia* Tschernyschew, Hall and Clarke, 2261, 2264.
- Kayserella* n. gen., Hall and Clarke, 2260.
- Kayseria* Davidson, Hall and Clarke, 2261, 2264.
- Kellostoma mediavia* n. sp., Harris, 2310.
- Kellia* Turton, Dall, 1281.
prima n. sp., Aldrich, 74.
prima Ald., Harris, 2313, 2315.
suborbicularis Montagu, Dall, 1281.
 sp. indet., Dall, 1281.
- Kelliella* Sars., Dall, 1281.
- Keristella* cf. *haskinsi* Hall, Girty, 2035.
- Keyserlingia* Pander, Hall and Clarke, 2260.
- Kingena* Davidson, Hall and Clarke, 2264.
- Kionelasma* n. gen., Simpson, 4984.
- Kirkbya cymbula* n. sp., Ulrich, 5543.
germana n. sp., Ulrich, 5543.
- Kokenia* n. gen., Ulrich and Scofield, 5541.
costalis n. sp., Ulrich and Scofield, 5541.
- Koninckella* Munier-Chalmas, Hall and Clarke, 2264.
- Koninckina* Suess, Hall and Clarke, 2264.
- Koninckioceras*, Hyatt, 2816.
- Koninckodonta* Bittner, Hall and Clarke, 2264.
- Krausella* n. gen., Ulrich, 5540.
arcuata n. sp., Ulrich, 5540.
inaequalis n. sp., Ulrich, 5540.
- Kraussina* Davidson, Hall and Clarke, 2264.
- Kutorgina* Billings, Hall and Clarke, 2260.
- Kutorgina* Billings, Matthew, 3790.
granulata, Matthew, 3790.
- Laasbium agassizii* n. sp., Scudder, 4900.
sectile n. sp., Scudder, 4900.
- Labechua huronensis* Billings sp., Lambe, 3377.
- Labiosa* (Ræta) Gray, Dall, 1272.
alta Conrad, Dall, 1272.
canaliculata Say, Dall, 1272.
 (Ræta) Dall, 1272.
 (Schmidt) Moller, Dall, 1272.
- Laccophyllum* n. gen., Simpson, 4984.

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Genera and species described—Continued.

- Laccophyllum acuminatum* n. sp., Simpson, 4984.
Laccopteris lanceolata (Göpp) Presl. n. comb. ? , Ward, 5857.
Laccopygus n. gen., Scudder, 4890.
 nilesii, Scudder, 4890.
Lacertilia, Cope, 1081.
Lachnopus humatus, Scudder, 4890.
 recuperatus, Scudder, 4890.
Laelaps incrassatus Cope, 1083.
 incrassatus, Hay, 2384.
Lagena aspera Reuss, Woodward and Thomas, 6433.
 crenata Parker and Jones, Chapman, 870.
 favosa-punctata Brady, Woodward and Thomas, 6433.
 globosa (Montagu) Bagge, 148, 150.
 hispidula Reuss, Woodward and Thomas, 6433.
 sulcata (Walker and Jacob), Chapman, 870.
Lagomys palatinus Cope, 1104.
Lambdotherium Cope, Osborn, 4194.
 popoagicum Cope, Osborn, 4193a, 4194.
Lamna appendiculata, Williston, 6259.
 macrorrhiza, Williston, 6259.
 mudgei, Williston, 6259.
 (?) *obliqua* Agassiz, Clark, 906.
 (?) *quinquelateralis* n. sp., Cragin, 1119.
 quinquelateralis, Williston, 6259.
 sulcata, Williston, 6259.
 (*Odontaspis*?) sp., Williston, 6259.
Lampteroecrinus Roemer, Weller, 6002.
 (?) *dubius* n. sp., Weller, 6002.
 inflatus Hall, Weller, 6002.
 robustus n. sp., Weller, 6002.
 (?) *subglobosus* n. sp., Weller, 6002.
Laosaurus, Marsh, 3701.
Laotira n. gen., Walcott, 5805, 5811.
 cambria n. sp., Walcott, 5805, 5811.
Laphmina Ehlert, Hall and Clarke, 2260.
Lapparia Conrad, Dall, 1259.
 dumosa Con. var., Harris, 2316.
Laqueus Dall, Hall and Clarke, 2264.
Laricopsis longifolia Font., Fontaine, 1846, 1847.
Lariosaurus, Case, 768.
Larix americana, Penhallow, 4336.
 churchbridgensis, Penhallow, 4330.
Larus californicus?, Shufeldt, 4960.
 oregonus n. sp., Shufeldt, 4960.
 philadelphia, Shufeldt, 4960.
 robustus n. sp., Shufeldt, 4960.
Lasea Leach, Dall, 1281.
 rubra (Montagu) Brown, Dall, 1281.
Lasiotrix Hinde, Dawson, 1452.
 curvicostata Hinde, Dawson, 1452.
 flabellata n. sp., Dawson, 1452.
Lastrea (*Goniopteris*) *fischeri* Heer, Knowlton, 3262.
 fischeri Heer?, Newberry, 4083.
Lathrobium interglaciale, Scudder, 4896.
Latiara Conrad, Whitfield, 6101.
Latirus alabamensis n. sp., Aldrich, 73.
 callimorphus n. sp., Dall, 1259.
 floridanus Heilprin, Dall, 1259.

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Genera and species described—Continued.

- Latirus* (*floripanus* var.?) *multilineatus*, Dall, 1259.
 hysipettus n. sp., Dall, 1259.
 imbricatus n. sp., Harris, 2311.
 indistinctus n. sp., Aldrich, 71.
 leensis n. sp., Harris, 2311.
 rugatus n. sp., Dall, 1259.
 singleyi n. sp., Harris, 2307.
 tessellatus n. sp., Dall, 1259.
 tortilis var. *nanafalvus* n. var., Harris, 2316.
Laurelia primæva n. sp., Lesquereux, 3470.
Laurinoxylon pulchrum n. sp., Knowlton, 3255.
Laurophyllum angustifolium n. sp., Newberry, 4080.
 ellsworthianum Lesq., Lesquereux, 3470.
 insigne n. sp., Dawson, 1436.
 lanceolatum n. sp., Newberry, 4080.
 minus n. sp., Newberry, 4080.
Laurus angusta Heer, Lesquereux, 3470.
 antecedens n. sp., Lesquereux, 3470.
 grandis Lx., Knowlton, 3255.
 hollæ Heer, Lesquereux, 3470.
 knowltoni n. sp., Lesquereux, 3470.
 montana n. sp., Knowlton, 3255.
 nebrascensis Lesq., Lesquereux, 3470.
 newberryana n. sp., Hollick, 2672.
 perdita n. sp., Knowlton, 3255.
 plutonia Heer, Hollick, 2698.
 plutonia? Heer, Lesquereux, 3472.
 plutonia Heer, Newberry, 4080.
 præstans Lx., Knowlton, 3264.
 primigenia Ung., Hollick, 2708.
 primigenia? Ung., Knowlton, 3255, 3264.
 princeps Heer, Knowlton, 3255.
 pseudo-carolinensis Lx., Knowlton, 3255.
 salicifolia, Knowlton, 3235.
 similis n. sp., Knowlton, 3262.
 (*Carites*) *microcarpa* n. sp., Lesquereux, 3470.
 plutonia Heer, Lesquereux, 3470.
 teliformis n. sp., Lesquereux, 3470.
 ? sp., Knowlton, 3264.
Laxispira imbricalis, Harris, 2315.
 lumbicalis, Whitfield, 6097.
Leala leidyi, Dawson, 1454.
Lebedictya n. gen., Hall and Clarke, 2269, 2270.
 crinita n. sp., Hall and Clarke, 2269, 2270.
Lecanocrinus Hall, Weller, 6002.
 greenei n. sp., Miller and Gurley, 3999.
 oswegoensis n. sp., Miller and Gurley, 3997b.
 tennesseensis n. sp., Miller, 3992.
 waukoma (Hall), Weller, 6002.
Lecythiocrinus olliculæformis White, Keyes, 3061.
Leda, Schumacher, Dall, 1272.
 acala n. sp., Dall, 1272.
 acrybia n. sp., Dall, 1272.
 acuta Conrad, Dall, 1272.
 alæformis (Gabb), Stanton, 5198.
 albirupina n. sp., Harris, 2305.
 aldrichiana Har. var., Harris, 2315.

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- Leda amydra* n. sp. (?), Dall, 1272.
bastropensis n. sp., Harris, 2307.
canonica n. sp. (*linifera* Conrad var.?),
 Dall, 1272.
catasarca n. sp., Dall, 1272.
concentrica Say, Dall, 1272.
corpulentoides Ald. var., Harris, 2313, 2315.
dabbi (Conrad), Stanton, 5198.
diversa, Hall and Clarke, 976.
dodona n. sp., Dall, 1272.
elongatoidea n. sp., Aldrich, 73.
elongatoidea, Harris, 2313.
elongatoidea var. (?), Harris, 2310.
flexuosa Heilprin, Dall, 1272.
glabba n. sp., Stanton, 5199.
(?) harveyi n. sp., Hill, 2539.
houstonia n. sp., Harris, 2307.
hypsona n. sp., Dall, 1272.
improcera (Conrad), Clark, 906.
lisbonensis n. sp., Aldrich, 73.
marieana n. sp., Aldrich, 74.
marieana, Harris, 2313.
milamensis, Harris, 2310.
multilincata Conrad, Dall, 1272.
parva (Rogers), Clark, 906.
parva, Harris, 2313.
phalacra n. sp. (?), Dall, 1272.
pharcida n. sp., Dall, 1272.
protexta (Conrad), Clark, 906.
protexta, Harris, 2313.
protexta Gabb, Dall, 1272.
quercollis n. sp., Harris, 2310.
regina-jacksonis n. sp., Harris, 2311.
robusta n. sp., Aldrich, 73.
saffordana n. sp., Harris, 2310.
semenoides n. sp., Aldrich, 73.
trochilia n. sp., Dall, 1272.
(Adrana) cultelliformis (Rogers), Clark,
 906.

Legumen planulatum Con., Harris, 2315.

Leguminosites atanensis Heer, Newberry,
 4080.

- constrictus* n. sp., Lesquereux, 3470.
convolutus n. sp., Lesquereux, 3470.
coronilloides (?) Heer, Lesquereux, 3470.
coronilloides Heer, Newberry, 4080.
dakotensis n. sp., Lesquereux, 3470.
hymenophyllus n. sp., Lesquereux, 3470.
insularis Heer, Lesquereux, 3470.
lamarensis n. sp., Knowlton, 3255.
lesquere xiana Kn., Knowlton, 3255.
marcouanus Heer, Newberry, 4083.
omphalobioides n. sp., Lesquereux, 3470.
omphalobioides Lesq., Newberry, 4080.
phaseolites (Heer), Lesquereux, 3470.
podogonialis n. sp., Lesquereux, 3470.
truncatus n. sp., Lesquereux, 3470.

Leiocidaris hemigranosa Shumard, Cragin,
 1115.

hemigranosus Shumard, Clark, 892.

Leiopteria Hall, Grabau, 2086.

conradi Hall, Grabau, 2086.

rafinesquii Hall, Grabau, 2086.

spinalata (Win.), Weller, 6006.

torreyi ? Hall, Lane, 3400.

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- Leiorhynchus* Hall, Grabau, 2086.
dubium Hall, Grabau, 2086.
limitare (Vanuxem), Grabau, 2086.
limitaris, Whitfield, 6099.
multicostus Hall, Grabau, 2086.
quadriconstatum (Vanuxem), Grabau, 2086.
quadriconstatum Vanuxem, Girty, 2035.
Leiotoma (?) *ludoviciana* n. sp., Harris, 2315.
Leiostraca cretacea, Whitfield, 6097.
Leiotrochus Conrad, Whitfield, 6101.
Lepacyclotes circularis Emmons, Ward, 5857.
ellipticus Emmons, Ward, 5857.
Lepeditella n. gen., Ulrich, 5540.
canalis n. sp., Ulrich, 5540.
(?) dorsicornis Ulrich, Ulrich, 5540.
germana Ulrich, Ulrich, 5540.
macra n. sp., Ulrich, 5540.
persimilis n. sp., Ulrich, 5540.
Lepeditia Ronault, Grabau, 2086, 2092.
Lepeditia, Ulrich, 5540.
aquilatera n. sp., Ulrich, 5532.
alia, Whitfield, 6099.
anguilifera, Whitfield, 6099.
fabulites Conrad, Ulrich, 5540.
fimbriata n. sp., Ulrich, 5532.
germana n. sp., Ulrich, 5532.
granilabiata n. sp., 5532.
hudsonica Hall, Grabau, 2086.
inflata n. sp., Ulrich, 5532.
millepunctata n. sp., Ulrich, 5532.
? minor n. sp., Matthew, 3761.
mundula n. sp., Ulrich, 5532.
okeni Dawson, 1454.
? primæva n. sp., Matthew, 3761.
(? primitia) dorsicornis n. sp., Ulrich, 5532.
cf. l. solitaria Barrard, Burr, 666.
? stædi, Matthew, 3761.
sublaevis (Shumard), Keyes, 3061.
sulcata n. sp. and *ventricornis* n. var.,
 Ulrich, 5532.
tumida n. sp., Ulrich, 5532.
? ventricosa, Matthew, 3761.
Lepidochinus imbricatus Hall, Keyes, 3077.
rarispinus, Jackson, 2871.
rarispinus Hall, Keyes, 3077.
squamosus (Meek and Worthen), Keyes,
 3077.
Lepidendron, McCalley, 3815.
Lepidesthes colletti, Jackson, 2871.
colletti White, Keyes, 3077.
coreyi, Jackson, 2871.
coreyi Meek and Worthen, Keyes, 3077.
formosus, Jackson, 2871.
wortheni n. sp., Jackson, 2871.
Lepidesthidae n. fam., Jackson, 2871.
Lepiditta alata, Matthew, 3770.
auriculata n. sp., Matthew, 3751, 3770.
curta, Matthew, 3770.
sigillata n. sp., Matthew, 3751, 3761.
Lepidocentrus mulleri Schultze, Jackson, 2871.
Lepidocidaris squamosus, Jackson, 2871.
Lepidocoleus jamesi, Clarke, 951.
polypetalus n. sp., Clarke, 951.
sarlei n. sp., Clarke, 951.
Lepidocystis vesicularis Lx., White, 6049.

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- Lepidodendron, Dawson, 1455.
 Lepidodendron Sternberg, White, 6050.
 alabamense n. sp., White, 6052.
 brittsii Lx., White, 6050.
 choctawense n. sp., White, 6049.
 clypeatum Lx., White, 6050, 6052.
 cyclostigma Lx., White, 6046.
 lanceolatum Lx., White, 6050.
 modulatum Lx., White, 6049.
 rimosum var. recorticaum n. var., White, 6050.
 scutatum Lx., White, 6050.
 sp., Herrick and Johnson, 2465.
 Lepidolites Ulrich, Winchell and Schuchert, 6318.
 Lepidophloios, Dawson, 1455.
 Lepidophloios Sternberg, White, 6050.
 acadianus Dawson, Dawson, 1455.
 cliftonensis Dawson, 1455, 1456.
 van ingeni n. sp., White, 6050.
 (?) cf. van ingeni, White, 6050.
 Lepidophyllum brevifolium Lx., White, 6049.
 jenneyi n. sp., White, 6050.
 lanceolatum L. and H., White, 6049.
 cf. mansfieldi Lx., White, 6049.
 missouriense n. sp., White, 6050.
 quinnimontanum n. sp., White, 6052.
 truncatum Lx., White, 6049.
 Lepidostrobos princeps Lx., White, 6050.
 Lepidoxylon anomalum Lx., White, 6050.
 Lepidurus productus, Beecher, 366.
 Lepodosteus atrox Leidy, Eastman, 1606, 1610.
 simplex Leidy, Eastman, 1606.
 Leptacinus? exsuscidus n. sp., Scudder, 4900.
 fossus n. sp., Scudder, 4900.
 leidyi n. sp., Scudder, 4900.
 maclurei n. sp., Scudder, 4900.
 rigatus n. sp., Scudder, 4900.
 Leptæna Dalman, Hall and Clarke, 2260.
 Leptæna Dalman, Winchell and Schuchert, 6319.
 charlottæ, Winchell and Schuchert, 6298, 6319.
 rhomboidalis, Foerste, 1835.
 rhomboidalis Wilkens, Clarke, 971.
 rhomboidalis Wilkens, Girty, 2037, 2038.
 sericea, Sowerby, Keyes, 3062.
 unicostata Meek and Worthen, sp., Winchell and Schuchert, 6319.
 Leptenisca Beecher, Hall and Clarke, 2266.
 adnascens n. sp., Hall and Clarke, 2260, 2268.
 tangens n. sp., Hall and Clarke, 2260, 2268.
 Leptarcus primus Leidy, Wortman, 6485.
 Leptecodon rectus n. gen. et sp., Williston, 6253.
 Leptella n. gen., Hall and Clarke, 2260.
 Leptichthys n. gen., Stewart, 5245.
 agilis n. sp., Stewart, 5245.
 Leptobolus Hall, Hall and Clarke, 2260.
 grandis n. sp., Matthew, 3751.
 Leptobranchites gigantea Haeckel, Walcott, 5811.
 trigonobranchius Haeckel, Walcott, 5811.
 Leptochoerus gracilis n. sp., Marsh, 3690.

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Genera and species described—Continued.

- Leptocœlia Hall, Hall and Clarke, 2261.
 flabellites Conrad, Clarke, 971.
 Leptodesma, Clarke, 941.
 Leptodora hyalina, Beecher, 366.
 Leptograptus macrotheca n. sp., Gurley, 2217.
 Leptomaria gigantea n. sp., Whitfield, 6097.
 pergranulosa n. sp., Whitfield, 6097.
 perlata, Whitfield, 6097.
 Leptomeryx Leidy, Scott, 4884.
 Leptomeryx, Scott, 4865.
 mammifer Cope, Ami, 84.
 Leptomitus zitteli Walcott, Rauff, 4548.
 Lepton Turton, Dall, 1281.
 (?) alabamensis n. sp., Aldrich, 74.
 Leptophractus, Case, 767.
 Leptophyllia agassizi n. sp., Vaughan, 5734.
 Leptoplastus spinosus n. sp., Matthew, 3751.
 Leptopora gorbyi n. sp., Miller, 3992.
 Leptopoterion, James, 2881.
 Leptoreodon Wortman, Scott, 4884.
 marshi n. gen. et sp., Wortman, 6493.
 Leptosolen otternsis n. sp., Cragin, 1116.
 Leptostrobos (?) alatus Ward n. sp., Fontaine, 1850.
 longifolius, Dawson, 1434.
 longifolius Fontaine, Fontaine, 1850.
 ? sp. Fontaine, Ward, 5857.
 Leptostrophia magnifica Hall, Clarke, 971.
 oriskania, n. sp., Clarke, 971.
 Leptostyrax n. gen., Williston, 6259.
 Leptotragulus Scott and Osborn, Scott, 4883, 4884.
 Leptotrypa, Simpson, 4983.
 Leptotrypa Ulrich, Ulrich, 5537.
 acervulosa n. sp., Ulrich, 5537.
 claviformis n. sp., Ulrich, 5537.
 hexagonalis Ulrich, 5537.
 informis n. sp., Ulrich, 5537.
 Lepus sylvaticus Bachm., Cope, 1104.
 Lernædiscus porcellanæ, Beecher, 366.
 Leuciscus turneri n. sp., Lucas, 3589.
 Leucozoni bicipitata, Harris, 2310.
 Leuroceras, Hyatt, 2816.
 Levibuccinum lineatum Con., Harris, 2310, 2316.
 Levifusus branneri n. sp., Harris, 2305, 2311.
 dolei n. sp., Harris, 2310.
 hubbardi n. sp., Harris, 2310.
 indentus n. sp., Harris, 2315, 2316.
 pagoda, Aldrich, 74.
 pagoda var., Harris, 2310.
 pagoda Heilp., Harris, 2315, 2316.
 supraplanus n. sp., Harris, 2315, 2316.
 suteri n. sp., Aldrich, 73.
 suteri, Harris, 2310.
 trabeatoides n. sp., Harris, 2307.
 trabeatus Con., Aldrich, 73.
 trabeatus Con., Harris, 2311, 2316.
 trabeatus Con. var.?, Harris, 2315.
 trabeatus var., Harris, 2310.
 Lichas bicornis n. sp., Ulrich, 5933.
 breviceps Foerste, 1835.
 byrnesanus n. sp., Miller and Gurley, 3997a.
 hanoverensis n. sp., Miller and Gurley, 3997a.

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- Lichas* cf. *pustulosus* Hall, Clarke, 971.
(Hopolichas) *robbinsi* n. sp., Ulrich, 5933.
(Terataspis) n. sp., Whiteaves, 6074.
(Terataspis) *grandis* Hall, Whitfield, 6105.
Lichenalia Hall, Grabau, 2086.
Lichenalia Simpson, 4983.
 cf. *crassa* Hall, Clarke, 971.
stellata Hall, Grabau, 2086.
Lichenaria minor n. sp. (Ulrich), Winchell and Schuchert, 6318.
 type n. gen. et sp., Winchell and Schuchert, 6318.
 type W. and S., Sardeson, 4810.
Lima (Bruguière) Cuvier, Dall, 1272.
generosa n. sp., Cragin, 1115.
lata?, n. sp., Logan, 3559.
multilineata n. sp., Stanton, 5199.
multiradiata Gabb, Stanton, 5197.
ozarkana n. sp., Harris, 2313.
pelagica Mort., Harris, 2315.
retifera Shumard, Keyes, 3062.
semilævis n. sp., Cragin, 1115.
utahensis, Stanton, Herrick and Johnson, 2465.
utahensis n. sp., Stanton, 5191.
(Ctenoides) *scabra* Born, Dall, 1272.
 tenera Sowerby, Dall, 1272.
(Lima) *caloosana* n. sp., Dall, 1272.
smirna n. sp., Dall, 1272.
vicksburgiana n. sp., Dall, 1272.
tampaensis n. sp., Dall, 1272.
 var. *costulata* n. sp., Dall, 1272.
(Man lum) *caloosana* n. sp., Dall, 1272.
carolinensis n. sp., Dall, 1272.
Limæa *solida* n. sp., Dall, 1272.
Limalophus n. gen., Scudder, 4890.
compositus, Scudder, 4890.
contractus, Scudder, 4890.
Limnaea *desidiosa* Say, Baker, 217.
Limnæa *hermanni*, Beecher, 366.
Limnaea *contracta*, n. sp., Cooper, 1071.
nitidula Meek, White, 6036.
Limnocema n. gen., Scudder, 4894.
lutescens, Scudder, 4894.
marcescens, Scudder, 4894.
mortoni, Scudder, 4894.
styx, Scudder, 4894.
Limnocyon *riparius*, Marsh, 3719.
Limnohyops *fontinalis*, Earle, 1590.
laticeps, Earle, 1590.
Limnophila *rogersii*, Scudder, 4894.
ruinarum, Scudder, 4894.
strigosa, Scudder, 4894.
vasta, Scudder, 4894.
Limnopus *vagus* n. gen. et sp., Marsh, 3686.
Limoni *impunctus*, Scudder, 4896.
Limopsis *Sassi*, Dall, 1272.
subangularis n. sp., Guppy and Dall, 2214.
subimbricatus n. sp., Cragin, 1116.
Limulus *polyphemus*, Beecher, 366.
polyphemus, Packard, 4230.
Lindera *masoni* n. sp., Lesquereux, 3470.
venusta n. sp., Lesquereux, 3470.
Lindstromella n. subgen., Hall and Clarke, 2260.

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- Lindstromella* *aspidium* n. gen. et sp., Hall and Clarke, 2260.
aspidium, Hall and Clarke, 2268.
Linearia *metastriata*, Harris, 2315.
Lingula *Bruguière*, Grabau, 2086.
Lingula *Bruguière*, Hall and Clarke, 2260.
Lingula *Bruguière*, Winchell and Schuchert, 6319.
compta, Hall and Clarke, 2268.
antiqua, James, 2893.
beltrami n. sp., Winchell and Schuchert, 6319.
 cf. *billingsiana* Whiteaves, Matthew, 3751.
canadensis Billings?, Winchell and Schuchert, 6319.
clathrata n. sp., Winchell and Schuchert, 6319.
cobourgensis Billings?, Winchell and Schuchert, 6319.
compta n. sp., Hall and Clarke, 2260.
delia Hall, Grabau, 2086.
elderi Whitfield, Winchell and Schuchert, 6319.
elongata Hall, Whiteaves, 6087.
eva Billings, Winchell and Schuchert, 6319.
flabellula n. sp., Hall and Clarke, 2260.
gorbyi n. sp., Miller, 3995.
howleyi n. sp., Matthew, 3767.
indianensis n. sp., Miller and Gurley, 3997a.
 cf. *iole* Billings, Cleland, 1012.
iowensis Owen, Whiteaves, 6087.
iowensis Owen, Winchell and Schuchert, 6319.
ligea (?), Whitfield, 6099.
lingulata n. sp., Hall and Clarke, 2260.
lingulata, Hall and Clarke, 2268.
manni, Whitfield, 6099.
membranacea Win., Weller, 6006.
modesta Ulrich, Winchell and Schuchert, 6319.
mytiloides Sowerby?, Girty, 2037.
 cf., *oblata*, Hall and Clarke, 976.
obtusa Hall, Whiteaves, 6087.
paracletus n. sp., Hall and Clarke, 2260, 2268.
parrishi n. sp., Miller, 3995.
philomela Billings, Winchell and Schuchert, 6319.
 cf. *rectilatera* Hall, Clarke, 971.
riciniformis Hall, Winchell and Schuchert, 6319.
 var. *galensis* W. and S., Winchell and Schuchert, 6298, 6319.
scutella n. sp., Hall and Clarke, 2260, 2268.
sedaliensis n. sp., Miller, 3995.
shumardi n. sp., Cragin, 1115.
spatulata Vanuxem, Grabau, 2086.
teniola, Hall and Clarke, 2268.
umbonata Cox, Keyes, 3062.
vanhornii, Miller, 3995.
(Glossini) *deflecta*, Winchell and Schuchert, 6298.
(Glossina) *flabellula*, Hall and Clarke, 2268.

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- Lingula* (*Glossina*) *hurlburti* N. H. Winchell, Winchell and Schuchert, 6319.
deflecta W. and S., Winchell and Schuchert, 6319.
 (*Glossina*) *leana* Hall, Grabau, 2086.
 (*Lingulipora*) *williamsana* n. sp., Girty, 2035.
Lingulasma Ulrich, Hall and Clarke, 2260.
Lingulasma Ulrich, Winchell, and Schuchert, 6319.
galensis, Winchell and Schuchert, 6298, 6319.
Lingulella Salter, Hall and Clarke, 2260.
cuneata n. sp., Matthew, 3751.
 (?) *inflata*, Matthew, 3761.
 var. ovalis n. var., Matthew, 3761.
lamborni Meek, Keyes, 3662.
martinensis, Matthew, 3761.
cf. granvillensis Walcott, Matthew, 3761.
roberti n. sp., Matthew, 3767.
rogersi Walcott, Grabau, 2092.
selwyni n. sp., Matthew, 3767.
 subgenus of *Obolus*, Walcott, 5813.
Lingulepis Hall, Hall and Clarke, 2260.
acuminata Conrad, Matthew, 3767.
meeki n. sp., Walcott, 5807.
Lingulina *carinata* d'Orbigny, Bagge, 150.
Lingulipora n. subgen., Girty, 2035.
Lingulobolus n. gen., Matthew, 3767.
 affinis (Billings), Grabau, 2092.
 affinis, Bill. sp., Matthew, 3767.
 var. cuneata, Matthew, 3767.
Lingulops Hall, Hall and Clarke, 2260.
derbyi, n. sp., Clarke, 976.
granti, n. sp., Hall and Clarke, 2260, 2268.
Linnarssonina Walcott, Hall and Clarke, 2260.
 belti Dav. *mut. magna* n. mut., Matthew, 3776.
 transvera Hartt, Matthew, 3761.
Linthia *tumidula* Clark, Clark, 892.
Linuparus A. White, Woodward, 6442.
 atavus n. sp., Ortmann, 4156.
 vancouverensis Whiteaves sp., Woodward, 6442.
 (*Podarates*) *vancouverensis* Whiteaves sp., Woodward, 6442.
 canadensis Whiteaves sp., Woodward, 6442.
Liochlamys *bulbosa* Heilprin, Dall, 1259.
Liopeplum Dall, Dall, 1259.
 spillmani Dall, Dall, 1259.
 subjugosum Dall, Dall, 1259.
Lipistha *concentrica* Stanton, Herrick and Johnson, 2465.
 (*Psilomya*) *concentrica* n. sp., Stanton, 5191.
 elongata Stanton, Herrick and Johnson, 2465.
 elongata, n. sp., Stanton, 5191.
 meeki White, Herrick and Johnson, 2465.
 meeki White, Stanton, 5191.
Lioplacodes *veternus* Meek, Logan, 3559.
Lioplax *floridana* n. sp., Dall, 1269.
 ? *endlichi* White, White, 6036.

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Genera and species described—Continued.

- Liopteria* *browni* n. sp., Clarke, 976.
 sawkinsi n. sp., Clarke, 976.
 speciosa n. sp., Miller and Gurley, 4002.
 subovata n. sp., Miller and Gurley, 4002.
Linopteris *gilkersonensis* n. sp., White, 6050.
Liorhynchus Hall, Hall and Clarke, 2261a.
 haguei n. sp., Girty, 2038.
 lesleyi n. sp., Hall and Clarke, 2261a, 2263, 2265.
 robustus, Hall and Clarke, 6268.
Liospira n. gen., Ulrich and Scofield, 5541.
 abrupta n. sp., Ulrich and Scofield, 5541.
 americana Billings, Ulrich and Scofield, 5541.
 angulata n. sp., Ulrich and Scofield, 5541.
 angustata n. sp., Ulrich and Scofield, 5541.
 decipiens n. sp., Ulrich and Scofield, 5541.
 micula Hall, Ulrich and Scofield, 5541.
 (?) *mundula* n. sp., Ulrich and Scofield, 5541.
 obtusa n. sp., Ulrich and Scofield, 5541.
 persimilis n. sp., Ulrich and Scofield, 5541.
 progne Billings, Ulrich and Scofield, 5541.
 rugata n. sp., Ulrich and Scofield, 5541.
 subconcaeva n. sp., Ulrich and Scofield, 5541.
 vitrovia Billings, Ulrich and Scofield, 5541.
Liostracus? *jerseyensis* n. sp., Weller, 6004.
 onangondianus, Beecher, 366.
 parvus n. sp., Walcott, 5816.
 validus n. sp., Matthew, 3776.
Liothyrida Oehlert, Hall and Clarke, 2264.
Liotia *granulata* Lea, Harris, 2316.
 veresimilis n. sp., Guppy and Dall, 2214.
 (*Arene*) *agenea* n. sp., Dall, 1259.
 coronata n. sp., Dall, 1259.
 melium n. sp., Dall, 1259.
 paramata n. sp., Dall, 1259.
 solariella Heilprin, Dall, 1259.
Liquidambar *europæum* Al. Br., Newberry, 4083.
 integrifolium Lesq., Lesquereux, 3478.
 obtusilobatus (Heer) Hollick, Newberry, 4083.
Liriodendron, Hollick, 2682.
Liriodendron, Holm, 2713.
Liriodendron *Linnaeus*, Newberry, 4080.
 acuminatum Lesq., Lesquereux, 3470.
 acuminatum *var. bilobatum* n. var., Lesquereux, 3470.
 alatum Newb., MSS., Hollick, Knowlton, 3264.
 giganteum Lesq., Lesquereux, 3470.
 var. cruciforme Lesq., Lesquereux, 3470.
 intermedium Lesq., Lesquereux, 3470.
 laramiense Ward, Knowlton, 3264.
 meekii (Heer), Newberry, 4083.
 obcordatum Lesq., Lesquereux, 3470.
 oblongifolium Newb., Newberry, 4080.
 pinnatifidum Lesq., Lesquereux, 3470.
 prætulipiferum n. sp., Dawson, 239.
 primævum Newb., Lesquereux, 3470.
 primævum Newb., Newberry, 4083.
 quercifolium Newb., Newberry, 4080.

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- Liriodendron semialatum* Lesq., Lesquereux, 3470.
snowii n. sp., Lesquereux, 3470.
succedens n. sp., Dawson, 1436.
wellingtonii n. sp., Lesquereux, 3470.
Liriodendropsis n. gen., Newberry, 4080.
angustifolia n. sp., Newberry, 4080.
simplex Newb., Newberry, 4080.
Liropecten estrellanus Conrad, Cooper, 1071.
Lispoceras, Hyatt, 2816.
rotundum n. sp., Hyatt, 2816.
trivolve n. sp., Hyatt, 2816.
Lispodesthes nuptialis White, Stanton, 5191.
Lissopleura n. gen., Whitfield, 6103.
Lithapium, Matthew, G. F., 3760.
Lithocharis scottii n. sp., Scudder, 4900.
Lithocoryne gravis n. sp., Scudder, 4900.
Lithodomus claibornensis Con., Aldrich, 73.
gainesensis n. sp., Harris, 2310.
Lithophaga Bolton, Dall, 1272.
antillarum d'Orbigny, Dall, 1272.
(?) batesvillensis n. sp., Weller, 5986.
nigra d'Orbigny, Dall, 1272.
nuda n. sp., Dall, 1272.
subalveata, Whitfield, 6101.
sp.?, Keyes, 3062.
(Diverus) bisulcata d'Orbigny, Dall, 1272.
(Myoforceps) aristata Dillwyn, Dall, 1272.
Lithophthorus n. gen., Scudder, 4890.
rugosicollis, Scudder, 4890.
Lithostrotion macounii n. sp., Lambe, 3375.
mamillare Castelnau, Keyes, 3061.
sp., Girty, 2038.
Litoceras biangulatum n. sp., Hyatt, 2819.
hercules, Hyatt, 2819.
insolens (?), Hyatt, 2819.
potosina n. sp., Aguilera, 57.
versutum Billings, Whiteaves, 6089.
whiteavesi, Hyatt, 2819.
Litsea cretacea n. sp., Lesquereux, 3470.
cuneata n. sp., Knowlton, 3255.
fulcifolia n. sp., Lesquereux, 3470.
Littorina subobesa n. sp., Cooper, 1072.
Lituites, Hyatt, 2819.
? complanatus Shumard, Keyes, 3062.
robertsoni, Whitfield, 6102.
undatus var. *occidentalis*, Whitfield, 6102.
Litsea weediana n. sp., Knowlton, 3222.
Lobocrinus W. and Sp. (nov. gen.), Wachsmuth and Springer, 5765a.
æquibrachiatus (McChesney), Wachsmuth and Springer, 5765a.
æquibrachiatus var. *asteriscus* (Meek and Worthen) Wachsmuth and Springer, 5765a.
? hageri (McChesney), Wachsmuth and Springer, 5765a.
inflatus (Rowley and Hare), Wachsmuth and Springer, 5765a.
longirostris (Hall), Wachsmuth and Springer, 5765a.
nashvillæ (Troost), Wachsmuth and Springer, 5765a.
nashvillæ var. *subtractus* (White), Wachsmuth and Springer, 5765a.
pyriformis (Shum.), Wachsmuth and Springer, 5765a.

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- Lobocrinus robustus* W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
spiniferus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
yandelli (Shumard), Wachsmuth and Springer, 5765a.
Loculipora Hall, Grabau, 2086.
Loculipora Simpson, 4983.
perforata Hall, Grabau, 2086.
Lomatia suportanea Lesq., Lesquereux, 3470.
Lonchocarpus novæ-cæsaræ n. sp., Hollick, 2686.
Lonchopteris oblonga (Emmons) Fontaine, Ward, 5857.
Lonsdaleia pictoense Billings sp., Lambe, 3375.
Lophiodon Cuvier, Osborn and Wortman, 4192.
Lopholusma, n. gen., Simpson, 4934.
Lophophyllum proliferum (McChesney), Keyes, 3061.
Lophospira Whitfield, Ulrich and Scofield, 5541.
abnormis n. sp., Ulrich and Scofield, 5541.
acuminata n. sp., Ulrich and Scofield, 5541.
ampla n. sp., Ulrich and Scofield, 5541.
angustina Billings, Ulrich and Scofield, 5541.
var. minnesotensis n. var., Ulrich and Scofield, 5541.
bicincta Hall, Ulrich and Scofield, 5541.
bowdeni Safford, Ulrich and Scofield, 5541.
centralis n. sp., Ulrich and Scofield, 5541.
concinnulla n. sp., Ulrich and Scofield, 5541.
conoidea n. sp., Ulrich and Scofield, 5541.
conradana n. sp., Ulrich and Scofield, 5541.
decursa n. sp., Ulrich and Scofield, 5541.
elevata n. sp., Ulrich and Scofield, 5541.
filmorensis n. sp., Ulrich and Scofield, 5541.
heliciteres var. *wisconsinensis* n. var., Ulrich and Scofield, 5541.
humilis n. sp., Ulrich and Scofield, 5541.
medialis n. sp., Ulrich and Scofield, 5541.
var. burginensis n. var., Ulrich and Scofield, 5541.
multigruma Miller, Ulrich and Scofield, 5541.
obliqua n. sp., Ulrich and Scofield, 5541.
oweni n. sp., Ulrich and Scofield, 5541.
peracuta n. sp., Ulrich and Scofield, 5541.
perangulata Hall, Ulrich and Scofield, 5541.
perforata n. sp., Ulrich and Scofield, 5541.
perlamellosa n. sp., Ulrich and Scofield, 5541.
procera n. sp., Ulrich and Scofield, 5541.
producta n. sp., Ulrich and Scofield, 5541.
pulchella n. sp., Ulrich and Scofield, 5541.
quadrisculcata n. sp., Ulrich and Scofield, 5541.
saffordi n. sp., Ulrich and Scofield, 5541.
serrulata Salter, Ulrich and Scofield, 5541.
spironema n. sp., Ulrich and Scofield, 5541.

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Genera and species described—Continued.

- Lophospira sumnerensis Safford, Ulrich and Scofield, 5541.
 tenuistriata n. sp., Ulrich and Scofield 5541.
 (?) Seelya (?) knoxvillensis n. sp., Ulrich and Scofield, 5541.
 lirata n. sp., Ulrich and Scofield, 5541
 (?) notabilis n. sp., Ulrich and Scofield, 5541.
 (?) trochonomoides n. sp., Ulrich and Scofield, 5541.
 Loricera glacialis, Scudder, 4896.
 ? Intosa, Scudder, 4896.
 Loxonema Phillips, Grabau, 2086.
 altivolvis n. sp., Whiteaves, 6074.
 attenuatum Hall ?, Girty, 2037.
 boydii Hall, Whiteaves, 6080.
 breviculum Hall, Grabau, 2086.
 cingulatum n. sp., Whiteaves, 6074.
 ? coapta Hall, Grabau, 2086.
 delicatum n. sp., Girty, 2038.
 delphicola Hall, Grabau, 2086.
 gracillimum n. sp., Whiteaves, 6074.
 hamiltonike Hall, Grabau, 2086.
 magnum Whitfield, var., Whiteaves, 6080.
 multicosta Meek and Worthen, Keyes, 3062.
 oligospira Win., Weller, 6006.
 parvulum, Whitfield, 6099.
 plicatum, Whitfield, 6099.
 scitulum Meek and Worthen, Keyes, 3062.
 shumardana (Win.), Weller, 6006.
 tenuilineatum (Shumard), Keyes, 3062.
 winnipegense n. sp., Whiteaves, 6076.
 winnipegense Whiteaves, Whiteaves, 6087.
 (?) sp., Girty, 2038.
 sp., Weller, 5994, 6006.
 Loxoplocus solutus Whiteaves, Whiteaves, 6080.
 Lucapina suffusa Reeve, Dall, 1259.
 Lucifer, Beecher, 366.
 Lucina acclinis (?), Whitfield, 6101.
 anodonta, Say, 4813.
 aquiana n. sp., Clark, 904, 906.
 astartiformis n. sp., Aldrich, 74.
 astartiformis, Harris, 2313.
 claytonia n. sp., Harris, 2310.
 coetol n. sp., Aguilera, 57.
 colusaensis n. sp., Stanton, 5199.
 contracta, Say, 4813.
 crenulata, Whitfield, 6101.
 cribraria, Say, 4813.
 dartoni n. sp., Clark, 904, 906.
 divaricata, Say, 4813.
 fortidentalis n. sp., Harris, 2310.
 greggi n. sp., Harris, 2313, 2315.
 juvenis n. sp., Stanton, 5191.
 livonensis (?) n. sp., Clarke, 946.
 occidentalis Morton, Logan, 3554.
 ovalis n. sp., Stanton, 5199.
 ozarkana n. sp., Harris, 2213, 2315.
 pauperata n. sp., Guppy and Dall, 2214.
 pomilia, Harris, 2313.
 potosina n. sp., Aguilera, 57.
 subobliqua, Say, 4983.

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Genera and species described—Continued.

- Lucina subundata H. and M., Stanton, 5191.
 symmetrica (?), Harris, 2313.
 textilis n. sp., Guppy and Dall, 2214.
 trisulcata, Whitfield, 6101.
 turneri n. sp., Stanton, 5198.
 uhleri n. sp., Clark, 904, 906.
 ulrichi, Harris, 2313.
 whitei n. sp., Clark, 904, 906.
 Lunatia concinna Hall and Meek (sp.), Stanton, 5191.
 halli, Whitfield, 6097.
 hornii Gabb, Stanton, 5198.
 marylandica Conrad, Clarke, 906.
 Lunulicardia Gray, Dall, 1281.
 Lunulicardium Munster, Grabau, 2086.
 curtum Hall, Grabau, 2086.
 fragile Hall, Grabau, 2086.
 grande n. sp., Miller and Gurley, 4002.
 (?) lineolatum n. sp., Clarke, 946.
 livoniae n. sp., Clarke, 946.
 retrorsum n. sp., Miller and Gurley, 4002.
 Lutra rhoadsii n. sp., Cope, 1101, 1104.
 Lutraria Lamareck, Dall, 1272.
 senna, James, 2894.
 Lycophoria Lahusen, Hall and Clarke, 2261a, 2264.
 Lycopodium lesquereuxiana n. sp., Knowlton, 3264.
 Lycosaurus, Case, 768.
 Lyellia Milne-Edwards and Haime, Lambe, 3374.
 affinis Billings, Lambe, 3374.
 americana Milne-Edwards and Haime, Lambe, 3374.
 decipiens Rominger, Lambe, 3374.
 exigua Billings (sp.), Lambe, 3374.
 superba Billings, Lambe, 3374.
 Lygodium kaulfussii Heer, Knowlton, 3255.
 kaulfussii Heer, Newberry, 4083.
 neuropteroides Lesquereux, Dawson, 1448.
 Lynx calcaratus Cope, Cope, 1104.
 Lyopora Nich. and Eth. jun., Lambe, 3374.
 Lyra cumberland, Hall and Clarke, 2264.
 Lyria costata Sowerby, Dall, 1259.
 musicina Heilprin, Dall, 1259.
 pulchella Sowerby, Hall, 1259.
 wilcoxiana n. sp., Aldrich, 70.
 wilcoxiana, Harris, 2310.
 Lyriocrinus Hall, Weller, 6002.
 melissa Hall, Weller, 6002.
 Lyriopecten sp.?, Clarke, 971.
 Lyrodesma Conrad, Ulrich, 5539.
 acuminatum n. sp., Ulrich, 5539.
 cannonense n. sp., Ulrich, 5539.
 conradi n. sp., Ulrich, 5535.
 grande n. sp., Ulrich, 5535.
 inornatum n. sp., Ulrich, 5535.
 subplanum n. sp., Ulrich, 5535.
 Lyrodietya Hall, Hall and Clarke, 2269, 2271.
 (?) burlingtonensis Hall (sp.), Hall and Clarke, 2269, 2271.
 romingeri Hall, Hall and Clarke, 2269, 2271.
 Lyropora, Simpson, 4983.

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- Lyropora goldfussi* Billings (sp.), Lambe, 3374.
retrosa Meek and Worthen, Keyes, 3062.
- Lyroporella*, Simpson, 4983.
- Lyroporidra* n. gen., Simpson, 4983.
- Lyroporina* n. gen., Simpson, 4980.
- Lyrosoma* Conrad, Whitfield, 6101.
sulcosa, Whitfield, 6101.
- Lyrtoceeras batesi* (Trask), Stanton, 5199.
jukesii Sharpe, Whiteaves, 6085.
- Lysactinella* n. gen., Girty, 2034.
- Lysactinella* Girty, Hall and Clarke, 2269, 2270.
gebhardi n. sp., Girty, 2034.
perelegans n. sp., Girty, 2034.
- Lysorophus tricarinatus* Cope, Case, 773.
- Lytoceras* Suess, Smith, 5052.
alamedense n. sp., Smith, 5052.
- Lyttonia* Waagen, Hall and Clarke, 2261a, 2264.
- Macandrevia* King, Hall and Clarke, 2264.
(Antiptychina Zittel), Hall and Clarke, 2264.
- (Aulacothyris Douville)*, Hall and Clarke, 2264.
- (Camerothyris Bittner)*, Hall and Clarke, 2264.
- (Epicyrta Deslongchamps)*, Hall and Clarke, 2264.
- (Eudesia King)*, Hall and Clarke, 2264.
- (Fimbriothyris Deslongchamps)*, Hall and Clarke, 2264.
- (Microthyris Deslongchamps)*, Hall and Clarke, 2264.
- (Orthotoma Quenstedt)*, Hall and Clarke, 2264.
- (Plesiothyris Douville)*, Hall and Clarke, 2264.
- (Zeilleria Bayle)*, Hall and Clarke, 2264.
- Macelintockia cretacea* Heer, Lesquereux, 3470.
trinervis Heer, Dawson, 3470.
- Machærodus* Kaupp, Cope, 1104.
crassidens Cragin, Williston, 6228.
gracilis Cope, Cope, 1104.
- Maclurea* (Lenseur) Woodward, Ulrich and Scofield, 5541.
affinis Bill., Whitfield, 6106.
bigsyi Hall, Ulrich and Scofield, 5541.
 var. *dixonensis* n. var., Ulrich and Scofield, 5541.
- bigsyi*, Whitfield, 6102.
- crassa* n. sp., Ulrich and Scofield, 5541.
 var. *maera* n. var., Ulrich and Scofield, 5541.
- depressa* n. sp., Ulrich and Scofield, 5541.
- knoxvillensis* n. sp., Ulrich and Scofield, 5541.
- magna* (Le Sueur), Keyes, 3062.
- manitobensis*, Whiteaves, 6076.
- nitida* n. sp., Ulrich and Scofield, 5541.
- Macluria* (Maclurina) *manitobensis* Whiteaves, Whiteaves, 6087.
- Maclurina* n. gen., Ulrich and Scofield, 5541.
cuneata Whitfield, Ulrich and Scofield, 5541.

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- Maclurina manitobensis* Whiteaves, Ulrich and Scofield, 5541.
subrotunda Whitfield, Ulrich and Scofield, 5541.
- Macoma* Leach, Dall, 1281.
alumensis n. sp., Dall, 1281.
balthica Linné, Dall, 1281.
calcareo Gmelin, Dall, 1281.
 (?) *calhounensis* n. sp., Dall, 1281.
conradi n. sp., Dall, 1281.
constricta Bruguiere, Dall, 1281.
irma n. sp., Dall, 1281.
kelseyi n. sp., Dall, 1281.
laxa n. sp., Dall, 1281.
lenis Conrad, Dall, 1281.
lyelli Dall, 1281.
tenta Say, Dall, 1281.
virginiana Conrad, Dall, 1281.
(Cymatoica) *Vendryesi* n. sp., Dall, 1281.
(Psammacoma) *aurora* Hanley, Dall, 1281.
 brevifrons Say, Dall, 1281.
 ? *holmesii* n. sp., Dall, 1281.
 olivella n. sp., Dall, 1281.
 ? *producta* Conrad, Dall, 1281.
 tageliformis n. sp., Dall, 1281.
 tracta n. sp., Dall, 1281.
 (Rexithærus) *secta* Conrad, Dall, 1281.
- Macrepistius arenatus* n. gen. et sp., Cope, 1093.
- Macrocaris* n. gen., Miller, 3995.
gorbyi n. sp., Miller, 3995.
- Macrochilina blairi* n. sp., Miller, 3992.
pulchella n. sp., Whiteaves, 6074.
- Macroerinus* W. and Sp. (nov. gen.), Wachsmuth and Springer, 5765a.
carica (Hall), Wachsmuth and Springer, 5765a.
gemmiformis (Hall), Wachsmuth and Springer, 5765.
jucundus (M. and G.), Wachsmuth and Springer, 5765a.
konineki (Shum.), Wachsmuth and Springer, 5765a.
lagunculus (Hall), Wachsmuth and Springer, 5765a.
verneuilianus (Shum.), Wachsmuth and Springer, 5765a.
- Macrodon* Lycett, Grabau, 2086.
- Macrodon* Lycett, Woods, 6431.
blairi n. sp., Miller and Gurley, 4002.
cochlearis Win., Weller, 6006.
facetis n. sp., Miller and Gurley, 4002.
hamiltoniæ Hall, Grabau, 2086.
modesta (Win.), Weller, 6006.
obsoletus Meek, Keyes, 3062.
pettisensis n. sp., Miller and Gurley, 4002.
pygmæus n. sp., Whiteaves, 6074.
sangamonensis? Worthen, Keyes, 3062.
tenuistriatus Meek and Worthen, Keyes, 3062.
 sp., Weller, 5994.
- Macroheilus* *priscus*, Whitfield, 6099.
regularis, Whitfield, 6099.
subcorpulentus, Whitfield, 6099.
- Macrochilina keyesi* n. sp., Rowley, 4677a.

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- Macrochilina tantilla n. sp., Rowley, 4677a.
 Macron philadelphicus n. sp., Harris, 2316.
 Macronotella n. gen., Ulrich, 5540.
 scofieldi n. sp., Ulrich, 5540.
 Macropetalichthys, Eastman, 190.
 Macrothoptus intutus, Scudder, 4890.
 Macrostylocrinus Hall, Weller, 6002.
 indianensis n. sp., Miller and Gurley, 3997d.
 obconicus n. sp., Weller, 6002.
 semiradiatus (Hall), Weller, 6002.
 striatus Hall, Weller, 6002.
 subglobosus n. sp., Weller, 6002.
 Macroteniopteris vancouverensis n. sp., Dawson, 1436.
 Macroteniopteris californica Fontaine, Ward, 5857.
 magnifolia Schimper, Ward, 5857.
 magnifolia (Rogers) Schimper, Ward, 5857.
 nervosa Fontaine, Ward, 5857.
 Mactra Lamarck, Dall, 1272.
 Mactra Linné, Dall, 1272.
 albirupina n. sp., Harris, 2305.
 antiqua n. sp., Cragin, 1116.
 antiqua, Stanton, 5197.
 bistriata Har., Harris, 2315.
 catilliformis Conrad, Dall, 1263.
 chipolana n. sp., Dall, 1272.
 clathrodon Lea, Dall, 1272.
 dolabriformis Conrad, Dall, 1263.
 emmonsii Meek, Logan, 3554.
 emmonsi Meek, Stanton, 5191.
 formosa, Meek, Herrick and Johnson, 2465.
 hemphillii n. sp., Dall, 1263.
 huerfanensis n. sp., Stanton, 5191.
 literalis, Harris, 2309.
 mississippiensis Con. var., Harris, 2315.
 pratenius var. bistriata, Harris, 2313.
 pulchella n. sp., Herrick and Johnson, 2465.
 (Coelomactra) Dall, Dall, 1272.
 (Cymbophora?) utahensis Meek, Stanton, 5191.
 (Mactrella) Gray, Dall, 1272.
 darienensis n. sp., Dall, 1272.
 (Macroderma) Dall, 1272.
 (Mactrotoma) Dall, 1272.
 cymata n. sp., Dall, 1272.
 fragilis Gmelin, Dall, 1272.
 undula n. sp., Dall, 1272.
 willcoxi n. sp., Dall, 1272.
 (Mulinia?) lateralis, Whitfield, 6101.
 (Schizodesma) delumbris, Whitfield, 6101.
 Mactropsis Conrad, Dall, 1272.
 Madracis ganei n. sp., Vaughan, 5735.
 gregorioi n. sp., Vaughan, 5735.
 johnsoni n. sp., Vaughan, 5735.
 Magas Sowerby, Hall and Clarke, 2264.
 Magasella Dall, Hall and Clarke, 2264.
 Magdalis sedimentorum, Scudder 4890.
 Magellania Bayle, Hall and Clarke, 2264.
 Magnolia alternans Heer, Lesquereux, 3472.
 alternans Heer (?), Newberry, 4080, 4083.
 amplifolia Heer, Lesquereux, 3472.
 auriculata n. sp., Newberry, 4080.

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- Magnolia boulayana n. sp., Lesquereux, 3472.
 capellini Heer, Dawson, 1436.
 culveri n. sp., Knowlton, 3255.
 elliptica Newb. n. sp., Newberry, 4083.
 glaucoides n. sp., Newberry, 4080.
 hilgardiana Lx., Hollick, 2708.
 lacoeana n. sp., Lesquereux, 3472.
 lacoeana Lesq., Newberry, 4080.
 lanceolata Lx., Hollick, 2708.
 longifolia n. sp., Newberry, 4080.
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 longipes n. sp., Newberry, 4080.
 microphylla n. sp., Knowlton, 3255.
 obovata Newb., Newberry, 4083.
 obtusata Heer, Lesquereux, 3472.
 occidentalis n. sp., Dawson, 1436.
 (?) pollardi n. sp., Knowlton, 3255.
 pseudoacuminata n. sp., Lesquereux, 3472.
 pulchra Ward, Knowlton, 3264.
 rotundifolia Newb., Newberry, 4083.
 spectabilis n. sp., Knowlton, 3255.
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 woodbridgensis Hollick n. sp., Newberry, 4080.
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 Malapoenna lamarensis n. sp., Knowlton, 3255.
 macrophyloides n. sp., Knowlton, 3264.
 Manapsis n. gen., Scudder, 4894.
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 Mangilia consentanea n. sp., Guppy and Dall, 2214.
 (Pleurotomella) bellistriata n. sp., Clark, 904, 906.
 Mangilia suturalis n. sp., Cooper, 1071.
 Manicaria haydenii Newb., Newberry, 4083.
 sp., Dawson, 1448.
 Manicina pliocenica n. sp., Gane, 1934.
 Mannia Dewalque, Hall and Clarke, 2264.
 Manteodon subquadratus Cope, Earle, 1589.
 Manticoceras accelerans n. sp., Clarke, 960.
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 fasciculatum n. sp., Clarke, 960.
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 brownii n. sp., Cragin, 1118.
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 tampaensis n. sp., Dall, 1259.
 (Solariella) newberryi n. sp., Cragin, 1116.
 Margaritana subangulata n. sp., Cooper, 1070.
 Margaritella abbotti, Whitfield, 6097.
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- Marginella bella* Conrad, Dall, 1259.
denticulata Conrad, Dall, 1259.
domingoensis n. sp., Guppy and Dall, 2214.
elegantula n. sp., Dall, 1259.
eulima n. sp., Dall, 1259.
faunula n. sp., Dall, 1259.
floridana n. sp., Dall, 1259.
gravida n. sp., Dall, 1259.
latissima n. sp., Guppy and Dall, 2214.
limatula Conrad, Dall, 1259.
limonensis n. sp., Guppy and Dall, 2214.
pardallis Dall (*apicina* Menke var.?), Dall, 1259.
newmani n. sp., Dall, 1259.
onchidella n. sp., Dall, 1259.
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willcoxiana n. sp., Dall, 1259.
(Persicula) arcuata n. sp., Guppy and Dall, 2214.
(Volutella) amiantula n. sp., Dall, 1259.
dacria n. sp., Dall, 1259.
Marginulina ensis Reuss, Bagg, 150.
pediformis Bornemann, Bagg, 150.
trilobata d'Orbigny, Bagg, 150.
Mariacrinus Hall, James, 2889.
aureatus n. sp., Miller, 3992.
granulosus n. sp., Miller, 3992.
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Mariopteris capitata n. sp., White, 6049.
eremopteroides n. sp., White, 6052.
mazoniana Lx. sp., White, 6040.
muricata (Schloth) Zeill., White, 6049.
cf. nervosa (Brongn.) Zeill., White, 6050.
occidentalis n. sp., White, 6049.
villosa n. var., White, 6049.
pottsvillea n. sp., White, 6052.
pygmæa n. sp., White, 6052.
sillimanni (Brongn.), White, 6049.
sphenopteroides (Lx.) Zeill., White, 6050.
tennesseana n. sp., White, 6052.
(Pseudopecopteris) decipiens Lx. sp., White, 6040.
sp., White, 6050.
n. sp.,? White, 6050.
Marsilea? attenuata (Lx.) Hollick, Knowlton, 3264.
Marsupiocrinus Phill., Wachsmuth and Springer, 5765a.
Marsupiocrinus Phillips, Weller, 6002.
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praematurus (Hall and Whitf.), Wachsmuth and Springer, 5765a.
striatus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
tennesseensis (Roemer), Wachsmuth and Springer, 5765a.
tentaculatus (Hall), Wachsmuth and Springer, 5765a.
Martesia Leach, Dall, 1272.
dalliana n. sp., Harris, 2310.

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- Martesia elongata*, Harris, 2313.
 ? *ovalis* n. sp., Dall, 1272.
texana n. sp., Harris, 2307.
Martinia rostrata n. sp., Girty, 2038.
Masteutes n. gen., Scudder, 4890.
rupis, Scudder, 4890.
saxifer, Scudder, 4890.
Mastodon americanus Leidy, Cope, 1104.
floridanus, Leidy, 3447.
successor n. sp., Cope, 1079.
Mastodontosaurus, Case, 767.
Matamynodon planifrons S. & O., Osborn and Wortman, 4192.
Matheria Billings, Ulrich, 5539.
rugosa n. sp., Ulrich, 5534, 5539.
Mathilda leana Ald., Harris, 2316.
plexita n. sp., Guppy and Dall, 2214.
regularis Meyer, Aldrich, 74.
Matonidium althausii (Dunker) Ward n. comb., Fontaine, 1850.
Mazzalina costata n. sp., Dall, 1259.
dalli n. sp., Harris, 2305.
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inaurata var. Con., Harris, 2311.
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costata Torrell (sp.), Walcott, 5811.
deperditia Beyrich (sp.), Walcott, 5811.
porpitina Haeckel, Walcott, 5811.
princeps Torrell (sp.), Walcott, 5811.
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Medusites cretaceous Kner, Walcott, 5811.
helgolandicus Brandt, Walcott, 5811.
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lindstromii, James, 2893.
Meekapora, Simpson, 4983.
Meekella White and St. John, Hall and Clarke, 2260.
striatocostata (Cox), Keyes, 3062.
Meekia sella Gabb, Whiteaves, 6095a.
Meekospira n. gen., Ulrich and Scofield, 5541.
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Megalanteris Suess, Hall and Clarke, 2261a, 2264.
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Megalichthys, Hay, 2381.
macropomus n. sp., Cope, 1082, 1093.
Megalneusaurus n. gen., Knight, 3208.
rex, Knight, 3208.
Megalograptus, James, 2881.
velchi, James, 2881.
Megalomphala n. gen., Ulrich and Scofield, 5541.
Megalomus canadensis Hall, Whiteaves, 6080.
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 loxodon Cope, Cope, 1104.
 scalper Cope, Cope, 1104.
 tortulus Cope, Cope, 1104.
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Megalopteris plumosa n. sp., White, 6052.
Megambonia crenistriata n. sp., Clarke, 971.
 lata Hall, Girty, 2037.
Megathyris D'Orbigny, Hall and Clarke, 2264.
Megerlia dubitanda n. sp., Cooper, 1071.
Megerlina Deslongchamps, Hall and Clarke, 2264.
Megistocrinus O. and Shum., Wachsmuth and Springer, 5765a.
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 multidecoratus (Barris), Wachsmuth and Springer, 5765a.
 nobilis W. and Sp., Wachsmuth and Springer, 5765a.
 nodosus (Barris), Wachsmuth and Springer, 5765a.
 rugosus Lyon and Cass., Wachsmuth and Springer, 5765a.
 spinosulus Lyon, Wachsmuth and Springer, 5765a.
Megistocrinus brevicornis Hall, Keyes, 3061.
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 expansus n. sp., Miller and Gurley, 3997b.
 hemisphericus n. sp., Miller and Gurley, 3998.
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 ornatus n. sp., Miller and Gurley, 3998.
Meioceras cingulatum n. sp., Dall, 1257.
Melampus clarkii n. sp., White, 6036.
Melania sylværupis n. sp., Harris, 2316.
 trigemmata Con., Harris, 2316.
Melanopsis anita Ald., Harris, 2316.
 planoidea n. sp., Aldrich, 73.
 planoidea Ald., Harris, 2316.
Melina Retzius, Dall, 1272.
 maxillata (Deshayes), Dall, 1272.
Melocrinus Goldfuss, Weller, 6002.
 æqualis n. sp., Miller, 3995.
 gregari n. sp., Rowley, 4673.
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 milwaukensii n. sp., Weller, 5988.
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 nodosus Hall, Weller, 5988.
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 sampsoni n. sp., Miller and Gurley, 3998.
 subglobosus n. sp., Weller, 5988.
 tersus n. sp., Rowley, 4674.
Melongena corona Gmelin, Dall, 1259.
 sculpturata var. *turricula*, Dall, 1259.
 subcoronata var. *aspinosa*, Dall, 1259.
Melonites crassus Hambach, Keyes, 3077.
 gigantens n. sp., Jackson, 2871.
 indianensis n. sp., Miller and Gurley, 3997a.
 multipora Norwood and Owen, Keyes, 3061, 3077.
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 septanarius n. sp., Jackson, 2871.
Meniscosus Cope, Osborn, 4184.
Meniscophyllum, n. gen., Simpson, 4984.
 minutum, n. sp., Simpson, 4984.
Menispermites borealis Heer (?), Newberry, 4080.
 drysoniana n. sp., Hollick, 2672.
 knightii n. sp., Knowlton, 3264.
 rugosus n. sp., Lesquereux, 3470.
 virginiensis Font., Ward, 5846.
 wardianus Hollick, n. sp., Newberry, 4080.
Menodus augustigenis, Ami, 84.
Menophyllum (?) *excavatum* n. sp., Girty, 2038.
Mephitis Linn., Cope, 1104.
 fissidens n. sp., Cope, 1101, 1104.
 leptops Cope, Cope, 1104.
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 orthostichus n. sp., Cope, 1101, 1104.
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Meretrix cornelli n. sp., Harris, 2308.
 fulva n. var., Harris, 2313.
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 hatchetigbeensis, Harris, 2313.
 mortoniopsis var. *Hp.*, Harris, 2311.
 nuttaliopsis, Harris, 2313.
 pearlensis n. sp., Harris, 2311.
 perovata var. *aldrichi* n. var., Harris, 2308.
 ripleyana, Harris, 2310.
 subimpressa var., Harris, 2313.
 texacola n. sp., Harris, 2307.
 sp., Harris, 2310.
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Merista Suess, Hall and Clarke, 2261, 2264.
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 arcuata var. *atoka* n. var., Girty, 2037.
 barrisi Hall, Grabau, 2086.
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- Meristella laevis*, Whitfield, 6099.
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lentiformis, n. sp., Clarke, 971.
rostrata Hall, Grabau, 2086.
umbonata, Foeerste, 1835.
 (?) *vascularia* n. sp., Clarke, 971.
walcotti n. sp., Hall and Clarke, 2261a, 2263, 2268.
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nitida, Girty, 2032.
Merostomichnites beecheri n. sp., Packard, 4230.
narragansettensis (Pack.), Packard, 4230.
Merycochoerus laticeps n. sp., Douglas, 1531.
Merycodesmus n. gen., Scott, 4883.
gracilis n. sp., Scott, 4883.
Mesalia alabamiensis, Harris, 2310.
claibornensis Con., Harris, 2307.
elongata n. sp., Whitfield, 6097.
pleboides n. sp., Vaughan, 5722.
pumila, Harris, 2310.
 var. *alabamensis* Whitf., Harris, 2316.
 var. *allentoniensis*, Harris, 2310.
 var. *hardemanensis*, Harris, 2310.
 var. *wilcoxiana*, Harris, 2310.
vetusta Con., Harris, 2308.
watsonensis n. sp., Harris, 2310.
 (?), Harris, 2310.
Mesocetus siphunculus n. sp., Cope, 1096.
siphunculus, Cope, 1100.
Mesodesma Deshayes, Dall, 1272.
 (*Donacilla*) (Lam.) Phillips, Dall, 1272.
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Mesodon abrasus n. sp., Cragin, 1119.
abrasus, Williston, 6259.
diastematicus n. sp., Cope, 1093.
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Mesogaulus ballensis n. gen. et sp., Riggs, 4642.
Mesohippus Marsh, Osborn and Wortman, 4192.
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bairdii, Osborn and Wortman, 4189.
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copei, Farr, 1793.
intermedius n. sp., Osborn and Wortman, 4192.
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 (?) *longipes* n. sp., Osborn and Wortman, 4189.
Mesomorpha catadupensis n. sp., Vaughan, 5734.
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Mesonyx uintensis, Osborn, 4190.
Mesosaurus, Case, 768.
Mesostoma occidentalis, Stanton, Herrick, and Johnson, 2465.
occidentalis n. sp., Stanton, 5191.
Mesothyra, Clarke, 939.
gurleyi n. sp., Miller, 3995.
Mesotreta Kutorga, Hall and Clarke, 2260.
Mesotrypa n. gen., Ulrich, 5537.
discoidea n. sp., Ulrich, 5537.
infida Ulrich, Ulrich, 5537.

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- Mesotrypa quebecensis* Ami sp., Ulrich, 5537.
 ? *rotunda* n. sp., Ulrich, 5537.
selkirkensis n. sp., Whiteaves, 6087.
 ? *spinosa* n. sp., Ulrich, 5537.
Metablastus bipyramidalis (Hall), Keyes, 3061.
lineatus (Shumard), Keyes, 3061.
wortheni (Hall), Keyes, 3061.
Metacoceras, Hyatt, 2819.
cavatiformis, Hyatt, 2816.
cavatiforme Hyatt, Miller, 3995.
dubium n. sp., Hay, 2389.
hayi n. sp., Hay, 2389.
inconspicuum n. sp., Hay, 2389.
walcotti, Hyatt, 2389.
Metacypri consobrina n. sp., Jones, 2934.
cuneiformis n. sp., Jones, 2934.
simplex n. sp., Jones, 2934.
subcordata n. sp., Jones, 2934.
Metadoxides Bornemann, Matthew, 3789.
magnificus n. sp., Matthew, 3783, 3789.
magnificus Matthew?, Burr, 666.
magnificus Matthew (?), Grabau, 2092.
Metamynodon planifrons, Osborn and Wortman, 4189.
Metaplasia n. gen., Hall and Clarke, 2261, 2264.
pyxidata Hall, Clarke, 971.
Metis H. and A. Adams, Dall, 1281.
alta Conrad, Dall, 1281.
biplicata Conrad, Dall, 1281.
chipolana n. sp., Dall, 1281.
intastriata Say, Dall, 1281.
magnoliana n. sp., Dall, 1281.
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Metopocetus durinatus n. gen. et sp., Cope, 768.
Metoposaurus (Metopias), Case, 767.
Metula sylvarupis n. sp., Harris, 2316.
Meyeria? harveyi n. sp., Woodward, 6442.
Mezoneurum bridgetonense n. sp., Hollick, 2686.
Miacis canavus Cope, Osborn and Wortman, 4183.
uintensis n. sp., Osborn, 4190.
Michelinia, Girty, 2032.
Michelinia de Koninek, Lambe, 3379.
branneri n. sp., Miller and Gurley, 3997a.
bridghami, n. sp., Greene, 2162d.
clappii Milne-Edwards and Halme, Lambe, 3374.
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favosistoidea Billings em. (*favosioidea*), Lambe, 3374.
louisvillensis, n. sp., Greene, 2162b.
minuta, n. sp., Greene, 2162.
neglecta, n. sp., Greene, 2162b.
papulosa, n. sp., Greene, 2162b.
placenta White, Girty, 2038.
spiculata, n. sp., Greene, 2162b.
tantilla, n. sp., Greene, 2162b.
williamsi, n. sp., Greene, 2162b.
Mickwitzia Schmidt, Hall and Clarke, 2260.
Micmacca n. gen., Matthew, 3761.
angimargo n. sp., Matthew, 3789.
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 Micrapsis n. gen., Scudder, 4894.
 paludis, Scudder, 4894.
 Microblattina n. gen., Scudder, 4898.
 perdita n. sp., Scudder, 4898.
 Microcyclus blairi n. sp., Miller, 3995.
 Microdiscus Emmons, Matthew, 3770, 3789.
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 bellimarginatus, Shaler and Foerste, Mut.
 insularis n. mut. Matthew, 3789.
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 dawsoni Hartt, Matthew, 3770.
 lobatus (Hall), Grabau, 2092.
 precursor, Matthew, 3770.
 punchellus Hartt, Matthew, 3770.
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 Microdon reservatus Hall, Lane, 3400.
 Microdus dumbelli n. sp., Cope, 1084.
 Microgomphodon, Case, 768.
 Microspongia, James, 2881.
 gregaria, James, 2881.
 (?) subrotundus, James, 2881.
 Microsypops uintensis n. sp., Osborn, 4190.
 Microtus dideltus Cope, Cope, 1104.
 diluvianus n. sp., Cope, 1101, 1104.
 involutus Cope, Cope, 1104.
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 Microyoldia Verrill, Dall, 1272.
 Microzamia gibba (Reuss) Corda, Newberry, 4080.
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 Minoceras Hall, Ulrich and Scofield, 5541.
 Mioclænus Cope, Matthew, 3800.
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 acolytus (Cope), Matthew, 3800.
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 lemuroides n. sp., Matthew, 3801.
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 Miolabi Hay, Matthew, 3804.
 Mitoclema, Simpson, 4983.
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 ? mundulum Ulrich, Ulrich, 5537.
 Mitra hammakeri n. sp., Harris, 2305.
 hatchetigbeensis Ald., Harris, 2316.
 hatchetigbeensis ?, Harris, 2310.
 holmesii n. sp., Dall, 1259.
 lineolata Heilprin, Dall, 1259.
 lintoidea n. sp., Aldrich, 71.
 marylandica n. sp., Clark, 904, 906.
 pergracilis Con., Harris, 2316.
 silicata Dall, (mississippiensis var.?) Dall, 1259.
 simplicissima n. sp., Cooper, 1071.
 subpontis n. sp., Harris, 2310.
 wandoensis Holmes, Dall, 1259.
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 Mitrocrinus n. gen., Miller and Gurley, 3997c.
 wetherbyi n. sp., Miller and Gurley, 3997c.
 Mitromorpha cincta n. sp., Dall, 1259.
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 Mixodectes Cope, Matthew, 3801.
 Modiella Hall, Grabau, 2086.
 Modiola Harris, 2313, 2315.
 alabamensis n. sp., Aldrich, 73.
 branneri n. sp., Hill, 2589.
 filisculpta n. sp., Cragin, 1115.
 gigas Wagner, Dall, 1273.
 houstonia n. sp., Harris, 2307.
 inflata, Whitfield, 6101.
 jurafacies n. sp., Cragin, 1115.
 major Gabb, Stanton, 5199.
 pealei n. sp., White, 6036.
 persistens n. sp., Whiteaves, 6095a.
 potomacensis n. sp., Clark, 904, 906.
 pygmæa (Conrad), Grabau, 2086.
 saffordi, Harris, 2310.
 stonewallensis n. sp., Cragin, 1115.
 stubbsi n. sp., Harris, 2315.
 subpontis n. sp., Harris, 2310.
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 (Brachydontes) multilinigera Meek, Stanton, 5191.
 Modiolaria Beck, Dall, 1272.
 carolinensis n. sp., Dall, 1272.
 lateralis Say, Dall, 1272.
 virginica Conrad, Dall, 1272.
 Modiolodon n. gen., Ulrich, 5539.
 declivis n. sp., Ulrich, 5535.
 (?) gibbus n. sp., Ulrich, 5539.
 obtusus n. sp., Ulrich, 5535.
 oviformis, Ulrich, 5535.
 var. amplius n. var., Ulrich, 5535.
 patulus n. sp., Ulrich, 5539.
 subovalis n. sp., Ulrich, 5535.
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 Modiolopsidæ n. fam., Ulrich, 5539.
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 angustifrons n. sp., Whiteaves, 6087.
 arguta n. sp., Ulrich, 5539.
 chatfieldensis n. sp., Ulrich, 5539.
 concava n. sp., Ulrich, 5534, 5539.
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 (?) consimilis n. sp., Ulrich, 5539.
 corrugata n. sp., Miller and Faber, 3994.
 dychii n. sp., Miller, 3995.
 excellens n. sp., Ulrich, 5539.
 longus n. sp., Miller and Faber, 3994.
 mytiloides Hall, Ulrich, 5539.
 nan, n. sp., Ulrich, 5539.
 obsoleta n. sp., Ulrich, 5539.
 oweni n. sp., Ulrich, 5539.
 parviuscula Billings, Whiteaves, 6087.

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- Modiolopsis plana* Hall, Ulrich, 5534.
plana Whitfield, 6102.
rhomboides, Foerste, 1835.
similis n. sp., Ulrich, 5534.
similis Ulrich, Ulrich, 5539.
subelliptica n. sp., Ulrich, 5534.
subrhomboides, Foerste, 1835.
sulcata n. sp., Miller and Faber, 3994.
 (?) *superba*, Whitfield, 6102.
theoides, Matthew, 3790.
Modiolus Lamarck, Dall, 1272.
cretaceus Conrad, Dall, 1272.
ducatelli Conrad, Dall, 1272.
silicatus n. sp., Dall, 1272.
pugetensis n. sp., Dall, 1272.
(Botula) cinnamomeus Lamarck, Dall, 1272.
(Brachydontes) critinus Bolten, Dall, 1272.
demissus Dillwyn, Dall, 1272.
grammatus n. sp., Dall, 1272.
guppyi n. sp., Dall, 1272.
(Gregariella) minimus n. sp., Dall, 1272.
Modiomorpha Hall, Grabau, 2086.
alata (Conrad), Grabau, 2086.
attenuata, Whiteaves, 6074.
compressa n. sp., Whiteaves, 6074.
concentrica (Conrad), Grabau, 2086.
helmreicheni n. sp., Clarke, 976.
northviewensis n. sp., Weller, 5994.
parvula n. sp., Whiteaves, 6074.
pimentana, Hartt and Rathbun, Clarke, 976.
sellowi, Clarke, 976.
subalata (Conrad), Grabau, 2086.
tumida n. sp., Whiteaves, 6074.
 (?) sp., Girty, 2039.
Modulus compactus n. sp., Dall, 1259.
floridanus Conrad, Dall, 1259.
lapidosa n. sp., Whitfield, 6097.
turbinatus Heilprin, Dall, 1259.
willcoxii n. sp., Dall, 1259.
Mogulia Wangen, Ulrich and Scofield, 5541.
Moina rectirostris, Beecher, 366.
Molleria duplinensis n. sp., Dall, 1259.
Monilea (Leiotrochus) eborea, Whitfield, 6101.
Monilopora Nich. and Eth. jr., Grabau, 2088.
antiqua Whiteaves, Grabau, 2088.
beecheri n. sp., Grabau, 2088.
crassa (McCoy), Grabau, 2088.
Moniloporidæ n. fam., Grabau, 2088.
Monobolina Salter, Hall and Clarke, 2260.
Monoceras jacksonium n. sp., Harris, 2311.
Monocladodus clarki, Claypole, 986.
pinnatus, Claypole, 986.
Monoclonius, Marsh, 3701.
Monocotyledon gen. et sp., (?) Newberry, 4083.
Monograptus beecheri n. sp., Girty, 2034.
Monomerella Billings, Hall and Clarke, 2260.
durhamensis n. sp., Whiteaves, 6080.
egani n. sp., Hall and Clarke, 2260, 2268.
greenii n. sp., Hall and Clarke, 2260, 2268.
kingi, n. sp., Hall and Clarke, 2260, 2268.
ortoni n. sp., Hall and Clarke, 2260, 2268.
 sp. undet., Whiteaves, 6080.

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- Monopteria gibbosa alata* n. var., Beede, 388.
gibbosa (Meek and Worthen), Keyes, 3062.
longispina (Cox), Keyes, 3062.
 ? *subalata* n. sp., Beede and Rogers, 396.
Monotis? gregaria Meek and Worthen, Keyes, 3062.
semiplicata n. sp., Hyatt, 2818.
symmetrica n. sp., Hyatt, 2818.
Monotrypa Nicholson, Grabau, 2086.
Monotrypa Simpson, 4983.
Monotrypa Nicholson, Ulrich, 5537.
amplectens, n. sp., Grabau, 2086.
arbusculus, Hall and Simpson, Clarke, 971.
fruticosa (Hall), Grabau, 2086.
 (?) *furcata* (Hall), Grabau, 2086.
incerta, n. sp., Ami, 79.
intabulata n. sp., Ulrich, 5537.
magna n. sp., Ulrich, 5537.
nodosa n. sp., Ulrich, 5537.
rectimuralis Ulrich, James, 2896.
 (?) *Chatetes* *cumulatan*, sp., Ulrich, 5537.
Monotrypella, Simpson, 4983.
Montacuta Turton, Dall, 1281.
 (?) *actinophora* n. sp., Dall, 1281.
 (?) *chipolana* n. sp., Dall, 1281.
claiborniana n. sp., Dall, 1281.
mariana n. sp., Dall, 1281.
petropolitana n. sp., Dall, 1281.
sagrinata n. sp., Dall, 1281.
(Orbitella) floridana, Dall, 1281.
Monticulipora, Simpson, 4983.
Monticulipora d'Orbigny, Ulrich, 5537.
affinis, James, 2889.
andrewsii, James, 2889.
arborea n. sp., Ulrich, 5537.
arcolata, James, 2889.
aspera Ulrich, James, 2895.
asperula Ulrich, James, 2895.
briarea, James, 2889.
calceola Miller and Dyer, James, 2895.
calycula, James, 2889.
 ? *cannonensis* n. sp., Ulrich, 5537.
cincinnatiensis, James, 2889.
clavacoides James, James, 2895.
clevelandi James, James, 2895.
clintonensis James, James, 2895.
communis, James, 2889.
compressa Ulrich, James, 2895.
contexta Ulrich, James, 2895.
crassimuralis, James, 2889.
crustulata James, James, 2895.
cumulata Ulrich, James, 2895.
curvata Ulrich, James, 2895.
dawsoni Nicholson, James, 2895.
discoidea, James, 2889.
dubia, James, 2889.
dychei James, James, 2895.
eccentrica, James, 2889.
elegans, James, 2889.
falsi, James, 2889.
filiata, James, 2881.
flabellaris, Ulrich, James, 2895.
frondosa, d'Orbigny, James, 2895.
fusiformis Whitfield, James, 2895.
gelasinosa, James, 2889.

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Genera and species described—Continued.

- Monticulipora gracilis*, James, 2889.
grandis Ulrich, Ulrich, 5537.
imperfectum, James, 2889.
incompta n. sp., Ulrich, 5537.
inflecta Ulrich, James, 2895.
irregularis, James, 2881.
jamesi, James, 2889.
kentuckensis, James, 2889.
laevis Ulrich, James, 2895.
lamellosa Ulrich, James, 2895.
lens, James, 2889.
mammulata d'Orbigny, James, 2895.
meeki, James, 2889.
molesta Nicholson, James, 2895.
newberryi, James, 2889.
newportensis, James, 2889.
nodulosa, James, 2889.
ohioensis, James, 2889.
o'nealli, James, 2889.
ortoni Nicholson, James, 2895.
papilata McCoy, James, 2895.
parasitica Ulrich, James, 2895.
pavonia d'Orbigny, James, 2895.
petasiformis, James, 2889.
 var. welchi, James, 2889.
petechialis Nicholson, James, 2895.
prolifera Ulrich, James, 2895.
pustulosa Ulrich, James, 2895.
quadrata, James, 2889.
 var. subquadrata, James, 2889.
ramosa, James, 2889.
 var. dalli, James, 2889.
 rugosa, James, 2889.
selwynii Nicholson, James, 2895.
septosa, James, 2889.
simulatrix, James, 2889.
singularis Ulrich, James, 2895.
stidhami Ulrich, James, 2895.
subpulchella, James, 2889.
tuberculata Edw. and H., James, 2895.
turbinata, James, 2881.
ulrichi, James, 2889.
undulata, James, 2881.
undulata var. hemispherica n. var., James, 2881.
uniformis Ulrich, James, 2895.
varians, James, 2889.
vaupeli Ulrich, James, 2895.
verrucosa n. sp., James, 2895.
wetherbyi Ulrich, Ulrich, 5537.
whiteavesi, James, 2889.
whitfieldi, James, 2889.
wilmingtonense Ulrich, James, 2895.
winchelli James, James, 2895.
wortheni, James, 2889.
(Constellaria) Dana, James, 2896.
 polystomella Nicholson, James, 2896.
 parva Ulrich, James, 2896.
(Dekayia) Edw. and H., James, 2896.
 aspera Edw. and H., James, 2896.
 hospitals *var. neglecta* James, James, 2896.
 maculata James, James, 2896.
 pelliculata Ulrich, James, 2896.
(Fistulipora) McCoy, James, 2896.

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Genera and species described—Continued.

- Monticulipora granulifera* (Ulrich), James, 2896.
 milfordensis James, James, 2896.
 nicholsoni James, James, 2896.
 oweni James, James, 2896.
 rustica Ulrich, James, 2896.
 subcylindrica U. P. James, James, 2896.
 (?) sp., Cleland, 1012.
Moorea Jones and Kirby, Grabau, 2086.
Moorea Jones and Kirby, Ulrich, 5540.
 angularis n. sp., Ulrich, 5540.
 bicornuta Ulrich, Grabau, 2086.
 (?) *perplexa* n. sp., Ulrich, 5540.
 punctata n. sp., Ulrich, 5540.
Morea naticella, Whitfield, 6097.
Moriconia cyclotoxon Deb. and Ett., Hollick, 2696.
 cyclotoxon Deb. and Ett., Newberry, 4080.
Morosaurus, Marsh, 3701, 3702.
Morosaurus, Williston, 6248.
Morotherium gigas Marsh, Merriam, 3924.
Mortoniceras shoshonense Meek, Logan, 3554.
 shoshonense Meek, Stanton, 5191.
 ? *vermillionense*, M. and H., Herrick and Johnson, 2465.
 vermillionense M. and H., Logan, 3554.
 vermillionense M. and H., Stanton, 5191.
Mosasauridæ, Baur, 298.
Mosasauros, Williston, 6245.
 horridus, Williston, 6228, 6245.
 maximus Cope, Whitfield, 6114.
Mourlonia northviewensis n. sp., Weller, 5994.
Muhlfeldtia Bayle, Hall and Clarke, 2264.
Mulina minor Whitfield, Dall, 1265.
Mulinia Gray, Dall, 1272.
 caloosensis n. sp., Dall, 1272.
 congesta Conrad, Dall, 1272.
 lateralis Say, Dall, 1272.
 milesii Holmes, Dall, 1272.
 sapotilla n. sp., Dall, 1272.
Multicolumnastræa n. gen., Vaughan, 5734.
 cyathiformis (Duncan), Vaughan, 5734.
Murchisonia archiacana (nom. nov.), Whiteaves, 6074.
 bivittata Hall, Whiteaves, 6080.
 boylei Nicholson, Whiteaves, 6080.
 carinifera Shumard, Keyes, 3062.
 cassina n. sp., Whitfield, 6106.
 dowlingii n. sp., Whiteaves, 6074.
 indianensis n. sp., Miller and Gurley, 4002.
 hammelli n. sp., Miller, 3995.
 logani Hall, Whiteaves, 6080.
 longispira Hall, Whiteaves, 6080.
 macrospira Hall, Whiteaves, 6080.
 major Hall, Keyes, 3062.
 marcouiana Geinitz, Girty, 2037.
 melaniaformis Shumard, Keyes, 3062.
 mohawkensis n. s., Cleland, 1012.
 quadrincincta Win., Weller, 6006.
 terebrata White, Keyes, 3062.
 turritiformis Hall, Whiteaves, 6080.
 sp., Clarke, 976.
 sp., Calvin, 684.

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- Murex chrysostoma* Gray var. *chipolana* Dall, Dall, 1259.
elegantissimus n. sp., Aldrich, 73.
fusates n. sp., Harris, 2307.
marksi n. sp., Harris, 2305, 2311.
mississippiensis Conrad, Dall, 1259.
morulus Con., Harris, 2311.
shilohensis, Whitfield, 6101.
shilohensis var. *burnsi* n. var., Whitfield, 6101.
 (*Chicoreus*?) *burnsii* Whitfield, Dall, 1259.
micromeris n. sp., Dall, 1259.
 (*Odontopolys*) *compsorhytis* Gabb, Harris, 2307.
 (*Pteronotus*) *burnsii* n. sp., Aldrich, 71.
lavavaricosus n. sp., Whitfield, 6097.
matthewsensis, Harris, 2310.
textilis Gabb, Dall, 1259.
 (*Pterorhytis*) *conradi*, Dall, 1259.
umbifer Conrad, Dall, 1259.
Muricidea floridana Conrad, Dall, 1259.
imbricatula, Harris, 2316.
multangula Philippi, Dall, 1259.
spinulosa Heilprin, Dall, 1259.
Musophyllum complicatum Lx., Knowlton, 3255.
Mustela, *diluviana* Cope, Cope, 1104.
Mya arenaria Linne, Dall, 1259.
arkansana n. sp., Weller, 5986.
producta Conrad, Dall, 1259.
truncata Linne, Dall, 1259.
Myalina? *exasperata* n. sp., Beede, 394.
kansasensis Shumard, Keyes, 3062.
pteriaformis, Lane, 3400.
recurvirostris Meek and Worthen, Keyes, 3062.
subquadrata Shumard, Keyes, 3062.
swallowi McChesney, Keyes, 3062.
trigonalis n. sp., Whiteaves, 6074.
Myas rigefactus n. sp., Scudder, 4900.
umbrarum n. sp., Scudder, 4900.
Mycetophætus n. gen., Scudder, 4889.
intermedius, Scudder, 4889.
Mycetoporus demursus n. sp., Scudder, 4900.
Myconcha americana n. sp., Stanton, 5199.
Myelodactylus Hall, Weller, 6002.
bridgeportensis Miller, Weller, 6002.
gorbyi n. sp., Miller, 3992.
Myclodactylus, Bather, 294.
Myclopteris topekensis n. sp., Penhallow, 4337.
Mylacridæ? sp., Scudder, 4898.
Mylacris ampla n. sp., Scudder, 4898.
anthracophila, Scudder, 4898.
antiqua, Scudder, 4898.
elongata n. sp., Scudder, 4898.
gurleyi n. sp., Scudder, 4898.
packardii, Scudder, 4892, 4898.
Myliobatis copeanus, n. sp., Clark, 904, 906.
leidyi, Hay, 2381.
Myllita d'Orbigny and Récluz, Dall, 1281.
Myolodon, Case, 769.
 ? *harlanii* Owen, Cope, 1104.
 ? *sodalis* Cope, Cope, 1087.
Mylohyus Cope, Cope, 1104.

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- Mylohyus nasutus* Leidy, Cope, 1104.
pennsylvanicus Leidy, Cope, 1104.
tetragonus Cope, Cope, 1104.
Myolodon? *harlani* Leidy, Williston, 6228.
harlanii Owen, Cope, 1098.
renidens n. sp., Cope, 1098.
sulcidens n. sp., Cope, 1098.
Myrica acuta Hollick n. sp., Newberry, 4080.
aspera n. sp., Lesquereux, 3470.
bolanderi? Lx., Knowlton, 3255.
cinnamoniifolia n. sp., Newberry, 4080.
emarginata Heer, Lesquereux, 3470.
emarginata Heer (?), Newberry, 4080.
fenestrata n. sp., Newberry, 4080.
 (?) *idahoensis* n. sp., Knowlton, 3246.
lamarensis n. sp., Knowlton, 3255.
lanceolata n. sp., Knowlton, 3246.
longa Heer, Hollick, 2696.
longa Heer, Lesquereux, 3470.
newberryana Hollick, n. sp., Newberry, 4080.
obliqua n. sp., Lesquereux, 3470.
parvula Heer, Newberry, 4080.
præmissa Lesquereux sp., Knowlton, 3232.
raritanensis Hollick n. sp., Newberry, 4080.
schimperii n. sp., Lesquereux, 3470.
torreyi Lx., Knowlton, 3264.
 (?) *trifoliata* Newb. n. sp., Newberry, 4083.
wardii n. sp., Knowlton, 3255.
 (*Comptonia*) *cuspidata* (Lesquereux), Dawson, Knowlton, 3232.
 ? sp., Knowlton, 3264.
Myrsine borealis Heer, Newberry, 4082.
crassa n. sp., Lesquereux, 3470.
elongata Newb., Hollick, 2696.
elongata n. sp., Newberry, 4080.
oblongata Hollick n. sp., Newberry, 4080.
Myrsinites? *gaudina* Lesq., Lesquereux, 3470.
Myrtophyllum warderi n. sp., Lesquereux, 3470.
 (*Eucalyptus*?) *geinitzi* Heer(?), Hollick, 2695.
Myres ferruginea, Beecher, 366.
Mysia perilis, Whitfield, 6101.
Mysis, Beecher, 366.
Mytilarca fibristriata (W. & W.), Weller, 6006.
inflata n. sp., Whiteaves, 6074.
jessica n. sp., Miller and Gurley, 4002.
mytiliformis n. sp., Foerste, 1835.
occidentalis (W. & W.), Weller, 6006.
percarinata, Whitfield, 6099.
 ? sp., Girty, 2039.
Mytiloconcha incrassata, Whitfield, 6101.
Mytilus (L.) Bolten, Dall, 1272.
conradinus Orbigny, Dall, 1272.
dichotomus n. sp., Cooper, 1071.
edulis Linné, Dall, 1272.
pandionis n. sp., Dall, 1272.
 (*Hormomya*) *exustus* Linné, Dall, 1272.
hamatus Say, Dall, 1272.
 (*Mytiloconcha*) *incurvus* Conrad, Dall, 1272.
Nagelopsis angustifolia Fontaine?, Fontaine, 1850.

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- Nageiopsis longifolia Fontaine, Fontaine, 1850.
 Naiadites, Dawson, 1441.
 Naiadites, Hind, 2600.
 Nanno, Clarke, 944.
 aulema n. sp., Clarke, 953.
 aulema, Hyatt, 2820.
 Nanomeryx caudatus n. gen. et sp., Marsh, 3690.
 Nanopus caudatus n. gen. et sp., Marsh, 3686.
 Nanosaurus Marsh, 3701.
 Naosaurus, Case, 768.
 Narthecoceras crassiphonatum, Hyatt, 2820.
 simpsoni, Hyatt, 2820.
 Nassa bidentati Emmons, Dall, 1259.
 caloosaensis n. sp., Dall, 1259.
 cancellata Lea, Harris, 2316.
 exilis Con., Harris, 2315.
 galvestonensis n. sp., Harris, 2309.
 harpuloides Conrad, Dall, 1259.
 johnsoni n. sp., Dall, 1259.
 lapenotierei n. sp., Dall, 1259.
 newcombei n. sp., Merriam, 3919, 3923.
 scalaspira Conrad, Dall, 1259.
 trivigalvesta n. sp., Harris, 2309.
 Nassarina glypta Bush., Dall, 1259.
 Natica abyssina, Whitfield, 6097.
 abyssina Morton, Whitfield, 6097.
 alabamiensis, Harris, 2315.
 alticallosa n. sp., Dall, 1259.
 aperta Whitf., Harris, 2315, 2316.
 cliftonensis n. sp., Clark, 904, 906.
 eminula, Harris, 2310, 2315.
 eminula Har. var., Harris, 2316.
 globulella n. sp., Whitfield, 6097.
 humilis n. sp., Cragin, 1115.
 limula, Harris, 2310.
 magne-umbilicata Lea, Harris, 2316.
 mediavia n. sp., Harris, 2310, 2311.
 perspecta, Harris, 2310.
 reversa, Harris, 2310.
 saffordi n. sp., Harris, 2310.
 striaticostata n. sp., Cragin, 1115.
 (Cryptonatica) floridana n. sp., Dall, 1259.
 (Giroides) alabamiensis, Harris, 2310.
 (Lacunaria) alabamiensis Whitf., Harris, 2316.
 erecta Whitf., Harris, 2316.
 semilunata, Harris, 2316.
 (Lunatia) hemicyrpta, Whitfield, 6101.
 (Lunatia) heros, Whitfield, 6101.
 (Lunatia) tuomeyi n. sp., Whitfield, 6101.
 (Neverita) onusta Whitf., Harris, 2316.
 (Polinices) onusta, Harris, 2310.
 (Sigaticus) clarkiana Ald., Harris, 2316.
 Naticopsis McCoy, Keyes, 3062.
 depressa Win., Weller, 6006.
 gigantea Hall and Whitfield, Girty, 2039.
 inornata n. sp., Whiteaves, 6074.
 manitobensis n. sp., Whiteaves, 6074.
 ortoni, Whitfield, 6099.
 ventricosa (Norwood and Pratten), Keyes 3062.
 ziczac, Whitfield, 6099.
 ? (Isonema) humilis Meek, Girty, 2039.

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Genera and species described—Continued.

- Naticopsis (?) sp., Girty, 2038.
 Nauplius, Beecher, 366.
 Nautilus Breynius, Grabau, 2086.
 Nautilus, Hyatt, 2819, 2820.
 bryani, Whitfield, 6097.
 burkarti n. sp., Aguilera, 57.
 cookana n. sp., Whitfield, 6097.
 dekayi, Whitfield, 6097.
 elegans Sowerby, Stanton, 5191.
 forbesianus McChesney, Keyes, 3062.
 magister Hall, Grabau, 2086.
 missouriensis Swallow, Keyes, 3062.
 occidentalis Swallow, Keyes, 3062.
 ortoni, Whitfield, 6099.
 pauper, Whitfield, 6099.
 perkinsi n. sp., Whitfield, 6106.
 ponderosus White, Keyes, 3062, 3105.
 texanus Shum., Cragin, 1115.
 toddi n. sp., Miller, 3995.
 washitanus n. sp., Cragin, 1118.
 winslowi Meek and Worthen, Keyes, 3062.
 (Centroceras) marcellensis (Vanuxem), Grabau, 2086.
 (Cymatoceras) carlottensis n. sp., Whiteaves, 6095a.
 (Gyroceras ?) subquadrangularis, Whitfield, 6099.
 (Temnocheilus) spectabitis, Whitfield, 6099.
 sp., Clark, 906.
 Nebalia geoffroyi, Beecher, 366.
 Nebria occlusa n. sp., Scudder, 4900.
 paleomelas, Scudder, 4896.
 Negundo triloba Newb., Newberry, 4083.
 Neithea quinquecostata? (Sow.) Mort., Harris, 2315.
 Nelumbo intermedia n. sp., Knowlton, 3264.
 laramiensis n. sp., Hollick, 2674.
 ? sp., Knowlton, 3264.
 Nemataxis, Simpson, 4983.
 Nematophyton crassum, Penhallow, 4335.
 Nematopora, Simpson, 4983.
 Nematopora Ulrich, Ulrich, 5537.
 conferta Ulrich, Ulrich, 5537.
 delicatula Ulrich, Ulrich, 5537.
 granosa Ulrich, Ulrich, 5537.
 ovalis Ulrich, Ulrich, 5537.
 Nemodon sulcatus Evans and Shumard, Herrick and Johnson, 2465.
 sulcatus Evans and Shumard (sp.) ?, Stanton, 5191.
 Neobolus Waagen, Hall and Clarke, 2260.
 Neolenus, n. gen., Matthew, 3788.
 granulatus, n. sp., Matthew, 3788.
 serratus, Roem. sp., Matthew, 3788.
 Neothanes testus, Scudder, 4900.
 Nepheliospongia n. gen., Clarke, 974.
 avocensis n. sp., Clarke, 974.
 typica n. sp., Clarke, 974.
 Nephriticeras, Hyatt, 2819.
 acraeum, Hyatt, 2819.
 bucinum, Hyatt, 2819.
 cavum, Hyatt, 2819.
 juvenis, Hyatt, 2819.
 liratum, Hyatt, 2819.

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- Nephriticeras majester*, Hyatt, 2819.
 maximum, Hyatt, 2819.
 oriens, Hyatt, 2819.
 subliratum, Hyatt, 2819.
Neptunea constricta, Harris, 2310.
Neptunella mullicaensis n. sp., Whitfield, 6097.
Nerea cf. *forojuliensis* Pirona, Boehm., 503a.
Nercis (?) *incognita* n. sp., Cragin, 1116.
Nerinea Dispar (?) Gabb, Whiteaves, 6085.
Nerinea hicoloriensis n. sp., Cragin, 1115.
 pellucida n. sp., Cragin, 1115.
 volana n. sp., Cragin, 1115.
Nerita tampaensis n. sp., Dall, 1259.
Neritina apparata n. sp., Cragin, 1115.
 chipolana n. sp., Dall, 1259.
 incompta White, Stanton, 5191.
 naticiformis White, White, 6086.
 pisum Meek, Stanton, 5191.
 stantoni n. sp., White, 6036.
 wyomingensis n. sp., Stanton, 5206.
 (*Theodoxus*?) *edentula* n. sp., Dall, 1259.
 (*Velatella*) *patelliformis* Meek, Stanton, 5191.
Neritoma marcouana n. sp., Cragin, 1118.
Neritopsis biangulatus Shum., Cragin, 1115.
 tramitensis n. sp., Cragin, 1115.
Neumayria walcotti Hill, Hill, 2539.
Neuropteris Brongniart, 1822, White, 6050.
 aldrichi (Lx.), White, 6052.
 angustifolia Brongn., White, 6040.
 caudata n. sp., White, 6040, 6049.
 civica n. sp., Dawson, 1448.
 cordata, White, 6040.
 dilatata (L. and H.) Lx., White, 6040, 6050.
 elrodi Lx., White, 6052.
 fasciculata Lx., White, 6040.
 fimbriata Lx., White, 6040.
 flexuosa Sternb., White, 6040.
 gigantea Sternb., White, 6052.
 griffithii Lx., White, 6049.
 harrisi n. sp., White, 6049.
 hirsuta Lx., White, 6040.
 jenneyi n. sp., White, 6040, 6049.
 lunata n. sp., White, 6052.
 missouriensis Lx., White, 6049, 6050.
 var. nervosa n. var., White, 6049.
 ovata Hoffm., White, 6052.
 pocahontas, n. sp., White, 6052.
 var. inaequalis n. var., White, 6052.
 var. pentias n. var., White, 6052.
 rarinervis Bumb., White, 6040.
 scheuchzeri Hoffm., White, 6040, 6049, 6050.
 smithii Lx., White, 6052.
 tennesseana Lx. Mss., White, 6052.
 tenuifolia (Schloth.) Sternb., White, 6040.
 cf. *trichomanoides* (Brongn.) Lx., White, 6040.
Neverita duplicata, Whitfield, 6101.
Newberria Hall, Hall and Clarke, 2261a, 2264.
Nicholsonella, Simpson, 4093.
Nicholsonella Ulrich, Ulrich, 5537.
 laminata n. sp., Ulrich, 5537.
 ponderosa ? Ulrich, Ulrich, 5537.
 pulehra n. sp. Ulrich, 5537.
Nileus striatus n. sp., Whitfield, 6106.

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- Nileus vigilans*, Meek and Worthen (sp.), 1875, Clarke, 952.
Nilssonigibbsii (Newb.), Hollick, Newberry, 4083.
Nipterella paradoxica (Billings) Hinde, Rauff, 4548.
Niso lineata Conrad, Dall, 1259.
 umbilicata Lea, Harris, 2316.
 willcoxiana Dall, Dall, 1259.
 sp., Vaughan, 5722.
Nitidula prior n. sp., Scudder, 4900.
Nodisaurus, Marsh, 3701.
Nodosaria aculeata, Bagge, 148.
 acuminata (Reuss), Bagge, 150.
 adolphina (d'Orbigny), Chapman, 870.
 adolphinula (d'Orbigny), Bagge, 150.
 affinis, Bagge, 148.
 annulata Reuss, Bagge, 150.
 bacillum, Bagge, 148.
 communis (d'Orbigny), Bagge, 148, 150.
 consobrina (d'Orbigny), Bagge, 148, 150.
 var. emaciata Reuss, Bagge, 148, 150.
 farcimen (Soldani), Bagge, 148, 150.
 farcimen Reuss (after Soldani), Chapman, 870.
 filiformis d'Orbigny, Bagge, 150.
 indifferens (Reuss), Bagge, 150.
 inornata (d'Orbigny), Bagge, 150.
 laevigata d'Orbigny, Bagge, 150.
 longiscata d'Orbigny, Bagge, 150.
 longiscata d'Orbigny, Chapman, 870.
 multicostata (d'Orbigny), Bagge, 150.
 nitida d'Orbigny, Bagge, 150.
 obliqua, Bagge, 148, 150.
 obliqua (Linné), Chapman, 870.
 pauperata (d'Orbigny), Bagge, 150.
 pauperata (d'Orbigny), Chapman, 870.
 polygona Reuss, Bagge, 150, 144.
 radicula (Linné), Bagge, 150.
 radicula (Linné), Chapman, 870.
 raphanus (Linné), Bagge, 150.
 roemeri (Neuguboren), Bagge, 150.
 rotundata (Reuss), Bagge, 150.
 scabra (Reuss), Bagge, 150.
 soluta Reuss, Chapman, 870.
 spinulosa (Montagu), Bagge, 150.
 vertebralis (Batsch), Bagge, 150.
 williamsi, Bagge, 150.
 zippei Reuss, Bagge, 144, 150.
Noedyceras Hyatt, 2819.
Neggerathipsis robbinsii n. sp., Dawson, 1436.
Noetlingia Hall, Hall and Clarke, 2264.
Nonaretus serus n. sp., Scudder, 4900.
Nonionina affinis, Bagge, 148.
 boueana, Bagge, 148.
 boueana d'Orbigny, Chapman, 870.
 communis d'Orbigny, Chapman, 870.
 depressula, Bagge, 148.
 scapha, Bagge, 148.
 scapha Fichtel and Moll. sp., Woodward and Thomas, 6433.
Nordenskiöldia borealis Heer, Newberry, 573a, 4083.
 pompilioides (Fichtel and Mo.l.), Chapman, 870.

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- Nordenskiöldia umbilicula* (Montagu), Chapman, 870.
Norella Bittner, Hall and Clarke, 2264.
Nosotetocus n. gen., Scudder, 4889.
debilis n. sp., Scudder, 4900.
marcovi, Scudder, 4889, 4900.
vespertinus n. sp., Scudder, 4900.
Nostoceras n. gen., Hyatt, 2819.
helicinum, Hyatt, 2819.
stantoni, Hyatt, 2819.
 var. *aberrans*, Hyatt, 2819.
 var. *prematum*, Hyatt, 2819.
Nothocyon n. gen., Wortman and Matthew, 6496.
geismarianus (Cope), Wortman and Matthew, 6496.
latidens (Cope), Wortman and Matthew, 6496.
lemur (Cope), Wortman and Matthew, 6496.
parvidens (Mivart), Wortman and Matthew, 6496.
urostictus (Mivart), Wortman and Matthew, 6496.
Nothopus kingii n. sp., Scudder, 4900.
Nothosaurus, Case, 768.
Notothyris (?) Waagen, Hall and Clarke, 2264, 2266.
Nucleatula Bittner, Hall and Clarke, 2264.
Nucleocrinus greenei n. sp., Miller and Gurley, 3997a.
venustus n. sp., Miller and Gurley, 3997a.
Nucleospira Hall, Grabau, 2086.
Nucleospira Hall, Hall and Clarke, 2261, 2264.
concinna Hall, Grabau, 2086.
indianensis n. sp., Miller, 3992.
obesa n. sp., Rowley, 4677a.
pisiformis Hall, Keyes, 3062.
rotundata, Whitfield, 6099.
Nucula Lamarck, Dall, 1272.
Nucula Lamarck, Grabau, 2086.
bellistriata, Conrad, var. *Parvula*, n. var., Clarke, 976.
catherina n. sp., Cragin, 1116.
catherina, Stanton, 5197.
chickasaensis n. sp., Cragin, 1118.
chipolana n. sp., Dall, 1272.
coloradoensis n. sp., Stanton, 5191.
coloradoensis Stanton, Herrick and Johnson, 2465.
concentrica, Say, 4813.
corbuliformis Hall, Grabau, 2086.
gabbi n. sp., Stanton, 5199.
hornbyensis nom. prov., Whiteaves, 6085.
kayseri n. sp., Clarke, 976.
lævis, Say, 4873.
magnifica Conrad, Clark, 906.
magnifica Con., Harris, 2313.
manitobensis n. sp., Whiteaves, 6074.
mediavia n. sp., Harris, 2310.
obliqua, Say, 4813.
ovula, Harris, 2310, 2312.
proxima, Whitfield, 6101.
proxima Say, Dall, 1272.
prunicola n. sp., Dall, 1272.

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- Nucula pulchella* n. sp., Beede and Rogers, 396.
richardsoni n. sp., Whiteaves, 6085.
shaleri Dall, Dall, 1272.
sinaria n. sp., Dall, 1272.
stella, Lane, 3400.
storrsi n. sp., Stanton, 5199.
taphria n. sp., Dall, 1272.
ventricosa Hall, Keyes, 3062.
Nuculana-arata (Hall), Girty, 2037.
bellistriata Stevens, Keyes, 3062.
Nuculites Conrad, Grabau, 2086.
branneri n. sp., Clarke, 976.
ererensis, Hartt and Rathbun, Clarke, 976.
fallax n. sp., Cooper, Lane, 3400.
nyssa, Hall, var. *Majora*, n. var., Clarke, 976.
nyssa Hall, Grabau, 2086.
oblongatus Hall, Grabau, 2086.
smithi n. sp., Clarke, 976.
subcuneatus n. sp., Clarke, 946.
tryqueter Conrad, Grabau, 2086.
(Cleidophorus) ferrugineum n. sp., Foerste, 1835.
Numitor n. gen., Scudder, 4890.
claviger, Scudder, 4890.
Nyassa arguta, Whitfield, 6099.
Nyctodactylus, Williston, 6220.
Nyctopora Nicholson, Lambe, 3374.
billingsi Nicholson, Lambe, 3374.
Nyssa (?) *cuneata* Newb., Newberry, 4083.
vetusta Newb., Newberry, 4083.
Obeliscus conellus, n. sp., Whitfield, 6097.
Obolella Billings, Hall and Clarke, 2260.
Obolella Billings, Matthew, 3789, 3790.
atlantica Walcott, Burr, 666.
atlantica Walcott, Grabau, 2092.
atlantica Walc., Matthew, 3789.
 cf. *chromatica* Bill., Matthew, 3790.
crassa (Hall), Grabau, 2092.
gamagai n. sp., Hobbs, 320.
loperi n. sp., Walcott, 5813.
mickwitzii n. sp., Walcott, 5813.
namouna n. sp., Walcott, 5813.
nitida Ford?, Matthew, 3761.
pandemia n. sp., Walcott, 5813.
rhea n. sp., Walcott, 5813.
(Linnarssonella) pretiosa Billings, Dawson, 1452.
 sp., Burr, 666.
 (?) sp., Grabau, 2092.
Obolus Eichwald, Hall and Clarke, 2260.
Obolus Eichwald, Walcott, 5813.
anceps n. sp., Walcott, 5813.
pristinus n. sp., Matthew, 3761.
(Botsfordia) pulchra, Matthew, 3751, 3761.
(Lingulella) argutus n. sp., Walcott, 5813.
auga n. sp., Walcott, 5813.
bellus n. sp., Walcott, 5813.
bellulus n. sp., Walcott, 5813.
desideratus n. sp., Walcott, 5813.
dubius n. sp., Walcott, 5813.
elli n. sp., Walcott, 5813.
euglyphus n. sp., Walcott, 5813.
franklinensis n. sp., Walcott, 5813.

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Genera and species described—Continued.

- Obolus* (*Lingulella*) *hayesi* n. sp., Walcott, 5813.
 (*Lingulella*) *helenae* n. sp., Walcott, 5813.
ino sp., Walcott, 5813.
lambornii var. *minimus* n. var., Walcott, 5813.
leos n. sp., Walcott, 5813.
lineolatus n. sp., Walcott, 5813.
mosia var. *osceola* n. var., Walcott, 5813.
nanno n. sp., Walcott, 5813.
oweni n. sp., Walcott, 5813.
phaon n. sp., Walcott, 5813.
pogonipensis n. sp., Walcott, 5813.
prindlei n. sp., Walcott, 5813.
punctatus n. sp., Walcott, 5813.
rogersi n. sp., Walcott, 5813.
rotundatus n. sp., Walcott, 5813.
similis n. sp., Walcott, 5813.
sinoc n. sp., Walcott, 5813.
tarpa n. sp., Walcott, 5813.
willisi n. sp., Walcott, 5813.
zetus n. sp., Walcott, 5813.
 (*Lingulepsis*) *Hall*, Walcott, 5816.
acuminatus var. *meeki*, Walcott, 5816.
Octacodon valens n. gen. et sp., Marsh, 3682, 3689.
Oculina alabamensis n. sp., Vaughan, 5735.
aldrichi n. sp., Vaughan, 5735.
harrisi n. sp., Vaughan, 5735.
mississippiensis (Conrad), Vaughan, 5735.
singleyi n. sp., Vaughan, 5735.
 (?) *smithi* n. sp., Vaughan, 5735.
vicksburgensis (Conrad), Vaughan, 5735.
Odontopsis elegans (Agassiz), Clark, 906.
Odontofusus n. gen., Whitfield, 6097.
medians n. sp., Whitfield, 6097.
rostellaroides n. sp., Whitfield, 6097.
slacki, Whitfield, 6097.
typicus n. sp., Whitfield, 6097.
Odontoperis ? *bradleyi* Lx., White, 6050.
wortheni Lx., White, 6049.
Odontophyllum n. gen., Simpson, 4984.
Odontopleura parvula Walcott (sp.), 1877, Clarke, 952.
Odontostomia insignifica n. sp., Aldrich, 74.
Odontostornia (*Syrnola*) *attenuata* n. sp., Dall, 1259.
caloosaeensis n. sp., Dall, 1259.
Odontotrypa, Simpson, 4983.
Oecotraustes denticulata n. sp., Hyatt, 2818.
Oehlertella n. subgen., Hall and Clarke, 2260.
Ogygia, Beecher, 366.
Ogygia Brongniart, Matthew, 3788.
 (*Ogygopsis*) *klotzi* Roem., Matthew, 3788.
Olcostephanus cepoides Whiteaves, Whiteaves, 6095a.
lindgreni n. sp., Hyatt, 2818.
af. portlandicus de Loriol, Aguilera, 57.
potosinus n. sp., Aguilera, 57.
 (*Astieria*) *deansii* n. sp., Whiteaves, 6077, 6095a.
 (*Polyptychites*) *trichotomus* n. sp., Stanton, 5199.
 (*Sibirskites*) *mutabilis* n. sp., Stanton, 5199.

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Genera and species described—Continued.

- Oldhamia* Waagen, Hall and Clarke, 2260, 2261a.
Oldhamia fruticosa Hall, Whitfield, 6102.
 (*Murchisonites*) *occidens* n. p., Walcott, 5800.
Olenellus thompsoni (Hall) ?, Weller, 6004.
walcotti (Shaler and Foerste), Grabau, 2092.
 (*Holmia*) *broggeri* Walcott, Burr, 666.
 (*Holmia*) *broggeri* Walcott, Grabau, 2092.
 (*Mesanoicis*) *asaphoides*, Beecher, 366.
 (*Mesanoicis*) *asaphoides* (Emmons) (?), Grabau, 2092.
 (*Mesanoicis*) *asaphoides* Emmons sp., Burr, 666.
 sp., Burr, 666.
 sp., Grabau, 2092.
Oligocarpia alabamensis Lx., White, 6052.
cf. gutbieri Goepp, White, 6050.
missouriensis n. sp., White, 6050.
Oligoporus bellulus n. sp., Miller and Gurley, 3997a.
blairi n. sp., Miller and Gurley, 3997a.
coreyi, Jackson, 2871.
coreyi Meek and Worthen, Keyes, 3077.
danæ, Jackson, 2871.
danæ (Meek and Worthen), Keyes, 3061, 3077.
 ? *minutus* n. sp., Beede, 394.
missouriensis n. sp., Jackson, 2871.
mutatus n. sp., Keyes, 3061, 3077.
nobilis Meek and Worthen, Keyes, 3077.
parvus Hambach, Keyes, 3077.
sulcatus n. sp., Miller and Gurley, 3997a.
Oliva carolinensis, Whitfield, 6101.
plicata n. sp., Guppy and Dall, 2214.
reticularis, Harris, 2309.
Olivella galvestonensis n. sp., Harris, 2309.
indivisa n. sp., Guppy and Dall, 2214.
lata n. sp., Dall, 1259.
mediavia n. sp., Harris, 2310, 2316.
mutica Say, Dall, 1259.
subtexana n. sp., Harris, 2309.
Ollacrinus papillatus, Whitfield, 6098.
Omileus evanidus, Scudder, 4890.
Omospira n. gen., Ulrich and Scofield, 5541.
alexandra Billings, Ulrich and Scofield, 5541.
latifolnnota n. sp., Ulrich and Scofield, 5541.
Omphalocrinus manitobensis, Whiteaves, 6074.
Omphalophloios n. gen., White, 6046.
cyclostigma (Lx.) D. W., White, 6050.
Omphalotrochus springvalensis (White), Keyes, 3062.
Omphyma eriphyle Billings sp., Lambe, 3375.
Onchus rectus n. sp., Eastman, 1605.
Oncocera carveri n. sp., Clarke, 953.
douglassi n. sp., Clarke, 953.
exiguum Billings, 1860, Clarke, 953.
lycus Hall, 1861, Clarke, 953.
magnum Whiteaves, Whiteaves, 6087.
 (*magnum* ? var.) *intermedium*, Whiteaves, 6087.

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Genera and species described—Continued.

- Oncocera minnesotense* n. sp., Clarke, 953.
pandion Hall, 1861, Clarke, 953.
whiteavesii Miller, Whiteaves, 6087.
- Onoceras abruptum*, Whitfield, 6102.
alcens, Whitfield, 6102.
lycus, Whitfield, 6102.
pandion, Whitfield, 6102.
plebeium, Whitfield, 6102.
- Oncodoceras* n. gen., Hyatt, 2816.
Oncosella catinum n. sp., Rauff, 4548.
Onochodus sigmoides Newb., Eastman, 1605.
Onoclea minima n. sp., Knowlton, 3255.
Onoclea sensibillius fossilis Newb., Newberry, 4083.
- Onychaster asper* n. sp., Miller, 3992.
confragosus n. sp., Miller, 3992.
demissus n. sp., Miller, 3992.
- Onychochilus nitidulus* n. sp., Clarke, 946.
Onychocrinus cantonensis n. sp., Miller and Gurley, 3991.
monroensis (Meek and Worthen), Keyes, 3061.
parvus n. sp., Miller and Gurley, 3997a.
pulaskiensis n. sp., Miller and Gurley, 3997d.
ulrichi n. sp., Miller and Gurley, 3991.
- Onychodectes* Cope, Wortman, 6492.
rarus n. sp., Osborn and Earle, 4191.
tissonensis Cope, Osborn and Earle, 4191.
- Opali*, see *Scala* (*Opalia*) H. and A. Adams; Dall, 1259.
- Operculina complanata* DeFrance sp., Woodward and Thomas, 6433.
 var. *granulosa* Leymerie, Woodward and Thomas, 6433.
- Ophiderpeton*, Case, 767.
- Ophidioceras*, Hyatt, 2819.
rudens, Hyatt, 2819.
tener, Hyatt, 2819.
tessallatum, Hyatt, 2819.
- Ophileta complanata* Vanuxem, Cleland, 1012.
discus n. sp., Cleland, 1012.
- Ophilelina* n. gen., Ulrich and Scofield, 5541.
angularis n. sp., Ulrich and Scofield, 5541.
sublaxa n. sp., Ulrich and Scofield, 5541.
- Ophioglossum granulatum* Herr, Newberry, 4080.
- Ophioglypha bridgerensis* (Morton), Clark, 892.
texana Clark, Clark, 892.
- Ophryastes grandis*, Scudder, 4890.
petrarum, Scudder, 4890.
- Ophryastites* n. gen., Scudder, 4890.
absconsus, Scudder, 4890.
cinereus, Scudder, 4890.
digressus, Scudder, 4890.
disperititus, Scudder, 4890.
- Opis californica* n. sp., Stanton, 5199.
texana n. sp., Cragin, 1115.
triangulata Cooper (Stanton), Cooper, 1072.
- Opisthoptera* Meek, Ulrich, 5535.
alternata n. sp., Ulrich, 5535.
ampla n. sp., Ulrich, 5535.
extenuata n. sp., Ulrich, 5535.

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Genera and species described—Continued.

- Opisthoptera fissicosta* Ulrich, 5535.
laticostata n. sp., Ulrich, 5535.
notabilis n. sp., Ulrich, 5535.
obliqua n. sp., Ulrich, 5535.
- Oppelia* ? sp. Stanton, 5206.
- Oracanthus lineatus* n. sp., Newberry, 4082.
pugilunculus St. J. and W., Newberry, 4082.
vetustus, Newberry, 4082.
- Oracodon conulus* n. sp., Marsh, 3671.
- Orbicula* Sowerby, Hall and Clarke, 2260.
- Orbiculoidea d'Orbigny*, Grabau, 2086.
- Orbiculoidea Davidson*, Hall and Clarke, 2260.
- Orbiculoidea d'Orbigny*, Hall and Clarke, 2260.
- Orbiculoidea d'Orbigny*, Winchell and Schuchert, 6319.
batesvillensis n. sp., Weller, 5986.
berzeri, Hall and Clarke, 2268.
capax (White), Weller, 6006.
doria Hall, Grabau, 2086.
hartti n. sp., Clarke, 976.
herzeri n. sp., Hall and Clarke, 2260.
lamellosa Hall ?, Winchell and Schuchert, 6319.
lodiensis Vanuxem, Grabau, 2086.
media Hall, Grabau, 2086.
numulus n. sp., Hall and Clarke, 2260.
numulus, Hall and Clarke, 2268.
 (*Schizotreta*) *ovalis* n. sp., Hall and Clarke, 2060, 2268.
 sp., Girty, 2035.
- Orbulina* ? *intermedia* n. sp., Matthew, 3761.
 ? *ingens* n. sp., Matthew, 3761.
ovalis n. sp., Matthew, 3761.
univerda, McClung, 3840.
universa d'Orbigny, Woodward and Thomas, 6433.
- Orchestes languidulus*, Scudder, 4890.
- Oreodon*, Wortman, 6487.
bullatus Leidy, Osborn and Wortman, 4189.
culbertsonii Leidy, Osborn and Wortman, 4189.
culbertsonii Leidy, Stewart, 5236.
gracilis Leidy, Osborn and Wortman, 4189.
- Oriskania* n. gen., Hall and Clarke, 2261a.
navicella, Hall and Clarke, 2261a, 2268.
sinuati n. sp., Clarke, 971.
- Ornithochierus*, Case, 768.
- Ornithomimus*, Marsh, 3701, 3702.
sedens, n. sp., Marsh, 3672.
- Ornithostoma*, Williston, 6224, 6231.
ingens, Williston, 6234.
- Ornithotarsus immanis* Cope, Woolman, 6474.
- Orodus basilis* n. sp., Cope, 1093.
- Oromeryx* (?) Marsh, Scott, 4884.
plicatus n. sp., Marsh, 3690.
- Orophocrinus stilliformis* (Owen and Shumard), Keyes, 3061.
whitei, Whitfield, 6098.
- Orthaulax*, see *Rostellaria* (*Orthaulax*) Gabb, Dall, 1259.
- Orthidium* n. gen., Hall and Clarke, 2260.
- Orthis Dalman*, Hall and Clarke, 2260.
- Orthis Dalman emend* Hall, Winchell and Schuchert, 6319.
amena N. H. Winchell, Winchell and Schuchert, 6319.

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- Orthis benedicti* n. sp., Miller, 3992.
burlingtonensis Hall, Keyes, 3062.
callactis, Dalman, var. *Amazonica*, n. var., Clarke, 976.
carausii, Matthew, 3746.
corpulenta Sardeson, Sardeson, 4800.
electra Bill., var. *major*, n. var., Matthew, 3746.
levis n. var., Matthew, 3746.
emacerata Hall, Keyes, 3062.
emacerata Hall, Sardeson, 4800.
euryone Bill., var., Matthew, 3746.
fausta var. *squamosa*, n. var., Foerste, 1835.
fiabellites var. *spania*, Hall and Clarke, 2268.
futilis n. sp., Sardeson, 4800.
glypta n. sp., Hall and Clarke, 2261a, 2263.
 (?) *glypta*, Hall and Clarke, 2268.
holstoni Safford, Hall and Clarke, 2260.
 (?) *holstoni*, Hall and Clarke, 2268.
ignota n. sp., Sardeson, 4800.
iowensis Hall, Keyes, 3062.
iowensis?, Lane, 3400.
meedsi, Winchell and Schuchert, 6298.
meedsi var. *germana*, Winchell and Schuchert, 6298.
meeki S. A. Miller, Sardeson, 4800.
menaphe (Hicks?) var., Matthew, 3746.
multisecta Meek, Sardeson, 4800.
orthambonites (Pander), Matthew, 3746.
panderiana, Hall and Clarke, 2268.
pecosii Marcon, Keyes, 3062.
porrecta n. sp., Sardeson, 4800.
proavita, Winchell and Schuchert, 6298.
 ? *remnicha* Winchell, Walcott, 5816.
rogata Sardeson, Sardeson, 4800.
saffordi n. sp., Hall and Clarke, 2260.
 (?) *saffordi*, Hall and Clarke, 2268.
 (?) *sandbergi* Winchell, Walcott, 5816.
subæquata Conrad, Winchell and Schuchert, 6319.
circularis N. H. Winchell, Winchell and Schuchert, 6319.
gibbosa Billings, Winchell and Schuchert, 6319.
perveta Conrad, Winchell and Schuchert, 6319.
testudinaria Dalman, Winchell and Schuchert, 6319.
 var. *conradi* N. H. Winchell, Winchell and Schuchert, 6319.
 var. *emacerata* Hall, Winchell and Schuchert, 6319.
meeki Miller, Winchell and Schuchert, 6319.
subquadrata Hall, Keyes, 3062.
swallowi Hall, Keyes, 3062.
tersa Sardeson, Sardeson, 4800.
testudinaria Sardeson, 4800.
tloga, Whitfield, 6099.
tricenaria Conrad, Keyes, 3062.
tricenaria Conrad, Winchell and Schuchert, 6319.
vanuxemi Hall, Lane, 3400.
 (*Dalmanella*) Hall, Winchell and Schuchert, 6319.

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Genera and species described—Continued.

- Orthis* (*Dalmanella*) *arcuaria* n. sp., Hall and Clarke, 2260, 2268.
 (*Dalmanella*) *elegantula*, Foerste, 1835.
freitana n. sp., Clarke, 976.
hamburgensis? Walcott, Winchell and Schuchert, 6319.
smithi n. sp., Clarke, 976.
superstes n. sp., Hall and Clarke, 2260, 2268.
 (*Dinorthis*) Hall, Winchell and Schuchert, 6319.
deflecta Conrad sp., Winchell and Schuchert, 6319.
pectinella (Emmons) Hall, Winchell and Schuchert, 6319.
 var. *sweeneyi* Winchell, Winchell and Schuchert, 6319.
meedsi W. and S., Winchell and Schuchert, 6319.
 var. *germana* W. and S., Winchell and Schuchert, 6319.
subquadrata Hall, Winchell and Schuchert, 6319.
proavita W. and S., Winchell and Schuchert, 6319.
 (*Hebertella*) Hall, Winchell and Schuchert, 6319.
borealis Billings, Winchell and Schuchert, 6319.
 ? *bellarugosa* Conrad, Winchell and Schuchert, 6319.
daytonensis, Foerste, 1835.
fausta, Foerste, 1835.
 (*Orthis-Dinorthis*) *calligramma*, Foerste, 1835.
 (*Plasiomys*) *loricula* n. sp., Hall and Clarke, 2260, 2268.
 (*Platystrophia*) King, Winchell and Schuchert, 6319.
biforata, Foerste, 1835.
biforata Schlottheim sp., Winchell and Schuchert, 6319.
 var. *crassa* James, Winchell and Schuchert, 6319.
 (*Plectorthis*) Hall, Winchell and Schuchert, 6319.
plicatella Hall, Winchell and Schuchert, 6319.
whitfieldi N. H. Winchell, Winchell and Schuchert, 6319.
 (*Rhipidomella*) *hybrida*, Foerste, 1833.
oweni n. sp., Hall and Clarke, 2260, 2268.
 (*Schizophoria*) *manitobensis* (nom. prov.), Whiteaves, 6074.
senecta n. sp., Hall and Clarke, 2260, 2268.
 sp., Girty, 2039.
Orthoceras, Clarke, 940.
Orthoceras, Breynius, Grabau, 2086.
Orthoceras, Foerste, 1833.
Orthoceras Hyatt, 2820.
albersi S. A. Miller, Miller and Faber, 3997.
cf. ampliacameratum Hall, 1847, Clarke, 953.
anellus Conrad, 1843, Clarke, 953.

Paleontology—Continued.

Genera and species described—Continued.

- Orthoceras annulatum*, var. *americanum*, Whiteaves, 6080.
aulax Hall, Grabau, 2086.
barquianum Win., Lane, 3400.
beauportense n. sp., Whiteaves, 6089.
beltramii n. sp., Clarke, 953.
bilineatum Hall, 1847, Clarke, 953.
caldwellensis n. sp., Miller and Gurley, 4002.
cf. *catulus* Bill., Matthew, 3746.
chemungense Swallow, Weller, 5894.
clinocameratum Win., Lane, 3400.
colletti n. sp., Miller, 3995.
constrictum Vanuxem, Grabau, 2086.
cribrosum Geinitz, Miller, 3995.
darwini Billings, Whiteaves, 6080.
emaceratum Hall, Grabau, 2086.
eriense Hall, Grabau, 2086.
eurekensis (Walcott) (?) Weller, 5986.
exile Hall, Grabau, 2086.
fauslerensis, Keyes, 3105.
fenestrulatum n. sp., Clarke, 946.
franklinense n. sp., Miller, 3995.
geneva n. sp., Clarke, 946.
gorbyi n. sp., Miller, 3995.
hagersvillense n. sp., Whiteaves, 6089.
harrii n. sp., Miller, 3992.
heterocinctum Win., Weller, 6006.
incarceratum n. sp., Clarke, 946.
inceptum var. *acceleratum* n. var., Foerste, 1835.
indianense Hall, Lane, 3400.
indianense, Weller, 6006.
junceum Hall, 1847, Clarke, 953.
leseuri n. sp., Clarke, 953.
ludlowense n. sp., Miller and Faber, 3997.
multicameratum Emmons, 1842, Clarke, 953.
nicolleti n. sp., Clarke, 953.
nuntium Hall, Grabau, 2086.
nuntium, Whitfield, 6099.
nuntoides n. sp., Clarke, 946.
olorus Hall, 1877, Clarke, 953.
ozarkensis Shumard, Keyes, 3062.
perroti n. sp., Clarke, 953.
planoconvexum, Whitfield, 6102.
cf. *priamus* Bill., Matthew, 3746.
cf. *primigenium* Vanuxem, Calvin, 684.
primigenium Vanuxem, Cleland, 1012.
rude Hall, Girty, 2037.
scammoni McChesney, Whiteaves, 6080.
selkirkensis Whiteaves, Whiteaves, 6087.
sociale Hall, 1877, Clarke, 953.
sociale, Whitfield, 6102.
staffordensis n. sp., Clarke, 946.
subulatum Hall, Grabau, 2086.
telamon Hall, Grabau, 2086.
tenuistriata Hall, Whiteaves, 6089.
tenuistriatum Hall, 1847, Clarke, 953.
walpolemense n. sp., Whiteaves, 6089.
westoni n. sp., Whiteaves, 6089.
whitei Win., Weller, 6006.
winnipegense Whiteaves, Whiteaves, 6089.
sp., Clarke, 976.
sp., Girty, 2039.

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Genera and species described—Continued.

- Orthoceras* (Actinoceras) *clavatum*, Foerste, 1835.
youngi, Foerste, 1835.
(Cycloceras) amycus, Foerste, 1835.
inceptum, Foerste, 1835.
(Eu-Orthoceras) ignotum, Foerste, 1835.
erraticum, Foerste, 1835.
hanoverense, Foerste, 1835.
virgulatum, Foerste, 1835.
(Spyroceras?) syproceroides n. sp., Foerste, 1835.
Orthodesma Hall and Whitfield, Ulrich, 5539.
affine n. sp., Whiteaves, 6087.
ashmuni n. sp., Miller and Faber, 3997.
canaliculatum, Ulrich, 5539.
cylindricum n. sp., Miller and Faber, 3996.
cymbula n. sp., Miller and Faber, 3997.
minnesotense n. sp., Ulrich, 5534.
minnesotense Ulrich, Ulrich, 5539.
mundum n. sp., Miller and Faber, 3994.
parvum n. sp., Ulrich, 5535.
saffordi n. sp., Ulrich, 5534.
scaphula n. sp., Miller and Faber, 3997.
schucherti n. sp., Ulrich, 5539.
subangulatum n. sp., Ulrich, 5535.
subnasutum Meek and Worthen, Ulrich, 5539.
Orthonocyphia Hall, Keyes, 3062.
acutirostre (Hall), Keyes, 3062.
chesterense (Meek and Worthen), Keyes, 3062.
cyrtolites (McChesney), Keyes, 3062.
formosum (Keyes), Keyes, 3062.
spirale (Hall), Keyes, 3062.
tortuosa Hall, Clarke, 971.
Orthonota Conrad, Grabau, 2086.
 (?) *parvula* Hall, Grabau, 2086.
Orthopsis occidentalis n. sp., Cragin, 1115.
Orthorhynchula Hall, Hall and Clarke, 2261a, 2264.
Orthostrophia Hall, Hall and Clarke, 2260.
strophomenoides Hall, Girty, 2037.
Orthotheca Novak, Matthew, 3788, 3790.
bayonet, Matthew, 3790.
corrugata n. sp., Matthew, 3788.
cylindrica n. sp., Grabau, 2092.
cylindrica Grabau, mss., Burr, 666.
de geeri Holm, Matthew, 3751.
emmonsi (Ford), Grabau, 2092.
emmonsi Ford, Matthew, 3751.
cf. *emmonsi*, Matthew, 3761.
 (?) *foerstei* n. sp., Grabau, 2092.
pugio, Matthew, 3790.
sica, Matthew, 3790.
stiletto, Matthew, 3790.
Orthothetes Fischer de Waldheim, Grabau, 2086.
Orthothetes Fischer de Waldheim, Hall and Clarke, 2260.
arctostriatus Hall, Grabau, 2086.
becraftensis n. sp., Clarke, 971.
bellulus n. sp., Clarke, 946.
chemungensis (Conrad) Hall and Clarke, Girty, 2039.
chemungensis var., Girty, 2039.

Paleontology—Continued.*Genera and species described—Continued.*

- Orthothetes chemungensis* (Conrad), Weller, 5994.
desideratus n. sp., Hall and Clarke, 2260, 2268.
inaequalis Hall, Girty, 2038.
inaequalis (Hall), Weller, 6006.
perversus Hall, Grabau, 2086.
Orthotichia, Hall and Clarke, 2260.
Orthotropia dolomitica, Hall and Clarke, 2268.
Ortonella hainesi, Ulrich, 5535.
Oryctoblattina laqueata n. sp., Scudder, 4898.
Oryctocephalus Walcott, Matthew, 3788.
reynoldsi n. sp., Reed, 542.
walkeri n. sp., Matthew, 3788.
Oryctogma n. gen., Scudder, 4894.
sackenii, Scudder, 4894.
Oryctomya n. subgen., Dall, 1277.
Oryctorhinus n. gen., Scudder, 4890.
tenuirostris, Scudder, 4890.
Oryctoscirtetes protogæum, Scudder, 4900.
Oscilla indiscreta n. sp., Guppy and Dall, 2214.
Osmotherium Cope, Cope, 1104.
spelæum, Cope, 1101, 1104.
Osmunda affinis Lx., Knowlton, 3255.
doroschkiana Göppert, Knowlton, 3232.
Osteocephalus, Case, 767.
Osteolepis, Case, 767.
Ostrakichnites carbonarius Dawson, Packard, 4229.
Ostrea Lamarck, Dall, 1272.
alabamiensis Lea, Dall, 1272.
alabamiensis Lea, Harris, 2313.
alifera n. sp., Cragin, 1115.
var. nov. pediformis, Cragin, 1115.
alternans n. sp., Cragin, 1115.
anceps n. sp., Logan, 3554.
anomoides Meek, Stanton, 5191.
attenuata n. sp., Logan, 3557.
bella Con., Cragin, 1115.
bellaplicata Shum., Cragin, 1115.
beloiti n. sp., Logan, 3555.
camelina n. sp., Cragin, 1115.
canonensis n. sp., Logan, 3557.
carica n. sp., Cragin, 1115.
carolinensis Conrad, Dall, 1272.
comoensis n. sp., Logan, 3559.
compressirostra Say, Clark, 906.
compressirostra Say, Dall, 1272.
compressirostra, Harris, 2313.
compressirostra, Say, 4983.
congesta Conrad, Logan, 3554, 3557.
congesta Conrad, Stanton, 5191.
convexa, Say, 4983.
crenula n. sp., Logan, 3557.
crenulimarginata Gabb, Dall, 1272.
crenulimarginata, Harris, 2310, 2315.
crenulimargo Roem., Cragin, 1115.
var. nov. stonewallensis, Cragin, 1115.
cretacea Morton, Aldrich, 73.
densa n. sp., Logan, 3559.
diluviana Linn, Cragin, 1115.
exogyroidea n. sp., Logan, 3557.
falco, n. sp., Dall, 1269.
falco Dall, 1272.
franklini Coq., Cragin, 1115.

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- Ostrea franklini*, Coquand?, Herrick and Johnson, 2465.
franklini ragsdalei n. var., Hill, 2539.
georgiana Conrad, Dall, 1272.
glabra, White, Herrick and Johnson, 2465.
haitensis Sowerby, Dall, 1272.
haydeni n. sp., White, 6036.
incurva n. sp., Logan, 3557.
jewellensis n. sp., Logan, 3557.
johnsoni Aldrich, Dall, 1272.
kansasensis n. sp., Logan, 3557.
larva, Harris, 2315.
lata n. sp., Logan, 3557.
leeli n. sp., Logan, 3557.
lugubris Con., Cragin, 1115.
lugubris Conrad, Logan, 3554.
lugubris Conrad, Stanton, 5191.
lyoni Shum., Cragin, 1115.
malachitensis n. sp., Stanton, 5191.
megodon, Dall, 1272.
munsoni n. sp., Hill, 2540.
percrassa Conrad, Dall, 1272.
percrassa, Whitfield, 6101.
perversa n. sp., Cragin, 1115.
plumosa Mort., Cragin, 1115.
plumosa, Harris, 2315.
podagrina n. sp., Dall, 1269, 1272.
præ-compressirostra n. sp., Harris, 2305.
pulaskensis Harris, Dall, 1272.
pulaskensis, Harris, 2310, 2315.
prudentia White, Stanton, 5191.
sculpturata Conrad, Dall, 1272.
sellæformis Conrad, Clark, 906.
sellæformis Conrad, Dall, 1272.
sellæformis Conrad, Harris, 2313.
soleniscus, Stanton, 5191.
soleniscus Mk., Cragin, 1115.
strigilecula White, Logan, 3559.
strigilecula White, Stanton, 5206.
subovata Shum., Cragin, 1115.
subspatulata Forbes, Cragin, 1115.
thirsa Gabb, Dall, 1272.
thirsa, Harris, 2313, 2315.
trigonalis Dall, 1272.
var. sylverupis, Harris, 2313.
translucida M. and H., Herrick and Johnson, 2465.
uniformis Meek, Stanton, 5191.
vicksburgensis Conrad, Dall, 1272.
virginiana, Whitfield, 6101.
var. procyon, Whitfield, 6101.
virginica Gmelin, Dall, 1272.
welleri n. sp., Logan, 3557.
willistoni n. sp., Logan, 3557.
(Alectrona) larva Lamarck, Logan, 3554.
(Gryphæostrea) subversa Conrad, Dall, 1272.
sp., Clark, 906.
sp., Herrick and Johnson, 2465.
sp., Stanton, 5199.
Otiorthynchites absentivus, Scudder, 4890.
commutatus, Scudder, 4890.
fossilis, Scudder, 4890.
tysoni, Scudder, 4890.
Otiorthynchus flaccus, Scudder, 4890.

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Genera and species described—Continued.

- Otiorynchus subterastus, Scudder, 4890.
 Otocelus testudineus Cope, Cope, 1102.
 Otoliths, Clark, 906.
 Otozamites carolinensis Fontaine, Ward, 5857.
 Ottelia americana Lx., Knowlton, 3264.
 Ovula (Transovula) multicastrata n. sp.,
 Dall, 1259.
 Owenella n. gen., Ulrich and Scofield, 5541.
 antiquata Whitfield sp., Ulrich and Scofield, 5541.
 Oxyacodon n. gen., Osborn and Earle, 4191.
 apiculatus n. sp., Osborn and Earle, 4191.
 Oxyæna forcipata Cope, Osborn and Wortman, 4180.
 huerfanensis n. sp., Osborn, 4193a.
 lupina, Osborn, 4222.
 lupina Cope, Wortman, 6495.
 Oxyænodon dysodus n. gen. et sp., Wortman, 6495.
 lupina Cope, Osborn and Wortman, 4180.
 Oxyclænus (Cope) Scott, Matthew, 3801.
 cuspidatus Cope, Matthew, 3801.
 simplex (Cope), Matthew, 3801.
 Oxydiscus Koken, Ulrich and Scofield, 5541.
 cristatus Safford, Ulrich and Scofield, 5541.
 subacutus n. sp., Ulrich and Scofield, 5541.
 Oxyporus stiriæ, Scudder, 4896.
 Oxyrhina hastalis Agassiz, Clark, 906.
 mantelli Agassiz, Eastman, 1595.
 mantelli, Williston, 6259.
 Pachyæna gigantea n. sp., Osborn and Wortman, 4180.
 intermedia n. sp., Wortman, 6495.
 ossifraga Cope, Osborn and Wortman, 4180.
 Pachydictya, Simpson, 4983.
 Pachydictya Ulrich, Ulrich, 5537.
 acuta Hall, Ulrich, 5537.
 elegans n. sp., Ulrich, 5537.
 fimbriata Ulrich, Ulrich, 5537.
 foliata Ulrich, Ulrich, 5537.
 occidentalis Ulrich, Ulrich, 5537.
 pumila Ulrich, Ulrich, 5537.
 triserialis Ulrich, Ulrich, 5537.
 Pachydiscus brazoensis Shum, Cragin, 1115.
 complexus H. and M., Cragin, 1115.
 haradai Jimbo, Whiteaves, 6085.
 sp. ?, Whiteaves, 6084.
 Pachylobius compressus, Scudder, 4890.
 deleticius, Scudder, 4890.
 deprædatus, Scudder, 4890.
 Pachymelania n. gen., White, 6036.
 cleburni White, White, 6036.
 chrysalis Meek, White, 6036.
 chrysalloidea White, White, 6036.
 ? macilenta White, White, 6036.
 turricula n. sp., White, 6036.
 Pachyphyllum sp., Girty, 2038.
 Pachyrhizodus leptognathus n. sp., Stewart, 5240.
 minimus, Stewart, 5242.
 velox n. sp., Stewart, 5240.
 Pagiophyllum, Dawson, 1434.
 dubium n. sp., Fontaine, 1846, 1847.
 peregrinum (Lindley and Hutton) Schenk, Ward, 5857.

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Genera and species described—Continued.

- Pagiophyllum williamsonis (Brongniart) Fontaine, Ward, 5857.
 Palæcis cavernosa n. sp., Miller, 3992.
 obtusa (Meek and Worthen), Keyes, 3061.
 Palæacmaea? cingulata n. sp., Whiteaves, 6074.
 Palæamea Hall and Whitfield, Ulrich and Scofield, 5541.
 humilis n. sp., Ulrich and Scofield, 5541.
 Palæanthus (Williamsonia) problematicus n. sp., Newberry, 4080.
 Palæaspis (Claypole), Claypole, 983.
 Pulæastacus (?) ornatus Whiteaves, Woodward, 6442.
 Palæaster Hall, James, 2896.
 antiqua (Locke), James, 2896.
 antiqua (Troost), James, 2896.
 clarkanus S. A. Miller, James, 2896.
 eucharis Hall, Cole, 1325.
 exculptus S. A. Miller, James, 2896.
 dubius Miller and Dyer, James, 2896.
 dyeri Meek, James, 2896.
 finei Ulrich, James, 2896.
 granulosus Hall, James, 2896.
 incomptus Meek, James, 2896.
 jamesii Dana, James, 2896.
 longibrachiatus S. A. Miller, James, 2896.
 magnificus S. A. Miller, James, 2896.
 miamiensis S. A. Miller, James, 2896.
 shæfferi Hall, James, 2896.
 simplex Miller and Dyer, James, 2896.
 speciosa (Miller and Dyer), James, 2896.
 spinulosus Miller and Dyer, James, 2896.
 wyckoffi n. sp., Miller and Gurley, 4003.
 Palæachinus burlingtonensis Meek and Worthen, Keyes, 3077.
 gigas Jackson, 2871.
 gracilis Meek and Worthen, Keyes, 3077.
 Palæictops n. gen., Matthew, 3804.
 Palæmon, Beecher, 366.
 Palæocampa (?) obscura n. sp., Matthew, 3759.
 Palæocassia laurinea n. sp., Lesquereux, 3470.
 Palæoconcha faberi S. A. Miller, Miller and Faber, 3997.
 Palæocorystes harveyi n. sp., Woodward, 6440.
 Palæoconus dumblianus Cope n. sp., Cope, 1087.
 orthodon Cope n. sp., Cope, 1087.
 Palæolagus intermedius n. sp., Matthew, 3804.
 Palæomeryx americanus n. sp., Douglas, 6540.
 madisonius n. sp., Douglas, 6540.
 Palæomylus Woodward. (1891), Eastman, 1601.
 greenei Eastman, 1601.
 predator n. sp., Eastman, 1601.
 Palæoneilo Hall, Grabau, 2086.
 constricta (Conrad), Grabau, 2086.
 constricta (Conrad)? Weller, 5994.
 emarginata (Conrad), Grabau, 2086.
 fecunda Hall, Grabau, 2086.
 muta Hall, Grabau, 2086.
 orbignyi n. sp., Clarke, 976.
 palæoneilo sp., Clarke, 976.
 pondiana Hartt and Rathbun, Clarke, 976.
 similis, Whitfield, 6099.
 ? simplex Hartt and Rathbun, Clarke, 976.
 sulcata Hartt and Rathbun, Clarke, 976.

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- Palæoneilo sulcatina*, Lane, 3400.
tenuistriata Hall, Grabau, 2076.
truncata Hall, Weller, 5994.
Palæonictis, Osborn, 4186a.
occidentalis n. sp., Osborn and Wortman, 4180.
Palæopalæmon Whitfield, Whitfield, 6099.
newberryi, Whitfield, 6096, 6099.
Palæophonus arctus n. sp., Matthew. G. F., 3758.
Palæophycus Hall, Duden, 1554.
lineare n. sp., Duden, 1554.
new-albanense n. sp., Duden, 1554.
Palæophyllum, James, 2881.
divaricans, James, 2881.
Palæopterina n. gen., Whiteaves, 6087.
parvula n. sp., Whiteaves, 6087.
Palæoptysma n. gen., Scudder, 4895.
venosa n. sp., Scudder, 4895.
Palæosaccus Hinde, Dawson, 1452.
dawsoni Hinde, Dawson, 1452.
dawsoni Hinde, Rauff, 4548.
Palæoscincus Leidy, Marsh, 3674.
Palæosolen occidentalis n. sp., Miller and Gurley, 4002.
Palæospondylus, Gill, 2023.
gunni Traquair, Dean, 1476.
Palæosyopina, Osborn, 4190.
Palæosyops, Case, 769.
borealis, Earle, 1590.
borealis Cope, Osborn and Wortman, 4180.
borealis Cope, Matthew, 3802.
levidens, Earle, 1590.
longirostris n. sp., Earle, 1590.
megarhinus, Earle, 1590.
minor, Earle, 1590.
paludosus, Earle, 1590.
Palæotetrix gilli n. gen. et sp., Shufeldt, 4960.
Palæotrochis, White, 6038.
Palæotrochis, Williams, 6187.
Palasterina (McCoy) Salter, James, 2896.
Palecphora sp., Scudder, 4895.
Paleohillia, Holm, 2714.
arkansana, n. gen. et sp., Knowlton, 3237.
Paleopupa abrupta n. gen. et sp., Foerste, 1835.
Paleschara Hall, Grabau, 2086.
amplectens Hall, Grabau, 2086.
intercella Hall, Grabau, 2086.
reticulata Hall, Grabau, 2086.
Palissya brevifolia (Emmons) Fontaine, Ward, 5857.
diffusa (Emmons) Fontaine, Ward, 5857.
sphenolepis (Friedrich Braun) Brongniart, Ward, 5857.
Paliurus anceps n. sp., Lesquereux, 3470.
columbi Heer, Knowlton, 3255.
cretaceous n. sp., Lesquereux, 3470.
integrifolius n. sp., Hollick, 2672.
integrifolius Hollick (?), Hollick, 2698.
membranaceus Lesq., Lesquereux, 3470.
minimus n. sp., Knowlton, 3255.
neilii n. sp., Dawson, 1436.
obovatus n. sp., Lesquereux, 3470.

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- Paliurus ovalis* Dawson, Lesquereux, 3470.
ovalis Dn., Newberry, 4080.
zizyphoides ? Lx., Knowlton, 3255.
Palosetrus n. gen., Scudder, 4889.
oligocenus, Scudder, 4889.
Paltorhynchus n. gen., Scudder, 4889.
 (?) *bisulcatus*, Scudder, 4889.
narwhal, Scudder, 4889.
rectirostris, Scudder, 4889.
Panoethus, Case, 769.
Panomya Gray, Dall, 1272.
ampla, Dall, 1272.
norvegica Spengler, Dall, 1272.
Panopea Menard, Dall, 1272.
americana, Conrad, Dall, 1272.
elongata Conrad, Clark, 906.
floridana Heilprin, Dall, 1272.
goldfussi Wagner, Dall, 1272.
goldfussi, Whitfield, 6101.
generosa Gould, Dall, 1272.
porrectoides var. Ald., Harris, 2311.
reflexa, Say, 4813.
reflexa Say, Dall, 1272.
whitfieldi Dall, Dall, 1272.
Pantasuarus striatus, Marsh, 3695.
Pantolambda, bathmodon Cope, Osborn, 4205.
bathmodon, Cope, Osborn and Earle, 4191.
cavirictus Cope, Osborn, 4205.
Pantylus coicodus n. sp., Cope, 1097.
Papillina papillata Con., Harris, 2311.
staminea Con. var., Harris, 2311.
Parabatrachus, Hay, 2381.
Parabolinella posthuma n. sp., Matthew, 3746.
Paracetus mediatlanticus n. sp., Cope, 1096.
Paracyathus alternatus n. sp., Vaughan, 5735.
bellus n. sp., Vaughan, 5735.
 (?) *clarkeanus* n. sp., Vaughan, 5720, 5722.
cylindricus n. sp., Vaughan, 5735.
granulosus, n. sp., Vaughan, 5735.
rugosus n. sp., Vaughan, 5735.
vaughani n. sp., Gane, 1934.
Paracyclas Hall, Grabau, 2086.
lirata (Conrad), Grabau, 2086.
sp., Girty, 2039.
Paradoxides abenacus mut., Matthew, 3776.
harlani Green, Grabau, 2092.
harlani, James, 2893.
Parahyus aberrans n. sp., Marsh, 3690.
Paralegoceras Hyatt, Smith, 5046.
iowense, Hyatt, 2816.
iowense Meek and Worthen, Smith, 5046.
Paralogus n. gen., Scudder, 4892.
æschnoides, Scudder, 4892.
Parameryx Marsh, Scott, 4883.
lævis n. sp., Marsh, 3690.
 (Leptotragulus) *proavus*, Wortman, 6493.
Paramya Conrad, Dall, 1272.
subovata Conrad, Dall, 1272.
Paramys uintensis n. sp., Osborn, 4190.
Parapholas Conrad, Dall, 1272.
sphenoides White, Logan, 3554.
sphenoides White, Stanton, 5191.
sp., Logan, 3554.

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- Parasmilia ludoviciana* n. sp., Vaughan, 5735.
Parastrophia Hall, Hall and Clarke, 2261a, 2264.
 divergens n. sp., Hall and Clarke, 2261a, 2263, 2268.
 greenii n. sp., Hall and Clarke, 2261a, 2263, 2268.
 latiplicata n. sp., Hall and Clarke, 2261a, 2263, 2268.
 multiplicata n. sp., Hall and Clarke, 2261a, 2263, 2268.
Parasaurus striatus; Marsh, 3695.
Parazyga n. gen., Hall and Clarke, 2261, 2264.
Parazyga Hall and Clarke, Grabau, 2086.
 hirsuta Hall, Grabau, 2086.
Pareiasaurus, Case, 768.
Parenchymophycus n. gen., Duden, 1554.
 asphalticum n. sp., Duden, 1554.
Pariotichus Cope, Cope, 1097.
 aguti, Cope, 1097.
 hamatus n. sp., Cope, 1097.
 isolomus n. sp., Cope, 1097.
Parisocrinus subramosus, Springer, 5163.
Parka decipiens, Dawson and Penhallow, 1438.
Parmophorella acadia (Hartt), Grabau, 2092.
 (?) *paupera*, Bill., sp., Matthew, 3790.
Parolamia rudis, Scudder, 4900.
Paromylacris ampla, Scudder, 4898.
 clintoniana n. sp., Scudder, 4898.
 ? *pluteus* n. sp., Scudder, 4898.
 triangularis n. sp., Scudder, 4898.
Paropsonema cryptophya, Clarke, 973.
Parrotia canfieldi n. sp., Lesquereux, 3470.
 grandidentata n. sp., Lesquereux, 3470.
 winchelli n. sp., Lesquereux, 3470.
Pasceolus darwinii, James, 2881.
 globosus, James, 2881.
 gregarius? Billings, Whiteaves, 6087.
 (?) *tumidus*, James, 2881.
Passiflora antiqua n. sp., Newberry, 4080.
Patella geometrica n. sp., Merriam, 3919, 3923.
Patellina texana (Roemer), Hill, 2539.
Patellostium, Girty, 2037.
Patellostium Waagen, Ulrich and Scofield, 5541.
 nodocostatum (Gurley), Girty, 2037.
 scriptiferus (White), Weller, 6006.
Paterula Barrande, Hall and Clarke, 2260.
 amii n. sp., Schuchert, 4849.
Pathenoides, Beecher, 366.
Patriofelis, Wortman, 6484.
 ferox, Osborn, 4222.
 ? *leidyanus* n. sp., Osborn and Wortman, 4180.
 ulta Leidy, Osborn, 4193a.
Patrobus gelatus, Scudder, 4896.
Pattersonia, James, 2881.
 aurita (Beecher)?, Rauff, 4548.
 difficilis, James, 2881.
 difficilis S. A. Miller, Rauff, 4548.
 tuberosa, James, 2881.
 tuberosa (Beecher), Rauff, 4548.
 ulrichi n. sp., Rauff, 4548.
Pauliella Munier Chalmas, Dall, 1281.

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Genera and species described—Continued.

- Pehyornis*, Case, 769.
Pecopteris cf. *arborescens* (Schloth.) Brongn., White, 6050.
 borealis Brongn., Fontaine, 1850.
 browniana, Dawson, 1434.
 clintoni Lx., White, 6050.
 dentata Brongn. (non Will.), White, 6040, 6049.
 geyeriana Nathorst, Fontaine, 1850.
 jenneyi n. sp., White, 6050.
 lesquereuxii D. W., White, 6049.
 oreopteridia (Schloth.) Stb., White, 6049.
 polymorpha Brongn., White, 6049.
 pseudovestita n. sp., White, 6050.
 richardsoni n. sp., White, 6049.
 serrulata Hartt, White, 6052.
 squamosa Lx., White, 6050.
 unita Brongn., White, 6049.
 vestita Lx., White, 6050.
 var. *minor* n. var., White, 6049.
 (*Asterotheca*) *hemitelioides* Brongn.?, White, 6050.
 (*Asterotheca*) *lesquereuxii* n. sp., White, 6040.
 (*Asterotheca*) *squamosa* Lx., White, 6018.
 (*Cheilanthes*) *sepulta* Newb., Newberry, 4083.
 (*Dactylothea*) *dentata* Brongn. (non Will.), White, 6050.
 (*Ptychocarpus*) *unita* Brongn.?, White, 6040.
Pecten Müller, Dall, 1222.
 alabamensis, Harris, 2310.
 californicus Gabb?, Stanton, 5199.
 centrotus (perplanus var.?), Dall, 1272.
 choctavensis n. sp., Aldrich, 73.
 clarkeanus n. sp., Aldrich, 73.
 clintonius, Say, 4813.
 complexicosta Gabb, Stanton, 5199.
 cretaceus n. sp., Dall, 1272.
 discus Conrad, Cooper, 1471.
 hericeus var. *hindsii* Carpenter, Dall, 1272.
 var. *strategus* Dall, Dall, 1272.
 inconspicuus n. sp., Cragin, 1118.
 jeffersonius, Say, 4813.
 jeffersonius var. *septenarius* Say, Dall, 1272.
 johnsoni n. sp., Clark, 904, 906.
 madisonius, Say, 4813.
 madisonius var. *sayanus* n. var., Dall, 1272.
 madisonius, Whitfield, 6101.
 rogersi n. sp., Clark, 904, 906.
 septenarius, Say, 4813.
 stantoni n. sp., Hill, 2539.
 vicenarius (?), Whitfield, 6101.
 (*Æquipecten*?) *chipolanus* n. sp., Dall, 1272.
 choctavensis Aldrich, Dall, 1272.
 glyptus Verrill, Dall, 1272.
 inæqualis Sowerby, Dall, 1272.
 oxygonum Sowerby, Dall, 1272.
 perplanus Morton, Dall, 1272.
 scissuratus n. sp., Dall, 1272.
 suwanensis n. sp., Dall, 1272.
 thetidis Sowerby, Dall, 1272.

Paleontology—Continued.*Genera and species described—Continued.*

Pecten (Amusium) Bolten, Dall, 1272.

(Amusium) ocalanus n. sp., Dall, 1272.
precursor n. sp., Dall, 1272.

(Chlamys) Bolten, Dall, 1272.

altiplicatus Conrad, Dall, 1272.

alumensis n. sp., Dall, 1272.

clarkeanus Aldrich, Dall, 1272.

cocoanus n. sp., Dall, 1272.

coccyamelus n. sp., Dall, 1272.

decemnarius Conrad, Dall, 1272.

deshayesii Lea, Dall, 1272.

exasperatus Sowerby, Dall, 1272.

fucanus n. sp., Dall, 1272.

greggi Harris, Dall, 1272.

harrisii n. sp., Dall, 1272.

hericeus Gould, Dall, 1272.

var. navarchus Dall, Dall, 1272.

indecisus n. sp., Dall, 1272.

interlineatus Gabb, Dall, 1272.

islandicus Müller, Dall, 1272.

kneiskerni Conrad, Dall, 1272.

latiauritus Conrad, Dall, 1272.

var. fucicolus, Dall, 1272.

var. monotimeris Conrad, Dall, 1272.

nuperus Conrad, Dall, 1272.

opunta n. sp., Dall, 1272.

ornatus Lamarck, Dall, 1272.

var. vaginulus Dall, Dall, 1272.

parmeleel n. sp., Dall, 1272.

tricenarius Conrad, Dall, 1272.

wahtubbeanus n. sp., Dall, 1272.

var. wilcoxii n. sp., Dall, 1272.

(Euvola) bowdenensis n. sp., Dall, 1272.

(Hinnites) DeFrance, Dall, 1272.

(Lyropecten) Conrad, Dall, 1272.

(Nodipecten) anatipes Morton, Dall, 1272.

antillarum Reclus, Dall, 1272.

caloosacensis n. sp., Dall, 1272.

condylomatus n. sp., Dall, 1272.

nodosus Linné, Dall, 1272.

peedeensis Tuomey and Holmes, Dall, 1272.

pulchricosta Meyer and Aldrich, Dall, 1272.

rogersi Conrad, Dall, 1272.

subnodosus Sowerby, Dall, 1272.

(Patinopecten) Dall, Dall, 1272.

bellus Conrad, Dall, 1272.

biformis Conrad, Dall, 1272.

burnsii n. sp., Dall, 1272.

caurinus Gould, Dall, 1272.

compactus n. sp., Dall, 1272.

coosensis Shumard, Dall, 1272.

diegensis, Dall, Dall, 1272.

eugrammatus n. sp., Dall, 1272.

expansus Dall, Dall, 1272.

hemicyclicus Racenel, Dall, 1272.

hemphillii Dall, Dall, 1272.

humphreysii Conrad, Dall, 1272.

poulsoni Morton, Dall, 1272.

propatulus Conrad, Dall, 1272.

ravemeli n. sp., Dall, 1272.

soror Gabb, Dall, 1272.

stearnsii, Dall, 1272.

Paleontology—Continued.*Genera and species described—Continued.*

Pecten (Placopecten) Verrill, Dall, 1272.

(Placopecten) clintonius Say, Dall, 1272.

marylandicus Wagner, Dall, 1272.

(Plagioctenium) excentricus Gabb, Dall, 1272.

demiurgus n. sp., Dall, 1272.

deserti Conrad, Dall, 1272.

gabbi Dall, Dall, 1272.

gibbus Linne, Dall, 1272.

var. amplicostatus Dall, Dall, 1272.

var. borealis, Dall, 1272.

var. dislocatus Say, Dall, 1272.

var. irradians Lamarck, Dall, 1272.

var. nucleus Born, Dall, 1272.

magellanicus Emelin, Dall, 1272.

oboreus Conrad, Dall, 1272.

var. comparilis Tuomey and

Holmes, Dall, 1272.

var. darlingtonensis Dall, 1272.

var. eboreus Conrad, Dall, 1272.

var. senescens Dall, Dall, 1272.

var. solaroides Heilprin, Dall,

1272.

var. yorkensis Conrad, Dall, 1272.

pabloensis Conrad, Dall, 1272.

subventricosus n. sp., Dall, 1272.

virginianus Conrad, Dall, 1272.

(Propeamusium) alabamensis Aldrich, Dall, 185.

alaskensis Dall, Dall, 1272.

(Pseudamusium) H. and A. Adams, Dall, 1272.

calvatus Morton, Dall, 1272.

cerinus Conrad, Dall, 1272.

frontalis Dall, 1272.

guppyi n. sp., Dall, 1272.

scintillatus Conrad, Dall, 1272.

sp., Clark, 906.

sp., Harris, 2309.

sp., Stanton, 5199.

sp.?, Whiteaves, 6084.

Pectunculus, Harris, 2310.

idoneus Conrad, Clark, 906.

idoneus, Harris, 2313.

(?) ovatus n. sp., Stanton, 5197.

subovatus, Say, 4813.

veatchi (Gabb), Stanton, 5198.

var. major n. var., Stanton, 5198.

virginiae Wagner, Dall, 1273.

Pediacus periclitans n. sp., Scudder, 4900.

Pedinopsis pondi Clark, Clark, 892.

Pediocætes lucasi n. sp., Shufeldt, 4960.

nanus n. sp., Shufeldt, 4960.

Pelagiella n. gen., Matthew, 3761.

atlantoides n. sp., Matthew, 3761.

Pelion, Case, 767.

Pelycictis lobulatus n. gen. et sp., Cope, 1101.

lobulatus Cope, Cope, 1104.

Pelycorhamphus petortus n. gen. et sp., Cope,

1096.

Peneus Beecher, 366.

Pentacrinus astericus Meek and Hayden,

Logan, 3559.

asteriscus Meek and Hayden, Clark, 892.

asteriscus Meek and Hayden, Stanton,

5206.

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Genera and species described—Continued.

- Pentacrinus bryani* Gabb, Clark, 892.
caput, Say, 4813.
whitei Clark, Clark, 892.
- Pentagonia Cozzens*, Hall and Clarke, 2261, 2264.
- Pentamerella* Hall, Hall and Clarke, 2261a, 2264.
- Pentamerus* Sowerby, Hall and Clarke, 2261a, 2264.
colletti n. sp., Miller, 3992.
corrugatus n. var., Weller and Davison, 5978.
ducussatus Whiteaves, Calvin, 689.
oblongus Sowerby var. *maquoketa*, Hall and Clarke, 2268.
var. *subrectus*, Hall and Clarke, 2268.
oblongus Sowerby var., Weller and Davison, 5978.
oblongus var. *bisinuatus*, Whiteaves, 6080.
occidentalis Hall, Whiteaves, 6080.
pes-ovis, Whitfield, 6099.
salinensis Swallow, Keyes, 3062.
- Pentremiridea filosa* Whiteaves (?), Weller, 5988.
milwaukensis n. sp., Weller, 5988.
- Pentremite*, Say, 4813.
florealis Schloth., Say, 4813.
globosa, Say, 4813.
pyriformis, Say, 4813.
- Pentremites benedicti* n. sp., Rowley, 4677.
conoideus Hall, Keyes, 3061.
elegans, Whitfield, 6099.
elongatus Shumard, Keyes, 3061.
- Pephricaris horripilata* n. sp., Clarke, 959.
- Peplorhina arctata* Cope, Case, 773.
- Perchœrus* (Dicotyles) antiquus, Marsh, 3681.
- Peregrinella* Oehlert, Hall and Clarke, 2264.
- Periechocrinus* Austin, Wachsmuth and Springer, 5765a.
howardi (S. A. Miller), Wachsmuth and Springer, 5765a.
infelix (Winch. and Marcy), Wachsmuth and Springer, 5765a.
marcouanus (Winch. and Marcy), Wachsmuth and Springer, 5765a.
necis (Winch. and Marcy), Wachsmuth and Springer, 5765a.
ornatus (Hall), Wachsmuth and Springer, 5765a.
speciosus (Hall), Wachsmuth and Springer, 5765a.
tennesseensis (Hall), Wachsmuth and Springer, 5765a.
? *tenuidiscus* (Hall), Wachsmuth and Springer, 5765a.
uniformis (S. A. Miller), Wachsmuth and Springer, 5765a.
? *whitei* (Hall), Wachsmuth and Springer, 5765a.
whitfieldi (Hall), Wachsmuth and Springer, 5765a.
- Periechocrinus* Austin, Weller, 6002.
chicagoensis n. sp., Weller, 6002.
egani (S. A. Miller), Weller, 6002.
infelix (Winchell and Marcy), Weller, 6002.

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Genera and species described—Continued.

- Periechocrinus marcouanus* (W. and M.), Weller, 6002.
necis (Winchell and Marcy), Weller, 6002.
uniformis (S. A. Miller), Weller, 6002.
whitei, Whitfield, 6098.
- Peripetoceras* n. gen., Hyatt, 2819.
frieslebeni Geinitz, Hyatt, 2819.
- Periploma* (?) *alta*, Whitfield, 6101.
butleriana n. sp., Aldrich, 73.
butleriana, Harris, 2313.
collardi n. sp., Harris, 2307.
sp., Harris, 2315.
- Perytychus brabensis* Cope, Osborn and Earle, 4191.
carinidens Cope, Matthew, 3801.
coarctatus Cope, Matthew, 3801.
coarctatus Cope, Osborn and Earle, 4191.
rhabdodon (Cope), Matthew, 3801.
rhabdodon Cope, Osborn and Earle, 4191.
- Perischodomus* ?? *illinoisensis* Worthen and Miller, Keyes, 3077.
- Perisoonia lesquereuxii* Knowlton, Newberry, 4080.
spatulata Hollick n. sp., Newberry, 4080.
- Perisphinctes alamitosensis* n. sp., Aguilera, 57.
cf. *balderus* Oppel, Aguilera, 57.
colfaxi, Hyatt, 2818.
colubrinus (Reinecke), Aguilera, 57.
cf. *colubrinus* (Reinecke), Aguilera, 57.
dolfusi n. sp., Aguilera, 57.
felixi n. sp., Aguilera, 57.
filiplex (?), Hyatt, 2818.
flexicostatus n. sp., Aguilera, 57.
lauri n. sp., Aguilera, 57.
lenki n. sp., Aguilera, 57.
mazapiliensis n. sp., Aguilera, 57.
monseratti n. sp., Aguilera, 57.
muhlbaehi n. sp., Hyatt, 2818.
potosinus n. sp., Aguilera, 57.
pouzinensis Toucas, Aguilera, 57.
cf. *pouzinensis* Toucas, Aguilera, 57.
skidegatensis Whiteaves, Whiteaves, 6095a.
transitorius ? Oppel, Aguilera, 57.
virgulatiformis n. sp., Hyatt, 2818.
sp.?, Aguilera, 57.
- Perissodon* Conrad, Whitfield, 6101.
- Perissolax blakei* (Conrad), Stanton, 5198.
dubia, Whitfield, 6097.
trivola, Whitfield, 6097.
- Perna cornelliana* n. sp., Harris, 2310.
torta, Say, 4812.
torta, Whitfield, 6101.
- Pernopecten cooperensis* (Shumard), Weller, 5994.
?? sp., Weller, 6006.
- Peronosporites globosus* n. sp., Simpson, 3570.
minutus n. sp., Simpson, 3570.
ramosus n. sp., Simpson, 3570.
- Perpicaria* Dall, Dall, 1259.
perplexa n. sp., Dall, 1259.
- Persea dilleri*, Knowlton, 3235.
hayana n. sp., Lesquereux, 3470.
leconteana Lesq., Lesquereux, 3470.

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Genera and species described—Continued.

- Persea schimperii* n. sp., Lesquereux, 3470.
speciosa Heer, Hollick, 2708.
Persoonia lesquereuxii n. sp., Lesquereux, 3470.
Petalocrinus n. gen., Weller and Davison, 5978.
 (?) *major* n. sp., Weller and Davison, 5978.
mirabilis n. sp., Weller and Davison, 5978.
Petalodus alleghaniensis Leidy, Eastman, 1596.
securiger n. sp., Hay, O. P., 2379.
Petalotrypa, Simpson, 4983.
Petersia medicinensis n. sp., Cragin, 1116.
Petigopora, Simpson, 4983.
gregaria Ulrich, James, 2896.
Petrablattina hastata, Scudder, 4898.
Petraster Billings, James, 2896.
wilberanus Meek, James, 2896.
Petricola Lamarck, Dall, 1281.
lapicida Gmelin, Dall, 1281.
(Petricolaria) calvertensis n. sp., Dall, 1281.
carolinensis Conrad, Dall, 1281.
pholadiformis Lamarck, Dall, 1281.
(Rupellaria) harrisii n. sp., Dall, 1281.
typica Jonas, Dall, 1281.
Pexidella Bittner, Hall and Clarke, 2264.
Phacelopora, Simpson, 4983.
portensis Ulrich, Keyes, 3062.
Phacoceras, Hyatt, 2816.
dumbli n. sp., Hay, 2389.
Phacops Emmrich, Grabau, 2086.
correlator n. sp., Clarke, 971.
hudsonicus Hall, Girty, 2086.
logani Hall, Clarke, 971.
rana (Green), Grabau, 2086.
trisulcatus, Foerste, 1835.
Phanopora, Simpson, 4983.
Phanopora Hall, Ulrich, 5537.
incipiens n. sp., Ulrich, 5537.
wilmingtonensis n. sp., Ulrich, 5537.
Phæthonides, Beecher, 354.
Phæthonides Angelin, Grabau, 2086.
gemmaeus Hall and Clarke, Grabau, 2086.
Phalacrocorax macropus, Schufeldt, 4960.
Phalium aldrichi n. sp., Dall, 1259.
globosum n. sp., Dall, 1259.
Phaneropleuron, Case, 766.
Phanerotinus paradoxus Winchell, Keyes, 3062.
paradoxus Win., Weller, 5994, 6006.
Pharella ? *pealei*, Meek, Herrick and Johnston, 2465.
 ? *peali* Meek, Stanton, 5191.
Phaseolites formus n. sp., Lesquereux 3470.
Phasianella sp.?, Guppy and Dall, 2214.
Phegopteris grothiana Heer (?), Newberry, 4080.
Phenacodus primævus Cope, Osborn, 4198, 4204, 4207.
Phialocrinus barydactylus n. sp., Keyes, 3061.
harii (Miller and Gurley), Keyes, 3061.
magnificus (Miller and Gurley), Keyes, 3061.
stillativus (White), Keyes, 3061.

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Genera and species described—Continued.

- Philine alabamensis* n. sp., Aldrich, 74.
alabamensis Ald., Harris, 2316.
Phillipsastrea billingsi Calvin, Lambe, 3375.
gigas, Calvin, 687.
verneuili Milne-Edwards and Haim., Lambe, 3375.
Phillipsia cliftonensis Shumard, Smith, 5046.
major Shum., Herrick and Johnson, 2465.
major Shumard, Keyes, 3061.
merameccensis Shumard, Keyes, 3061.
portlockii Meek and Worthen, Keyes, 3061.
(Griffithides) ornata Vogdes, Smith, 5046.
 n. sp., Herrick and Johnson, 2465.
Philonthus abayus n. sp., Scudder, 4900.
horni n. sp., Scudder, 4900.
invelatus n. sp., Scudder, 4900.
marcidulus n. sp., Scudder, 4900.
Phlaocyon n. gen., Matthew, 3804.
leucosteus n. sp., Matthew, 3804.
leucosteus Matthew, Wortman and Matthew, 6496.
Phlyctinacanthus telleri, n. sp., Eastman, 1601.
Phœnicopterus copei n. sp., Schufeldt, 4960.
Pholadella Hall, Grabau, 2086.
parallela Hall, Clarke, 976.
radiata (Conrad), Grabau, 2086.
Pholadidea Goodall, Dall, 1272.
Pholadomya coloradoensis n. sp., Stanton, 5191.
coloradoensis Stanton, Herrick and Johnson, 2465.
inaequiplicata n. sp., Stanton, 5206.
ingens n. sp., Cragin, 1115.
kingi Meek, Stanton, 5206.
knowltoni n. sp., Hill, 2539.
lerchi n. sp., Hill, 2539.
marylandica Conrad, Clark, 906.
mauryi n. sp., Harris, 2310.
multilmeata, Hyatt, 2818.
nevadana, Hyatt, 2818.
papyracea, M. and H., Herrick and Johnston, 2465.
papyracea, M. and H., Stanton, 5191.
postextenta n. sp., Cragin, 1115.
ragsdalei n. sp., Cragin, 1118.
robusta n. sp., Logan, 3559.
subventricosa M. and H., Herrick and Johnston, 2465.
(Triplicosta) progressiva n. sp., Cooper, 1072.
Pholas (Linné) Lamarck, Dall, 1272.
alatoidea, Harris, 2313.
alatoideus, Harris, 2315.
ovalis Say, 4813.
 (?) *petrosa* Conrad, Clark, 906.
producta Conrad, Dall, 1272.
(Thovana) campechiensis Gmelin, Dall, 1272.
memmingeri, Tuomey and Holmes, Dall, 1272.
Pholidocidaris meeki n. sp., Jackson, 2871.
Pholidops Hall, Grabau, 2086.
Pholidops Hall, Hall and Clarke, 2260, 2268.

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Genera and species described—Continued.

- Pholidops calceola* n. sp., Hall and Clarke, 2260, 2268.
greeni n. sp., Miller and Gurley, 4003.
hamiltoniæ Hall, Grabau, 2086.
linguloides Hall, Grabau, 2086.
patina n. sp., Hall and Clarke, 2260, 2268.
terminalis Hall, Clarke, 971.
trentonensis Hall var. *minor* n. var., Winchell and Schuchert, 6319.
trombetana n. sp., Clarke, 976.
 sp.?, Clarke, 971.
Phombipora rhombifera Hall, Clarke, 971.
Phos albirupina n. sp., Harris, 2305.
fasciolatus n. sp., Guppy and Dall, 2214.
gabbii n. sp., Guppy and Dall, 2214.
galvestonensis n. sp., Harris, 1309.
hilli n. sp., Harris, 2305.
johnsoni n. sp., Vaughan, 5722.
metuloides n. sp., Guppy and Dall, 2214.
(Strongylocera) chipolanus n. sp., Guppy and Dall, 2214.
 sp. undet., Dall, 1259.
Phosphorosaurus, Williston, 6245.
Phractopora, Simpson, 4983.
Phragmites aquehogensis n. sp., Hollick, 2691.
cretaceus Lesq., Lesquereux, 3470.
falcata n. sp., Knowlton, 3255.
 ? *latissima* n. sp., Knowlton, 3255.
 sp. (?) Newberry, 4083.
Phragmoceras expansum Win., Weller, 6006.
hector Billings, Whiteaves, 6080.
missouriense n. sp., Miller, 3992.
Phragmodictya Hall, Hall and Clarke, 2269, 2271.
catelliformis Whitfield (sp.), Hall and Clarke, 2269, 2271.
 (?) *crebristriata* Hall, Hall and Clarke, 2269, 2271.
 (?) *lineata* Hall, Hall and Clarke, 2269, 2271.
patelliformis Hall, Hall and Clarke, 2269, 2271.
Phryganea ejecta n. sp., Scudder, 4899.
Phycograptus n. gen., Gurley, 2217.
brachymera n. sp., Gurley, 2217.
Phyllangia florida n. sp., Gane, 1934.
Phyllites, Dawson, 1436.
amissus n. sp., Lesquereux, 3470.
arctica n. sp., Knowlton, 3232.
aristolocheiformis n. sp., Lesquereux, 3470.
carneous Newb., Newberry, 4083.
celatus n. sp., Lesquereux, 3470.
crassifolia n. sp., Knowlton, 3255.
cupanioides, Newb., Newberry, 4083a.
durescens n. sp., Lesquereux, 3470.
ellipticus n. sp., Newberry, 4080.
erosus n. sp., Lesquereux, 3470.
flexuosus n. sp., Knowlton, 3246.
ilicifolius n. sp., Lesquereux, 3470.
lacoie n. sp., Lesquereux, 3470.
laurencianus n. sp., Lesquereux, 3470.
obcordatus Heer, Newberry, 4083.
obscura Hollick n. sp., Newberry, 4080.

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Genera and species described—Continued.

- Phyllites obscurus* n. sp., Knowlton, 3246.
orbicularis n. sp., Newberry, 4082.
oregonianus n. sp., Knowlton, 3262.
perplexus n. sp., Lesquereux, 3470.
snowii n. sp., Lesquereux, 3470.
stipulaeformis n. sp., Lesquereux, 3470.
triloba n. sp., Knowlton, 3264.
vanonæ Heer, Lesquereux, 3470.
vanonæ Heer, Newberry, 4083.
venosus Newb., Newberry, 4083.
undulatus n. sp., Newberry, 4082.
zamlkeformis n. sp., Lesquereux, 3470.
 sp., Knowlton, 3262, 3264.
Phyllobius antecessor, Scudder, 4890.
avus, Scudder, 4890.
carcerarius, Scudder, 4890.
Phyllocarida, Clarke, 939.
Phylloceras Suess, Smith, 5052.
indra (var.), Whiteaves, 6085.
knoxvillensis n. sp., Stanton, 5199.
knoxvillense var., Whiteaves, 6095a.
onçense Stanton, Smith, 5052.
 cf. *velledoe* (Michelin), Aguilera, 57.
Phyllocladus subintegrefolius Lesq., Lesquereux, 3470.
Phyllodictya, Simpson, 4983.
Phyllodictya Ulrich, Ulrich, 5537.
frondosa? Ulrich, Ulrich, 5537.
varia n. sp., Ulrich, 5537.
Phyllonotus morulus Har., Harris, 2316.
Phyllopora, Simpson, 4983.
Phylloporina Ulrich, Ulrich, 5537.
corticosa Ulrich, Ulrich, 5537.
halli, Ulrich, Ulrich, 5537.
reticulata Hall, Ulrich, 5537.
sublaxa Ulrich, 5537.
Phylloteuthis incertus (nom. prov.), Whiteaves, 6095a.
Phynchostegium knowltoni, n. sp., Britton, 599.
Phyrganea ejecta Scudder, Ami, 87.
Physa ancillaria Say, Baker, 217.
heterostropha Say, Baker, 217.
meigsii n. sp., Dall, 1259.
usitata n. sp., White, 6036.
Physetocrinus M. and W., Wachsmuth and Springer, 5765a.
asper (M. and W.), Wachsmuth and Springer, 5765a.
copei (S. A. Miller), Wachsmuth and Springer, 5765a.
dilatatus (M. and W.), Wachsmuth and Springer, 5765a.
lobatus W. and Sp. (n. sp.), Wachsmuth and Springer, 5765a.
ornatus (Hall), Keyes, 3061.
ornatus (Hall), Wachsmuth and Springer, 5765a.
sampsoni n. sp., Miller and Gurley, 4001.
ventricosus (Hall), Keyes, 3061.
ventricosus (Hall), Wachsmuth and Springer, 5765a.
Physetomya acuminata n. gen. et sp., Ulrich, 5535.
Physospongia Hall, Hall and Clarke, 2269, 2271.

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Genera and species described—Continued.

- Phyospongia alternata* Hall, Hall and Clarke, 2269, 2271.
colletti Hall, Hall and Clarke, 2269, 2271.
dawsoni Whitfield (sp.), Hall and Clarke, 2265, 2271.
multibursaria n. sp., Hall and Clarke, 2269, 2271.
Phyxelis dilapsus, Scudder, 4890.
eradicatus, Scudder, 4890.
evigoratus, Scudder, 4890.
excissus, Scudder, 4890.
Picea nigra, Penhallow, 4336.
Pileotraypa, Simpson, 4983.
Piloceras, Hyatt, 2820.
newton-winchilli n. sp., Clarke, 953.
Pinacotrypa, Simpson, 4983.
Pinacotrypa marginata n. sp., Whiteaves, 6074.
Pinna alamedensis Yates, Cooper, 1071.
arkansana n. sp., Weller, 5986.
caloosensis n. sp., Dall, 1272.
carnea Gmelin, Dall, 1272.
comancheana n. sp., Cragin, 1116.
kingi Meek, Logan, 3559.
maxvillensis, Whitfield, 6099.
peracuta Shumard, Girty, 2037.
 Keyes, 3062.
petrina, White, Herrick, and Johnson, 2465.
petrina White, Stanton, 5191.
quadrata n. sp., Dall, 1272.
rudis (Linné) Dillwyn, Dall, 1272.
venturensis Yates, Cooper, 1071.
 sp., Harris, 2313, 2315.
 sp., Logan, 3559.
 n. sp., Stanton, 5199.
Pinnaporina, Simpson, 4983.
Pinnatopora multipora n. sp., Rogers, 4656.
ptiloporoidea n. sp., Rogers, 4656.
pyriformipora n. sp., Rogers, 4656.
Pinoxylon dacotense Knowlton n. sp., Ward, 5857.
docatense n. sp., Knowlton, 3261.
Pinus anthraciticus n. sp., Dawson, 1434.
gracilistrobis n. sp., Knowlton, 3255.
hambachi n. sp., Kirchner, 3187.
iddingsi n. sp., Knowlton, 3255.
macrolepis n. sp., Knowlton, 3255.
nordenskiöldi Heer ?, Ward, 5857.
premurrayana n. sp., Knowlton, 3255.
quenstedtii Heer, Knowlton, 3264.
susquacensis Dawson, Fontaine, 1850.
wardii n. sp., Knowlton, 3255.
(Cyclopitus) nordenskiöldii, Dawson, 1434.
 sp., Knowlton, 3246.
 sp. ?, Newberry, 4080.
 sp., Knowlton, 3262.
Pisania (Celaconus) nux n. sp., Dall, 1259.
(Tritonidea) johnsoni n. sp., Aldrich, 73.
Pisidium compressum Prince, Baker, 217.
Pisocerinus baccula n. sp., Miller and Gurley, 3998.
benedicti n. sp., Miller, 3992.
campana n. sp., Miller, 3992.
gemmiformis, Miller, 3992.
gorbyi n. sp., Miller, 3992.
milligani n. sp., Miller and Gurley, 3998.
Pistacia aquehongensis n. sp., Hollick, 2669.

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- Pistia corrugata* Lx., Knowlton, 3264.
Pithecanthropus erectus, Marsh, 3697.
Pityoxylon alderisoni n. sp., Knowlton, 3255.
amethystinum n. sp., Knowlton, 3255.
hollicki n. sp., Knowlton, 3250.
pealei n. sp., Knowlton, 3243.
 n. sp., Hollick, 2698.
Placenticerus californicum, Smith, 5055.
costatus n. sp., Herrick and Johnson, 2465.
fallax n. sp., Aguilera, 57.
pacificum n. sp., Smith, 5055.
placenta Dekay, Logan, 3554.
placenta (Dekay) Stanton, 5191.
syrtalis Mort., var. nov. cumminsi, Cragin, 1115.
Placoderm, Claypole, 979, 987.
Placodus, Case, 768.
Placophyllum n. gen., Simpson, 4984.
Placunanomia lithobleta n. sp., Dall, 1272.
plicata Tuomey and Holmes, Dall, 1272.
Placunopsis carbonaria Meek and Worthen, Keyes, 3062.
 ? *hilliardensis* White, Stanton, 5191.
Plasiomys, Hall and Clarke, 2260.
Plagiolophus vanconverensis n. sp., Woodward, 6440.
Planera crenata Newb., Newberry, 4083.
knowltoniana Hollick n. sp., Newberry, 4082.
longifolio Lesq., Newberry, 4083.
mycophylla Newb., Newberry, 4083.
nervosa Newb., Newberry, 4083.
variabilis Newb., Newberry, 4083.
Planetoceras n. gen., Hyatt, 2816.
Planolites corrugatus n. sp., Walcott, 5815.
superbus n. sp., Walcott, 5815.
Planophlebia Scudder, Scudder, 4895.
gigantea, Scudder, 4895.
Planorbis campanulatus Say, Baker, 217.
conanti n. sp., Dall, 1259.
disstoni n. sp., Dall, 1259.
pabloanus n. sp., Cooper, 1071.
precursoris n. sp., White, 6036.
willcoxii n. sp., Dall, 1259.
Plasmopora Milne-Edwards and Haime, 1849, Lambe, 3374.
foliis Milne-Edwards and Haime, Lambe, 3374.
petaliformis Lonsdale (sp.), Lambe, 3374.
Plataninium haydeni Felix, Knowlton, 3255.
Platanus appendiculata, Knowlton, 3235.
aspera Newb., Newberry, 4083.
cissoides n. sp., Lesquereux, 3470.
cissoides Lesquereux ?, Ward, 5856.
guillelmæ Goepf., Knowlton, 3255.
haydeni Newb., Newberry, 4083.
latilobi Newb., Newberry, 4083.
montana n. sp., Knowlton, 3255.
newberryana Heer, Lesquereux, 3470.
nobilis, Newb., Newberry, 4083.
obtusiloba Lesq., Lesquereux, 3470.
primæva ? Lesq., Dawson, 1436.
 Lesquereux, 3470.
primæva Lesq., Lesquereux, 3470.
grandidentata var., Lesquereux, 3470.

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- Platanus primaeva integrifolia*, Lesquereux, 3470.
primaeva subintegrifolia, Lesquereux, 3470.
raynoldsii Newb., Newberry, 4083.
wardii n. sp., Knowlton, 3264.
- Platycarpus*, Williston, 6238, 6245, 6249, 6252, 6245.
clidastoides, Williston, 6245.
coryphaeus Cope, Baur, 299.
coryphaeus, Williston, 6245.
crassartus, Williston, 6245.
felix, Williston, 6245.
glandiferus, Williston, 6245.
gracilis, Williston, 6245.
ictericus, Williston, 6245.
latifrons, Williston, 6245.
latispinis, Williston, 6245.
mudgei, Williston, 6245.
oxyrhinus, Williston, 6245.
planifrons, Williston, 6245.
simus, Williston, 6245.
tectulus, Williston, 6245.
- Platidia* Costa, Hall and Clarke, 2264.
- Platyceras* Conrad, Girty, 2038.
- Platyceras* Conrad, Grabau, 2086.
- Platyceras* Conrad, Matthew, 3790.
boonvillense n. sp., Miller, 3992.
bucculentum Hall, Grabau, 2086.
carinatum Hall, Grabau, 2086.
deflectum n. sp., Grabau, 2092.
 (?) *depressum* n. sp., Ulrich and Scofield, 5541.
erectum Hall, Grabau, 2086.
cf. gebhardi Hall, Clarke, 971.
hartti n. sp., Clarke, 976.
hussaki n. sp., Clarke, 976.
indianense n. sp., Miller and Gurley, 4003.
missouriense n. sp., Miller, 3992.
nasutum n. sp., Miller, 3992.
niagarense, var. *clintonense* n. var., Foerste, 1835.
- nodosum* Conrad, Clarke, 971.
pettisenense n. sp., Miller, 3992.
primævum Billings, Grabau, 2092.
primordialis Hall?, Walcott, 5816.
radiatum, Matthew, 3790.
squalodens, Whitfield, 6099.
steinmanni n. sp., Clarke, 976.
symbola, Matthew, 3790.
symmetricum, Grabau, 2086.
symmetricum, Hall (?), Clarke, 976.
 var. *maccruense*, n. var., Clarke, 976.
thetis Hall, Grabau, 2086.
transversum, Matthew, 3790.
whitii n. sp., Clarke, 976.
 var. *curua* n. var., Clarke, 976.
wisconsinensis n. sp., Ulrich and Scofield, 5541.
 (Orthonychia) *attenuatum* Hall, Grabau 2086.
 (Orthonychia) *parvulum* n. sp., Whiteaves, 6074.
 (Platystoma) *niagarense*, Foerste, 1835.
- Platycocenia jacksonensis* n. sp., Vaughan 5735.

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- Platycrinus* Miller, Grabau, 2086.
- Platycrinus* Miller, Wachsmuth and Springer, 5765a.
- Platycrinus* Miller, Weller, 6002.
- acclivus* S. A. Miller, Wachsmuth and Springer, 5765a.
- aqualis* Hall, Keyes, 3061.
- aqualis* Hall, Wachsmuth and Springer, 5765a.
- aquiternus* S. A. Miller, Wachsmuth and Springer, 5765a.
- agassizi* W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
- alabamensis* n. sp., Miller, 3992.
- allophylus* (Miller), Keyes, 3061.
- allophylus* S. A. Miller, Wachsmuth and Springer, 5765a.
- americanus* O. and Sh., Wachsmuth and Springer, 5765a.
- americanus* Owen and Shumard, Keyes, 3061.
- asper* M. and W., Wachsmuth and Springer, 5765a.
- bonoensis* White, Wachsmuth and Springer, 5765a.
- boonvillensis* S. A. Miller, Wachsmuth and Springer, 5765a.
- bozemanensis* n. sp., Miller and Gurley, 4003.
- brevinodus* Hall, Wachsmuth and Springer, 5765a.
- bridgerensis* n. sp., Miller and Gurley, 4003.
- britisi* S. A. Miller, Wachsmuth and Springer, 5765a.
- burlingtonensis* O. and Shum., Wachsmuth and Springer, 5765a.
- burlingtonensis* Owen and Shumard Keyes, 3061.
- caducus* n. sp., Miller, 3995.
- canaliculatus* Hall, Wachsmuth and Springer, 5765a.
- casula* n. sp., Miller and Gurley, 2998.
- cavus* Hall, Wachsmuth and Springer, 5765a.
- chouteauensis* n. sp., Miller, 3995.
- clinatus* n. sp., Miller and Gurley, 3998.
- clytis*, Whitfield, 6098.
- colletti* n. sp., Miller, 3995.
- concinulus* n. sp., Miller and Gurley, 4000.
- contritrus* Hall and Whitf., Wachsmuth and Springer, 5765a.
- corbuliformis* Rowley and Hare, Wachsmuth and Springer, 5765a.
- cortina* n. sp., Miller and Gurley, 3997c.
- davisi* W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
- discoideus* O. and Shum., Wachsmuth and Springer, 5765a.
- discoideus* Owen and Shumard, Keyes, 3061.
- douglasi* n. sp., Miller and Gurley, 4001.
- (?) *dubius* n. sp., Weller, 6002.
- elegans*, Whitfield, 6098.

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- Platycrinus cminulus* Hall, Wachsmuth and Springer, 5765a.
erianis Hall, Grabau, 2086.
erianis Hall, Wachsmuth and Springer, 5765a.
excavatus Hall, Wachsmuth and Springer, 5765a.
excavatus, Whitfield, 6098.
formosus n. sp., Miller and Gurley, 3998.
formosus, var. *approximatus* n. var., Miller and Gurley, 4001.
geometricus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
germanus n. sp., Miller and Gurley, 3998.
glyptus Hall, Wachsmuth and Springer, 5765a.
gorbyi S. A. Miller, Wachsmuth and Springer, 5765a.
graphicus Hall and Whitf., Wachsmuth and Springer, 5765a.
halli Shumard, Keyes, 3061.
halli Shum., Wachsmuth and Springer, 5765a.
hemisphericus M. and W., Wachsmuth and Springer, 5765a.
hodgsoni n. sp., Miller and Gurley, 3999.
huntsville Troost MS., Wachsmuth and Springer, 5765a.
illinoisensis n. sp., Miller and Gurley, 3999.
incomptus White, Wachsmuth and Springer, 5765a.
insolens Rowley and Hare, Wachsmuth and Springer, 5765a.
lodensis Hall and Whitf., Wachsmuth and Springer, 5765a.
missouriensis n. sp., Miller and Gurley, 3998.
modestus n. sp., Miller and Gurley, 3998.
niotensis M. and W., Wachsmuth and Springer, 5765a.
nodo-stratus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
ollicula S. A. Miller, Wachsmuth and Springer, 5765a.
ornigranulus McChesney, Wachsmuth and Springer, 5765a.
purvinodus Hall, Wachsmuth and Springer, 5765a.
peculiaris W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
pettensis n. sp., Miller and Gurley, 3998.
pileiformis, Hall, Keyes, 3061.
pileiformis Hall, Wachsmuth and Springer, 5765a.
pisum Rowley and Hare, Wachsmuth and Springer, 5765a.
planus O. and Sh., Wachsmuth and Springer, 5765a.
pocilliformis Hall, Wachsmuth and Springer, 5765a.
pratenni Worthen, Keyes, 3061.
pratenni Worthen, Wachsmuth and Springer, 5765a.
quinquenodus White, Wachsmuth and Springer, 5765a.

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- Platycrinus regalis* Hall, Wachsmuth and Springer, 5765a.
saffordi Hall, Wachsmuth and Springer, 5765a.
saffordi Troost, Keyes, 3061.
sampsoni Miller, Keyes 3061.
sumpsoni S. A. Miller, Wachsmuth and Springer, 5765a.
saræ Hall, Wachsmuth and Springer, 5765a.
scobina M. and W., Wachsmuth and Springer, 5765a.
sculptus Hall, Keyes, 3061.
sculptus Hall, Wachsmuth and Springer, 5765a.
sharonensis n. sp., Miller and Gurley, 4003.
spinifer var. *elongatus* W. and Sp. (nov. var.), Wachsmuth and Springer, 5765a.
spinifer W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
striobrachiatus, Whitfield, 6098.
subscitulus n. sp., Miller and Gurley, 4000.
subspinosus Hall, Wachsmuth and Springer, 5765a.
subspinulosus Hall, Wachsmuth and Springer, 5765a.
sulciferus n. sp., Miller and Gurley, 3998.
symmetricus Wachsmuth and Springer, Girty, 2038.
symmetricus W. and Sp., Wachsmuth and Springer, 5765a.
tenuibrachiatus M. and W., Wachsmuth and Springer, 5765a.
tigurium n. sp., Miller and Gurley, 3998.
truncatulus Hall, Wachsmuth and Springer, 5765a.
vascellum n. sp., Miller and Gurley, 3997d.
verrucosus White, Wachsmuth and Springer, 5765a.
wortheni Hall, Wachsmuth and Springer, 5765a.
yandelli O. and Sh. (typical form), Wachsmuth and Springer, 5765a.
yandelli, var. *perasper* Shum., Wachsmuth and Springer, 5765a.
Platygonus, Williston, 6227.
bicalearatus Cope, Cope, 1087.
rex n. sp., Marsh, 3690.
Platymetopus bicornis Ulrich (sp.), 1892, Clarke, 952.
cucullus Meek and Worthen (sp.), 1865, Clarke, 952.
robbinsi Ulrich (sp.), 1892, Clarke, 952.
Platynus Bonelli, Scudder, 4896.
casus, Scudder, 4896.
desuetus, Scudder, 4896.
dilapidatus, Scudder, 4896, 4900.
dissipatus, Scudder, 4896.
halli, Scudder, 4896.
hartii, Scudder, 4896.
hindei, Scudder, 4896.
tartareus n. sp., Scudder, 4900.

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- Platyodon Conrad, Dall, 1272.
 Platyostoma Conrad, Grabau, 2086.
 broadheadi n. sp., Miller, 3992.
 lineata Conrad, Grabau, 2086.
 var. *emarginata* n. var. Grabau, 2086.
 minutum n. sp., Girty, 2086.
 tumidum n. sp., Whiteaves, 6074.
 Platyschisma barrisi (Win.), Weller, 6006.
 depressa n. sp., Weller, 6006.
 missouriensis n. sp., Weller, 5994.
 Platysonus lacovianus n. sp., Cope, 1076.
 palmaris n. sp., Cope, 1076.
 Platystegos loricatum n. sp., Dawson, J. W., 1446.
 Platystethus archetypus n. sp., Scudder, 4900.
 carcareus n. sp., Scudder, 4900.
 Platystrophia King, Hall and Clarke, 2260.
 lynx (Eichwald), Keyes, 3062.
 Platytrichus claibornensis de Gregorio, Vaughan, 5735.
 goldfussi (Lea), Vaughan, 5735.
 stokesi (Lea), Vaughan, 5735.
 Platyxytrodus striatus, Hay, 2381.
 Plectambonites Pander, Hall and Clarke, 2260.
 Plectambonites Pander, Winchell and Schuchert, 6319.
 gibbosa, Winchell and Schuchert, 6298.
 gibbosa W. and S., Winchell and Schuchert, 6298.
 producta n. sp., Hall and Clarke, 2261a, 2263.
 producta, Hall and Clarke, 2268.
 rhomboidalis (Wilckens), Keyes, 3062.
 sericea Sowerby sp., Winchell and Schuchert, 6319.
 transversalis, Foerste, 1835.
 Plectoceras, Hyatt, 2819.
 bickmoreanus sp., Whitfield, Hyatt, 2819.
 obscurum n. sp., Hyatt, 2819.
 Plectoderma scitulum Hinde, Rauff, 4548.
 Plectonotus derbyi n. sp., Clarke, 976.
 ? *salteri* n. sp., Clarke, 976.
 Plectorthis, Hall and Clarke, 2260.
 Pleisiochelys belviderensis n. sp., Cragin, 1119.
 Pleiosaurus, Case, 768.
 gouldii n. sp., Williston, 4180.
 mudgei n. sp., Cragin, 1119.
 plicatus, Marsh, 3695.
 shirleyensis n. sp., Knight, 3216.
 Plethocardia n. gen., Ulrich, 5534.
 Plethocardia Ulrich, Ulrich, 5539.
 suberecta n. sp., Ulrich, 5534, 5539.
 umbonata n. sp., Ulrich, 5534, 5539.
 Plethomytilus Hall, Grabau, 2086.
 oviformis (Conrad), Grabau, 2086.
 Plethospira n. gen., Ulrich and Scofield, 5541.
 semele Hall, Ulrich and Scofield, 5541.
 socialis n. sp., Girty, 2035.
 striata n. sp., Ulrich and Scofield, 5541.
 ? n. sp., Girty, 2037.
 Pleuracanthus, Case, 766.
 (*Didymodus*) *compressus* Newb., Case, 773.

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- Pleuracanthus (Orthacanthus) gracilis Newb., Case, 773.
 (Orthacanthus) *quadriseriatus* Cope, Case, 773.
 Pleurocelus, Marsh, 370.
 Pleurocystites mercerensis n. sp., Miller and Gurley, 3997d.
 Pleurodictyum, Girty, 2032.
 Pleurodictyum Goldfuss, Grabau, 2086.
 lenticulare, Beecher, 352.
 stylopora (Eaton), Grabau, 2086.
 Pleurodon S. Wood, Dall, 1272.
 woodii n. sp., Dall, 1272.
 Pleuromya concentrica n. sp., Hyatt, 2818.
 (?) *henseli* n. sp., Hill, 2539.
 inconstans n. sp., Aguilera, 57.
 papracea var. *carlottensis*, Whiteaves, 6095a.
 subcompressa Meek, Logan, 3559.
 subcompressa Meek, Stanton, 5206.
 Pleuromytilus, Hyatt, 2819.
 Pleuronotos decewi (Billings) Hall?, Girty, 2039.
 Pleurophorus oblongus Meek, Keyes, 3062.
 taffi n. sp., Girty, 2037.
 Pleurostomella subnodosa Reuss, Woodward and Thomas, 6433.
 subnodosa Reuss, Bagg, 150.
 Pleurotoma albida Perry, Dall, 1279.
 beadata n. sp., Harris, 2307.
 cainei n. sp., Harris, 2316.
 capax Whitf., Harris, 2316.
 carlotta n. sp., Harris, 2316.
 clarkiana n. sp., Aldrich, 7.
 decipiens n. sp., Cooper, 1071.
 denticulata Edw. var., Harris, 2316.
 enstricrina n. sp., Harris, 2307.
 exiloides Ald., Harris, 2316.
 farmingdalensis n. sp., Whitfield, 6097.
 georgei n. sp., Harris, 2316.
 harrisi n. sp., Clark, 904, 906.
 ? *hitzi* Meek, Herrick and Johnson, 2465.
hitzi Meek, Stanton, 5191.
huppertzi n. sp., Harris, 2307.
 var. *penrosei* n. var., Harris, 2307.
huppertzi var., Harris, 2315.
insignifica Heilp., Harris, 2307.
langdoni n. sp., Aldrich, 73.
langdoni Heilp., Harris, 2316.
leoncola n. sp., Harris, 2316.
longipera, n. sp., Harris, 2310.
mediavia n. sp., Harris, 2310.
mediavia Har. var., Harris, 2376.
 var. *equiseta* n. var., Harris, 2316.
moniliata Heilp., Harris, 2316.
moorei Gabb, Harris, 2316.
nasuta Whitf., Harris, 2311.
nebulosa n. sp., Harris, 2316.
ostrarupis, Harris, 2315, 2316.
perkinsiana n. sp., Cooper, 1071.
persa, Harris, 2310.
pulcherrima, Aldrich, 74.
regularicostata n. sp., Whitfield, 6097.
roscoeii n. sp., Harris, 2316.
servata Conrad, Dall, 1279.

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- Pleurotoma servatoidea* n. sp., Aldrich, 73.
servatoidea Ald., Harris, 2316.
silicata n. sp., Aldrich, 73.
silicata Ald., Harris, 2315, 2316.
 (?) *siphus* Ald., Harris, 2316.
surculitiformis n. sp., Whitfield, 6097.
terebialis Ald. var., Harris, 2316.
texanopsis n. sp., Harris, 2307.
tombigbeensis Ald., Harris, 2316.
vaughani n. sp., Harris, 2316.
vaughani var., Harris, 2311.
vaughani var. *sylværupis*, Harris, 2316.
veatchi n. sp., Harris, 2316.
venusta, Aldrich, 74.
 (Ancistrosyrius) *columbaria* Ald., Harris, 2311.
 (Bela) *rebecca* n. sp., Harris, 2307.
 (Borsonia) *plenta* n. sp., Harris, 2307.
 (Clathurella) *funne* n. sp., Harris, 2307.
 (Cythara) *galvestonensis* n. sp., Harris, 2309.
 (?) *leania* n. sp., Harris, 2310, 2311.
 (Drillia) *dumblei* n. sp., Harris, 2307.
dipta n. sp., Harris, 2307.
nodocarinata Gabb, Harris, 2307.
prosseri n. sp., Harris, 2307.
kelloggi Gabb, Harris, 2307.
 (Drillia) *pseudoburnea*, Whitfield, 6097.
 (Drillia) *quadridentennialis* n. sp., Harris, 2309.
quercollis, Harris, 2310.
texacona, Harris, 2307.
 (Encheilodon) *reticulatoides* n. sp., Harris, 2307.
 (Mangilia) *infans*, Harris, 2307, 2316.
 (Pleurotomella) *anacona* n. sp., Harris, 2307.
 (Pleurotomella?) *anacona*, Harris, 2310.
 (Surreula) *adeona*, Harris, 2310.
 (Surreula?) *altispira* n. sp., Whitfield, 6097.
 (Surreula) *gabbi* Con., Harris, 2307.
moorei Gabb, Harris, 2307.
 (Taranis) *finexa* n. sp., Harris, 2307.
sp., Harris, 2310.
Pleurotomaria de France, Grabau, 2086.
bispiralis Hall, Whiteaves, 6080.
brazoensis Shumard, Keyes, 3062.
brittoni n. sp., Whitfield, 6097.
broadheadi White, Keyes, 3062.
capillaria Conrad, Grabau, 2086.
carbonaria Norwood and Pratten, Keyes, 3062.
coniformis Worthen, Keyes, 3062.
coxana Meek and Worthen, Keyes, 3062.
crotaloides Morton, Pilsbry, 4380.
deloepia Billings, Whiteaves, 6080.
elora Billings, Whiteaves, 6080.
filitexta n. sp., Foerste, 1835.
floridensis n. sp., Cleland, 1012.
galtensis Billings, Whiteaves, 6086.
grayvillensis Norwood and Pratten, Keyes, 3062.
halei Hall, var., Whiteaves, 6080.
harii n. sp., Miller, 3992.
hunterensis n. sp., Cleland, 1012.

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- Pleurotomaria huronensis*, Lane, 3400.
illinoisensis Worthen, Keyes, 3062.
infranodosa n. sp., Whiteaves, 6074.
isaacsi Hall and Whitfield (?) Girty, 2038.
itys Hall, Grabau, 2086.
lens (Hall), Keyes, 3062.
lerchi n. sp., Vaughan, 5722.
lucinia Hall, Grabau, 2086.
ludoviciana n. sp., Vaughan, 5722.
macilenta n. sp., Cragin, 1115.
 (?) *margaritoides* n. sp., Whiteaves, 6087.
monilifera (White), Keyes, 3062.
montezuma Worthen, Keyes, 3062.
muralis D. D. Owen, Whiteaves, 6087.
nasoni, Whitfield, 6102.
niota, Whitfield, 6102.
perhumerosa Meek, Keyes, 3062.
planidorsalis Hall, Grabau, 2086.
providencis, Broadhead, 605.
regulata Hall, Grabau, 2086.
robusta n. sp., Cragin, 1115.
rochana, Hartt and Rathbun, Clarke, 976.
sancti-mauritii n. sp., Vaughan, 5722.
sedaliensis, n. sp., Miller, 3992.
semele, Whitfield, 6102.
shaleri n. sp., Vaughan, 5722.
speciosa Meek and Worthen, Keyes, 3062.
spenceri n. sp., Whiteaves, 6074.
sphaerulata Conrad, Keyes, 3062.
stantoni n. sp., Vaughan, 5722.
stokesiana n. sp., Whiteaves, 6087.
subcarbonaria n. sp., Keyes, 3062.
tabulata (Conrad), Keyes, 3062.
tiontonensis n. sp., Whitfield, 6097.
townsendii n. sp., Whiteaves, 6080.
turbiniiformis Meek and Worthen, Keyes, 3062.
valeria Billings, Whiteaves, 6080.
valvatiformis Meek and Worthen, Keyes, 3062.
valaris n. sp., Whiteaves, 6080.
 ? *viola* Billings, Whiteaves, 6080.
sp., Clarke, 971.
 (?) *sp.*, Girty, 2038.
sp., Harris, 2310.
sp., Stanton, 5199.
Pleurotomella sigma, n. sp., Harris, 2316.
veatchi n. sp., Harris, 2315.
whitfieldi, Harris, 2310.
Pleurotrema n. gen., Whitfield, 6097.
solariformis n. sp., Whitfield, 6097.
Planchenia, Cope, 1079.
Planchenia Cope, Wortman, 6493.
humphresiana Cope, Wortman, 6493.
minima n. sp., Wortman, 6493.
spatula Cope, Cope, 1087.
spatula Cope, Wortman, 6493.
Plicatula Lamarck, Dall, 1272.
arenaria Meek, Herrick and Johnson, 2465.
arenaria Meek, Stanton, 5191.
densata Conrad, Dall, 1272.
densata, Whitfield, 6101.
dentonensis n. sp., Cragin, 1115.
filamentosa Conrad, Dall, 1272.

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Genera and species described—Continued.

- Plicatula filamentosa* var. *concentrica*, Dall, 1272.
 var., Harris, 2313.
gibbosa Lamarck, Dall, 1272.
hydrotheca White, Herrick and Johnson, 2465.
hydrotheca White, Stanton, 5191.
incongrua Con., Cragin, 1115.
marginata, Say, 4813.
marginata Say, Dall, 1272.
ostreiformis n. sp., Stanton, 5798.
senescens n. sp., Cragin, 1116.
senescens, Stanton, 5197.
 (?) Harris, 2310.
Plioplatecarpus, Williston, 6245.
Plochionus lesquereuxi n. sp., Seudder, 4900.
Plumulites Barrande, Matthew, 3770.
 manuelensis n. sp., Matthew, 3770.
 newberryi, Whitfield, 6099.
Poacites sp., Hollick, 2696.
Podazamites acutifolius Font.?, Fontaine, 1846.
 angustifolius (Eichw.) Schimp., Lesquereux, 3470.
 lanceolatus (L. and H.) Brongn., Lesquereux, 3470.
 stenopus n. sp., Lesquereux, 3470.
Podocrates vancouverensis n. sp., Whiteaves, 6085.
Pododesmus rudis Broderip, Dall, 1272.
 scopelus n. sp., Dall, 1272.
 (*Monia*) *macroschisma* Deshayes, Dall, 1272.
Podogonium americanum Lx., Knowlton, 3264.
Podozamites acuminatus Hollick n. sp., Newberry, 4080.
 acutifolius Font.?, Fontaine, 1847.
 angustifolius (Eichw.) Schimp., Newberry, 4080.
 ? *carolinensis* Fontaine n. sp., Ward, 5857.
 distens (Presl.) Friedrich Braun?, Ward, 5857.
 emmonsii Newberry, Ward, 5857.
 lanceolatus (Lindley and Hutton) Friedrich Braun, Ward, 5857.
 lanceolatus latifolius (Brongniart) Heer Ward, 5857.
 longifolius Emmons, Ward, 5857.
 marginatus Heer (?), Newberry, 4080.
 tenuistriatus (Rogers) Fontaine, Ward 5857.
Podurites saltator n. sp., Matthew, 3768.
Poëbrotherium Leidy, Wortman, 6493.
 labiatum Cope, Wortman, 6493.
 wilsoni Leidy, Wortman, 6493.
Pogonodon (?) sp., Williston, 6228.
Polygnathus Hinde, Grabau, 2086.
 crassus Hinde, Grabau, 2086.
 cristatus Hinde, Grabau, 2086.
 dubius Hinde, Grabau, 2086.
 linguiformis Hinde, Grabau, 2086.
 nasutus Hinde, Grabau, 2086.
 palmatius Hinde, Grabau, 2086.
 pennatus Hinde, Grabau, 2086.

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Genera and species described—Continued.

- Polygnathus princeps* Hinde, Grabau, 2086.
 punctatus Hinde, Grabau, 2086.
 solidus Hinde, Grabau, 2086.
 truncatus Hinde, Grabau, 2086.
 tuberculatus Hinde, Grabau, 2086.
 (?) *simplex* Hinde, Grabau, 2086.
Polygraphus wortheni, Seudder, 4890.
Polygyra caloosaensis n. sp., Johnson, 2910.
Polymastodon attenuatus Cope, Osborn and Earle, 4191.
 fissidens Cope, Osborn and Earle, 4191.
 selenodus n. sp., Osborn and Earle, 4191.
 taoënsis Cope, Osborn and Earle, 4191.
Polymorphina amygdaloides, Baggs, 148.
 austriaca, Baggs, 148.
 communis, Baggs, 148.
 communis (d'Orbigny), Baggs, 150.
 complanata, Baggs, 148.
 compressa (d'Orbigny), Baggs, 148, 150.
 elegantissima, Baggs, 148.
 emersoni n. sp., Baggs, 150.
 gibba (d'Orbigny), Baggs, 148, 150.
 lactea, Baggs, 148.
 lactea elongata var. Brady, Baggs, 150.
 oblonga d'Orbigny, Baggs, 150.
 orbignii (Zbórzewski), Baggs, 150.
 prelonga, Baggs, 148.
 problema (d'Orbigny), Baggs, 150.
 regularis, Baggs, 150.
Polynices (*Amauropsis*) *burnsii* n. sp., Dall, 1259.
 (*Lunatia*) *heros* Say, Dall, 1259.
 internus Say, Dall, 1259.
Polyphephus melanoides, Whitfield, 6099.
Polypora McCoy, Grabau, 2086.
Polypora Simpson, 4983.
 aspera n. sp., Rogers, 4656.
 coyotacensis n. sp., Herrick and Johnson, 2465.
 coyotensis n. sp., Herrick and Bendrat, 2464.
 elliptica n. sp., Rogers, 4656.
 flexuosa n. sp., Rogers, 4656.
 (*porosa*? var.) *manitobensis*, Whiteaves, 6074.
 multiplex Hall, Grabau, 2086.
 separata Hall (?), Clarke, 971.
 tenuiramus n. sp., Rogers, 4656.
 triangularis n. sp., Rogers, 4656.
 varsouviensis (?), Whitfield, 6099.
 sp. indes., Clarke, 971.
Polyporella cf. *compressa* Hall, Clarke, 971.
Polypsephis, Hay, 2381.
Polystomella striatopunctata, Baggs, 148.
Polytropis De Koninck, Whiteaves, 6080.
 durhamensis n. sp., Whiteaves, 6080.
 parvulus n. sp., Whiteaves, 6080.
 sulcatus Hall, Whiteaves, 6080.
Pomatospirella Bittner, Hall and Clarke, 2264.
Pontocypris pyriformis n. sp., Jones, T. R., 2935.
Populites cyclophyllus? Heer, Lesquereux, 3472.
 elegans, Lesq., Lesquereux, 3470, 3472.
 elegans Lesq. (?), Newberry, 4083.

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Genera and species described—Continued.

- Populites lancastriensis*, Lesq., Lesquereux, 3472.
litigiosus Heer, Lesquereux, 3470, 3472.
probalsamifera n. sp., Dawson, 1436.
sternbergii n. sp., Lesquereux, 3470.
winchelli n. sp., Lesquereux, 3472.
Populus acerfolia Newb., Newberry, 4083.
 (?) *apiculata* n. sp., Newberry, 4080.
auriculata n. sp., Ward, 517.
balsaminoides Goeppert, Dawson, 1448.
balsamoides Goepp, Knowlton, 3255.
berggreni Heer, Lesquereux, 3470, 3472.
cordata Newb., Newberry, 4083.
 (?) *cordifolia* Newb., Newberry, 4083.
cuneata Newb., Newberry, 4083.
cyclophylla Heer, Newberry, 4083.
daphnogenoides Ward, Knowlton, 3255.
 (?) *debeyana* Heer, Newberry, 4083.
elliptica Newb., Newberry, 4083.
elongata Newb., Newberry, 4083.
eotremuloides n. sp., Knowlton, 3246.
flabellum Newb., Newberry, 4083.
genetrix Newb., Newberry, 4083.
glandulifera Heer, Knowlton, 3255.
harkeriana n. sp., Lesquereux, 3470.
harkeriana Lesq. (?), Hollick, 2696.
hyperborea, Heer, Lesquereux, 3470.
kansaseana n. sp., Lesquereux, 3470.
lindgreni n. sp., Knowlton, 3246.
litigiosa Heer, Newberry, 4083.
meedsii n. sp., Knowlton, 3224.
melanarioides Lx., Knowlton, 3264.
microphylla Newb., Newberry, 4083.
mutabilis ovalis? Heer, Knowlton, 3264.
nebrascensis Newb., Newberry, 4083.
nervosa Newb., Newberry, 4083.
obovata n. sp., Knowlton, 3264.
occidentalis n. sp., Knowlton, 3246.
polymorpha Newb., Newberry, 4083.
potomacensis n. sp., Ward, 5846.
problematica n. sp., Knowlton, 3222.
pyrifolia n. sp., Kirchner, 3187.
rhomboidea Lesq., Newberry, 4083.
rotundifolia Newberry, Dawson, 1448.
rotundifolia Newb., Newberry, 4083.
smilacifolia Newb., Newberry, 4083.
speciosus Ward, Knowlton, 3255.
stygia Heer, Lesquereux, 3470.
 (?) *vivaria* n. sp., Knowlton, 3255.
wardii n. sp., Knowlton, 3264.
xantholithensis n. sp., Knowlton, 3255.
zaddachi, Knowlton, 3262.
 sp., Knowlton, 3264.
Porambonites Pander, Hall and Clarke, 261a, 2264.
Porcella rectinoda Win., Weller, 6006.
Porcellia crassinoda W. & W., Weller, 6006.
manitobensis, (nom. prov.), Whiteaves, 6074.
nodoso Hall, Keyes, 3062.
obliquinoda White, Weller, 6006.
 cf., *rectinoda* Win., Weller, 5994.
Porites ramosa (Lonsdale), Vaughan, 5735.
reussiana Duncan, Vaughan, 6734.
Poroblattina complexinervis, Scudder, 4895.

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Genera and species described—Continued.

- Poroblattina fossa*, Scudder, 4898.
gratiosa, Scudder, 4898.
longinqua, Scudder, 4898.
ohioensis, Scudder, 4898.
Porocrinus kentuckiensis n. sp., Miller and Gurley, 3997c.
Porocystis n. gen., Cragin, 1115.
pruniformis n. sp., Cragin, 1115.
pruniformis Cragin, Rauff, 4550.
Porthicus Cope, Crook, 1147.
lowii n. sp., Stewart, 5237.
Posidonomya? *ambigua* Win., Weller, 6006.
lasallensis n. sp., Miller and Gurley, 4002.
 ? *spertenus* n. sp., Beede, 394.
recurva n. sp., Beede, 394.
Potamides carbonicola n. sp., Cooper, 1071.
 ? *davisiana* n. sp., Cooper, 1071.
fulvarupis n. sp., Harris, 2316.
hillsboroensis Heilprin, Dall, 1259.
scalatus Heilprin, Dall, 1259.
 (*Lampanella*) *transecta* Dall, Dall, 1259.
 (*Pyrazisinus*) *acutus* n. sp., Dall, 1259.
Potamocypris affinis n. sp., Jones, 2934.
unisulcata, Jones, 2934.
Potamogeton pectinatus, Penhallow, 4336.
pusillus, Penhallow, 4336.
Poterioceras apertum Whiteaves 1889, Clarke, 953.
gracile Whiteaves, Whiteaves, 6087.
jerseyense n. sp., Miller and Gurley, 4002.
missouriense n. sp., Miller, 3995.
nobile Whiteaves, Whiteaves, 6087.
Poteriocrinus agnatus n. sp., Miller, 3992.
albersi n. sp., Miller and Gurley, 4000.
altonensis n. sp., Miller and Gurley, 3998.
amoenus n. sp., Miller, 3992.
arcanus n. sp., Miller and Gurley, 3991.
arrectarius n. sp., Miller and Gurley, 4000.
blairi n. sp., Miller and Gurley, 3998.
boonvillensis n. sp., Miller, 3992.
bozemanensis n. sp., Miller and Gurley, 4001.
broadheadi n. sp., Miller and Gurley, 3998.
cantonensis n. sp., Miller and Gurley, 3991.
circumtextus n. sp., Miller and Gurley, 3997c.
coryphaeus n. sp., Miller, 3992.
crawfordsvillensis n. sp., Miller and Gurley, 3991.
disparilis n. sp., Miller and Gurley, 3991.
douglassi n. sp., Miller and Gurley, 4001.
granuliferus n. sp., Miller and Gurley, 3991.
granilineus n. sp., Miller and Gurley, 3991.
graphicus n. sp., Miller and Gurley, 3991.
hammondi n. sp., Miller and Gurley, 3997c.
labyrinthicus S. A. Miller, Miller and Gurley, 4000.
lautus n. sp., Miller and Gurley, 4000.
maccabei n. sp., Miller and Gurley, 3997c.
 var. *decrepitus* n. sp., Miller and Gurley, 3997c.
neglectus n. sp., Miller and Gurley, 4000.
pulaskiensis n. sp., Miller and Gurley, 3999.
sampsoni n. sp., Miller and Gurley, 3998.

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- Poteriocrinus scopei Miller and Gurley, Miller and Gurley, 3997c.
 subramosus n. sp., Miller and Gurley, 3991.
 vagulus n. sp., Miller and Gurley, 3997d.
 verus n. sp., Miller and Gurley, 3991.
 (Scaphiocrinus) carinatus, Whitfield, 6098.
 Potoceras dubium n. sp., Hyatt, 2819.
 Prasopora, Simpson, 4983.
 Prasopora Nicholson and Ethridge, jr., Ulrich, 5537.
 conoidea Ulrich, Ulrich, 5537.
 contigua Ulrich, Ulrich, 5537.
 insularis n. sp., Ulrich, 5537.
 lenticularis n. sp., Ulrich, 5537.
 lycoperdon, vanuxem var., selwyni, n. var., Ami, 79.
 oculata Foord, Ulrich, 5537.
 selwyni Nicholson, Ulrich, 5537.
 simulatrix Ulrich, Ulrich, 5537.
 orientalis n. var., Ulrich, 5537.
 Precisites wardii n. gen. et sp., Knowlton, 3231.
 Primitiorallina trentonensis n. sp., Whitfield, 6100.
 Primitia Jones and Hall, Grabau, 2086.
 Primitia Jones and Holl, Ulrich, 5540.
 acadica, Matthew, 3770.
 aurora n. sp., Matthew, 3751, 3761.
 celestia n. sp., Ulrich, 5540.
 duplicata n. sp., Ulrich, 5540.
 ? fusiformis n. sp., Matthew, 3761.
 gibbera n. sp., Ulrich, 5540.
 mammata n. sp., Ulrich, 5540.
 micula n. sp., Ulrich, 5540.
 minuta, Eichwald, 1854, Clarke, 976.
 minutissima n. sp., Ulrich, 5540.
 oculata n. sp., Matthew, 3761.
 pyriformis n. sp., Matthew, 3781.
 sancti pauli n. sp., Ulrich, 5540.
 semniculum Jones, Grabau, 2086.
 tumidula n. sp., Ulrich, 5540.
 uphami n. sp., Ulrich, 5540.
 Primitiella n. gen., Ulrich, 5540.
 constricta n. sp., Ulrich, 5540.
 fillmorensis n. sp., Ulrich, 5540.
 limbata n. sp., Ulrich, 5540.
 simulans n. sp., Ulrich, 5540.
 unicornis Ulrich, Ulrich, 5540.
 Primitiopsis Jones, Grabau, 2086.
 punctulifera (Hall), Grabau, 2086.
 Prionastrea vaughani, n. sp., Gregory, 2171.
 Prioniodus Pander, Grabau, 2086.
 abbreviatus Hinde, Grabau, 2086.
 acicularis Hinde, Grabau, 2086.
 (?) alatus Hinde, Grabau, 2086.
 angulatus Hinde, Grabau, 2086.
 armatus Hinde, Girty, 2086.
 armatus, Hinde, Grabau, 2086.
 clavatus Hinde, Grabau, 2086.
 erraticus, Hinde, Grabau, 2086.
 panderi Hinde, Grabau, 2086.
 spicatus Hinde, Grabau, 2086.
 Prionocylus hyattii Stanton, Logan, 3554.
 lævianus White, Logan, 3554.
 macombi Meek, Logan, 3554.

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Genera and species described—Continued.

- Prionocylus macombi Meek, Stanton, 5191.
 woolgari Mantell, Herrick and Johnson, 2465.
 woolgari Mantell, Logan, 3554.
 wyomingensis Meek, Logan, 3554.
 wyomingensis Meek, Stanton, 5191.
 Prionomerus irvingii, Scudder, 4890.
 Prionotropis hyattii n. sp., Stanton, 5191.
 lævianus (White), Stanton, 5191.
 woolgari Meek, Logan, 3555.
 woolgari (Mantell), Stanton, 5191.
 Prismatophyllum, n. gen., Simpson, 4984.
 Prismodictya n. gen., Hall and Clarke, 2269, 2270.
 allegania n. sp., Hall and Clarke, 2269, 2270.
 amicitiæ n. sp., Hall and Clarke, 2269, 2270.
 aulophia n. sp., Hall and Clarke, 2269, 2270.
 baculum Hall (sp.), Hall and Clarke, 2269, 2270.
 banano n. sp., Hall and Clarke, 2269, 2270.
 cercidea n. sp., Hall and Clarke, 2269, 2270.
 ? choanæ n. sp., Hall and Clarke, 2269, 2270.
 cithara n. sp., Hall and Clarke, 2269, 2270.
 conradi Hall (sp.), Hall and Clarke, 2269, 2270.
 corynia n. sp., Hall and Clarke, 2269, 2270.
 filitextilis Hall (sp.), Hall and Clarke, 2269, 2270.
 narthecia n. sp., Hall and Clarke, 2269, 2270.
 palæa n. sp., Hall and Clarke, 2269, 2270.
 parallela Hall (sp.), Hall and Clarke, 2269, 2270.
 polyhedra n. sp., Hall and Clarke, 2269, 2271.
 prismatica Hall (sp.), Hall and Clarke, 2269, 2270.
 ptionia n. sp., Hall and Clarke, 2269, 2270.
 spectabilis n. sp., Hall and Clarke, 2269, 2270.
 telum Hall (sp.), Hall and Clarke, 2269, 2270.
 Prismopora, Simpson, 4983.
 Pritonema gracile Hinde, Rauff, 4548.
 Proboloceras n. gen., Clarke, 960.
 lutheri Clarke, 1885, Clarke, 960.
 Proboscidea Oehlert, Hall and Clarke, 2260.
 Proboscina Simpson, 4983.
 Proboscina Audouin, Ulrich, 5537.
 frondosa Nicholson, Ulrich, 5537.
 tumulos n. sp., Ulrich, 5537.
 Procamelus Leidy, Leidy, 3447.
 Procamelus Leidy, Wortman, 6493.
 altus n. sp., Marsh, 3690.
 gracilis Leidy, Wortman, 6493.
 lacustris n. sp., Douglas, 6540.
 leptognathus Cope n. sp., Cope, 1087.
 madisonius n. sp., Douglas, 6540.
 occidentalis Leidy, Wortman, 6493.
 robustus Leidy, Wortman, 6493.

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- *Procas verberatus*, Scudder, 4890.
- *vinculatus*, Scudder, 4890.
- Procyonodictis vulpiceps* n. sp., Wortman and Matthew, 6496.
- Prodaphaenus scotti* n. gen. and n. sp., Wortman and Matthew, 6496.
- Productella* Hall, Grabau, 2086.
- Productella* Hall, Hall and Clarke, 2260.
- *alifera* n. sp., Girty, 2038.
- *cooperensis* Swallow, Girty, 2038.
- *marquessi* n. sp., Rowley, 4674.
- *navicella* Hall, Grabau, 2086.
- *nummularis* (Win.), Weller, 6006.
- *pyxidata* (Hall), Keyes, 3062.
- *semiglobosa* Nettelroth, Girty, 2039.
- *spinulicosta* Hall, Grabau, 2086.
- *subalata* Hall?, Girty, 2039.
- *subalata* var., Girty, 2039.
- *sp.*, Girty, 2039.
- Productus* Sowerby, Hall and Clarke, 2260.
- *blairi* n. sp., Miller, 3992.
- *burlingtonensis* Hall?, Girty, 2037.
- *cestriensis* Worthen, Weller, 5986.
- *cherokcensis* n. sp., Drake, 1539.
- *cooperensis* Swall., Weller, 6006.
- *cora* d'Orb., Herrick and Bendrat, 2464.
- *cora* d'Orbigny, Keyes, 3062.
- *costatus* Sowerby, Keyes, 3062.
- *elegans*, Whitfield, 6099.
- *gallatinensis* n. sp., Girty, 2038.
- *laevicosta* White, Girty, 2038.
- *laevicostus* White, Keyes, 3062.
- *laevicostus* White, Weller, 6006.
- *longispinus* Sowerby, Keyes, 3062.
- *magnus* Meek and Worthen, Keyes, 3062.
- *nebrascensis* Owen, Keyes, 3062.
- *parviformis* n. sp., Girty, 2038.
- *pertenuis* Meek, Drake, 1539.
- *pileiformis*, Whitfield, 6099.
- *punctatus* (Martin), Keyes, 3062.
- *scabriculus* Martin, Girty, 2038.
- *semireticulatus* (Martin)?, Girty, 2037, 2038.
- *semireticulatus* (Martin), Keyes, 3062.
- *semireticulatus* Martin, Weller, 6006.
- *symmetricus* McChesney, Keyes, 3062.
- (*Marginfiera*) *adairensis* n. sp., Drake, 1539.
- Proetus* Steininger, Grabau, 2086.
- *conradi* Hall, Clarke, 971.
- *curvimarginatus* Hall, Grabau, 2086.
- *decorus*, Beecher, 366.
- *derminatus*, Foerste, 1835.
- *loganensis* Hall and Whitfield, Girty, 2038.
- *macrocephalus* Hall, Grabau, 2086.
- *missouriensis* Shumard, Keyes, 3061.
- *missouriensis*, Shumard, Lane, 3400.
- *mundulus* n. sp., Whiteaves, 6074.
- *parviusculus*, Beecher, 366.
- *parviusculus* Hall, 1866, Clarke, 952.
- *perocedens* Hall and Whitfield, Girty, 2038.
- *?placidus* n. sp., Vogdes, 5761.
- *protuderans* Hall, Girty, 2037.
- *rowi* (Green), Grabau, 2086.
- *swallovi* Shumard, Keyes, 3061.

Paleontology—Continued.

Genera and species described—Continued.

- Prognathosaurus*, Williston, 6245.
- Progonoblattina columbiana*, Scudder, 4898.
- Prolobella* n. gen., Ulrich, 5539.
- *striatula* n. sp., Ulrich, 5539.
- Promacrus cuneatus* Hall, Weller, 5994, 6006.
- *websterensis* n. sp., Weller, 5994.
- Prometopsis depilis*, Scudder, 4896.
- Promylacris harei* n. sp., Scudder, 4898.
- *rigida*, Scudder, 4898.
- *testudo*, Scudder, 4898.
- Pronophlenia* (Tipulina), Scudder, 4894.
- Pronorites Mojsisovics*, Smith, 5046.
- *cyclolobus* Phillips, var. *arkansiensis*, Smith, 5046.
- *praepermicus* Karpinsky, Smith, 5046.
- *sp. undet.*, Smith, 5046.
- Propygope Bittner*, Hall and Clarke, 2264.
- (*Dictyothyris* Douville), Hall and Clarke, 2264.
- (*Rhetina* Waagen), Hall and Clarke, 2264.
- (*Zugmayeria* Waagen), Hall and Clarke, 2264.
- Prostostega gigas* Cope, Wieband, 6128.
- Protacoides daphnogenoides* Heer, Hollick, 2696.
- Protagraulus* n. gen., Matthew, 3761.
- *priscus* n. sp., Matthew, 3761, 3781.
- Protagriocherous* n. gen., Scott, 4884.
- Protapirus obliquidens* n. sp., Wortman and Earle, 6181.
- *simplex* W. and E., Hatcher, 2336.
- *simplex* n. sp., Wortman and Earle, 6181.
- *validus* n. sp., Hatcher, 2336.
- Protarea*, James, 2881.
- Protarea Milne-Edwards* and Haime, Lambe, 3374.
- *magna* (vetusta? var.), Whiteaves, 6087.
- *vetusta*, James, 2881.
- *vetusta* Hall, Lambe, 3374.
- *vetusta* Hall sp., Winchell and Schuchert, 6318.
- Protaster* Forbes, James, 2896.
- (?) *granuliferus* Meek, James, 2896.
- *miamiensis* S. A. Miller, James, 2896.
- Protasterina* Ulrich, James, 2896.
- *imbriata* Ulrich, James, 2896.
- *flexuosa* (Miller and Dyer), James, 2896.
- Proteaphyllum reniforme* Font., Ward, 5846.
- Proteoides daphnogenoides* Heer, Newberry, 4080.
- *lanceifolius* Heer, Lesquereux, 3470.
- *major* n. sp., Dawson, 1436.
- *neillii* n. sp., Dawson, 1436.
- Protosaurus*, Case, 768.
- Prothyris meeki*, Winchell, Lane, 3400.
- Protichnites narragansettensis* n. sp., Packard, 4229.
- Protocalyptrea marshalli* n. sp., Clarke, 942.
- *styliophila* n. sp., Clarke, 942.
- Protocardia* Beyrich, Dall, 1281.
- *jamaicensis* n. sp., Dall, 1281.
- *lenis* var., Harris, 3313.
- *nicolletti* var., Harris, 2310.
- *subsimile* n. sp., Whiteaves, 6095a.
- *virginiana* Conrad, Clark, 902.

Paleontology—Continued.

Genera and species described—Continued.

- Protocardia virginiana*? Con., Harris, 2311.
(*Lophocardium*) Fischer, Dall, 1281.
sp. undet., Hill, 2539.
- Protocardium pendens* n. sp. Cragin, 1115.
stonei n. sp., Cragin, 1115.
subspingerum n. sp., Cragin, 1115.
- Protocaris* Walcott, Schuchert, 4850.
marshi, James, 2893.
- Protoceras* Marsh, Osborn and Wortman, 4179.
- Protoceras* Marsh, Scott, 4884.
celer Marsh, Marsh, 3681, 3705, 3708.
celer, Scott, 4872.
comptus n. sp., Marsh, 3682, 3708.
- Protochriacus* Scott, Matthew, 3801.
attenuatus n. sp., Osborn and Earle, 4191.
attenuatus Osborn and Earle, Matthew, 3801.
hyattianus (Cope), Matthew, 3801.
priscus (Cope), Matthew, 3801.
priscus Cope, Osborn and Earle, 4191.
simplex Cope, Osborn and Earle, 4191.
- Protodus* n. gen., Woodward, 6434.
jexi n. sp., Woodward, 6434.
- Protoficus inaequalis* Newb., Newberry, 4083.
- Protogaulus hippodus* n. gen. (sp. Cope), Riggs, 4642.
- Protogonodon* Scott, Matthew, 3800.
- Protogonodon* Scott, Osborn and Earle, 4191.
pentacus Cope, Osborn and Earle, 4191.
stenognathus n. sp., Matthew, 3801.
- Protohippus castilli* Cope, Cope, 1087.
fossulatus Cope n. sp., Cope, 1087.
insignis Leidy, Cope, 1087.
labrosus Cope, Cope, 1087.
lenticularis Cope sp. nov., Cope, 1087.
mirabilis Leidy, Cope, 1087.
pachyops Cope n. sp., Cope, 1087.
pavulus Marsh, Cope, 1087.
perditus Leidy, Cope, 1087.
placidus Leidy, Cope, 1087.
sejunctus Cope, Cope, 1087.
- Protolabis* Cope, Wortman, 6493.
mortanus n. sp., Douglas, 6540.
transmontanus Cope, Wortman, 6493.
- Protolambda* n. gen., Osborn, 4205.
hatcheri n. sp., Osborn, 4205.
- Protolenus* Matt., Matthew, 3748.
matthew, Matthew, 3761, 3789.
bi-tuberculatus n. sp., Matthew, 3761.
elegans n. gen. et sp., Matthews, 3744, 3751.
howleyi, Walc. sp.?, Matthew, 3789.
paradoxoides, Matthews, 3744, 3751, 3761.
- Protophyllum*, Dawson, 1436.
crassum, n. sp., Lesquereux, 3470.
crednerioides? Lesq., Lesquereux, 3472.
crenatum, Lesquereux, 3470.
denticulatum n. sp., Lesquereux, 3470.
dimorphum n. sp., Lesquereux, 3470.
haydenii Lesq., Lesquereux, 3470.
integerrimum n. sp., Lesquereux, 3470, 3472.
leconteanum Lesq., Lesquereux, 3470.
minus Lesq., Newberry, 4083.
multinerve Lesq., Lesquereux, 3470.

Paleontology—Continued.

Genera and species described—Continued.

- Protophyllum multinerve* Lesq., Newberry, 4083.
obovatum n. sp., Newberry, 4080.
praestans n. sp., Lesquereux, 3470.
pseudospermoides n. sp., Lesquereux, 3470.
pterospermifolium n. sp., Lesquereux, 3470.
querciforme n. sp., Hollick, 2681.
sternbergii Lesq., Lesquereux, 3470.
sternbergii Lesq., Newberry, 4083.
undulatum n. sp., Lesquereux, 3470.
- Protoreodon* Scott and Osborn, Scott, 4884.
- Protorhyncha* Hall, Hall and Clarke, 2261a, 2264.
- Protorhippus* n. gen., Wortman, 6489.
venticolus (Cope), Wortman, 6489.
- Protorthis* n. gen., Hall and Clarke, 2260.
cassinensis n. sp., Whitfield, 6106.
minima n. sp., Whitfield, 6106.
- Protosalvinia* (Sporangites) huronensis, Ami, 88.
- Protoscolex magnus* n. sp., Miller and Faber, 3994.
- Protaspyraena gigas* n. sp., Stewart, 5243.
- Protoselene* n. gen., Matthew, 3801.
opisthacus Cope, Matthew, 3801.
- Protosiphon kempianum* Matt., Matthew, 3781.
- Protosphyraena recurvirostris* n. sp., Stewart, 5240.
- Protosphyraenidae* S. Woodward, Crook, 1147.
- Protosphyraena bentonia* n. sp., Stewart, 5237.
n. sp., Stewart, 5237.
- Protospongia* Salter, Matthew, 3761.
coronata Dawson, Dawson, 1452.
cyathiformis Dawson, Dawson, 1452.
(?) cyathiformis Dawson, Rauff, 4548.
delicatula Dawson, Dawson, 1452.
minor var. distans Matthew, Rauff, 4548.
mononema Dawson, Dawson, 1452.
mononema Dawson, Rauff, 4548.
polynema Dawson, Dawson, 1452.
polynema Dawson, Rauff, 4548.
tetrenema Dawson, Dawson, 1452.
tetranema Dawson, Rauff, 4548.
(*Diagoniella*) coronata Dawson, Rauff, 4548.
- Protostega*, Case, 764, 768.
ischyra (Weiland), Weiland, 6130.
- Protowartha* n. gen., Ulrich and Scofield, 5541.
cancellata Hall, Ulrich and Scofield, 5541.
concinna n. sp., Ulrich and Scofield, 5541.
granistriata n. sp., Ulrich and Scofield, 5541.
obesa n. sp., Ulrich and Scofield, 5541.
pervoluta n. sp., Ulrich and Scofield, 5541.
planodorsata n. sp., Ulrich and Scofield, 5541.
rectangularis n. sp., Ulrich and Scofield, 5541.
subcompressa n. sp., Ulrich and Scofield, 5541.
- Protriton*, Case, 767.
- Protylopus* Wortman, Scott, 4884.
petersonii n. gen. et sp., Wortman, 6493.

Paleontology—Continued.

Genera and species described—Continued.

- Proutella*, Simpson, 4983.
Prunus (?) *acutifolia* n. sp., Newberry, 4080.
 (amygdalus)? *antecedens* n. sp., Lesquereux, 3470.
variabilis Newberry, Knowlton, 3232.
variabilis Newb., Newberry, 4083.
Prynomoeus decipiens n. sp., Ulrich, 5535.
subeuneatus n. sp., Ulrich, 5535.
Psammochinus cingulatus Clark, Clark, 892.
Psammoba (Lam.) Bowdich, Dall, 1281.
ozarkana n. sp., Harris, 2313.
 (Gobæus) *wagneri* Dall, Dall, 1281.
Psammobiidae, Dall, 1276.
Psammosolen Risso, Dall, 1281.
cumingianus Dunker, Dall, 1281.
vicksburgensis Aldrich, Dall, 1281.
 (Azor) Leach, Dall, 1281.
Psephenus luteolentus n. sp., Scudder, 4900.
Psephodus (Helodus) *politus* n. sp., Newberry, 4082.
Pseudamussium claibornense, Harris, 2313.
Pseudocopterus Lx., White, 6050.
obtusiloba (Brongn.) Lx., White, 6050.
squamosa Lx. sp., White, 6050.
 sp., White, 6050.
Pseudodanaopsis obliqua (Emmons) Fontaine, Ward, 5857.
plana (Emmons) Fontaine, Ward, 5857.
Pseudodiadema emersoni Clark, Clark, 892.
diatretum (Morton), Clark, 892.
texanum (Roemer), Clark, 892.
texanum Roemer, Cragin, 1115.
Pseudoliva ostrarupis n. sp., Harris, 2307.
ostrarupis, Harris, 2310.
 var. *pauper*, Harris, 2310.
scalina Heilp., Harris, 2310, 2316.
tuberculifera Con., Harris, 2316.
unicarinata, Harris, 2310.
vetusta, Harris, 2310, 2315, 2316.
vetusta var., Harris, 2311.
vetusta?, Whitfield, 6097.
 sp., Harris, 2310.
Pseudomonotis curta Hall, Logan, 3559.
 (?) cf. *hawni* Meek, Beede, 393.
 var. *equistriata*? sp.? nov., Beede, 393.
robusta sp.? var.? nov., Beede, 393.
tenuistriata sp.? var.? nov., Beede, 393.
Pseudopecopteris macilentia (L. and H.) Lx., White, 6049.
squamosa, Lx., White, 6049.
Pseudoperna n. gen., Logan, 3557.
attenuata n. sp., Logan, 3557.
orbicularis n. sp., Logan, 3557.
rugosa n. sp., Logan, 3557.
torta n. sp., Logan, 3557.
wilsoni n. sp., Logan, 3557.
Pseudophorus tectiformis n. sp., Whiteaves, 6074.
Pseudosphærexochus trentonensis n. sp., Clarke, 952.
Psiloconcha n. gen., Ulrich, 5539.
elliptica n. sp., Ulrich, 5535.
grandis n. sp., Ulrich, 5535.
inerrata n. sp., Ulrich, 5535.
minima n. sp., Ulrich, 5535.

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Genera and species described—Continued.

- Psiloconcha minnesotensis* n. sp., Ulrich, 5539.
sinuata Ulrich, 5535.
subovalis Ulrich, 5535.
subrecta n. sp., Ulrich, 5535.
tenuistriata n. sp., Ulrich, 5535.
Psilonychia perangulata n. gen. et sp., Ulrich, 5535.
Psilophyton grandis n. sp., Penhallow, 4333.
Psittacotherium Cope, Wortman, 6492.
multifragum Cope, Osborn and Earle, 4192.
multifragum Cope, Wortman, 6490.
Ptenoceras n. gen., Hyatt, 2819.
Pteranodon, Case, 768.
Pteranodon Marsh, 3702.
Pteranodon Williston, 6220.
Pteraspidae, Case, 766.
Pterbostichus Bonelli, Scudder, 4896.
abrogatus, Scudder, 4896.
destitutus, Scudder, 4896.
destructus, Scudder, 4896.
dormitans, Scudder, 4896.
fractus, Scudder, 4896.
gelidus, Scudder, 4896.
Pteria colymbus Bolten, Dall, 1272.
hirundo Bolten, Dall, 1272.
 var. *vitrea* Reeve, Dall, 1272.
multangula H. C. Lea, Dall, 1272.
 ? *salinensis* White, Cragin, 1115.
scopoli, Dall, 1272.
 (argentea var.?) *chipolana* Dall, Dall 1272.
Pterichide, Case, 766.
Pterinea Goldfus; Grabau, 2086.
aviculoides, Whitfield, 6099.
brisa, Foerste, 1835.
cardinata, Lane, 3400.
cincinnatiensis n. sp., Miller and Faber, 3996.
flabella (Conrad), Grabau, 2086.
flabella, Whitfield, 6099.
lobata n. sp., Whiteaves, 6074.
regatula n. sp., Miller and Faber, 3996.
similis, Whitfield, 6099.
 sp.?, Clarke, 971.
Pterinopecten Hall, Grabau, 2086.
conspectus Hall, Grabau, 2086.
hermes Hall, Grabau, 2086.
 cf. *lætus* H., Weller, 6006.
proteus n. sp., Clarke, 971.
pumilus n. sp., Clarke, 971.
sedaliensis n. sp., Miller, 3992.
signatus n. sp., Clarke, 971.
subequilateralis Hall, Clarke, 917.
undodus Hall, Grabau, 2086.
Pteris dakotensis n. sp., Lesquereux, 3470.
pennæformis Heer, Newberry, 4083.
pseudopennæformis, Hollick, 2708.
russellii Newb., Newberry, 4083.
Pterodactylus, Case, 768.
Pteronites hopkinsi n. sp., Weller, 5986.
lævis n. sp., Weller, 5986.
whitei (Win.), Weller, 6006.
Pterophyllum daleanum Ward, n. nom., Ward, 5857.
inæquale Fontaine, Ward, 5857.

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Genera and species described—Continued.

- Pterophyllum rajmahalense* Morris, Ward, 5857.
Pteropsis Conrad, Dall, 1272.
Pteropurpura postii n. sp., Dall, 1269.
 cupanioides Newb., Knowlton, 3224.
Pterospermites dentatus Heer, Newberry, 4083.
 haguei n. sp., Knowlton, 3255.
 longeacuminata n. sp., Lesquereux, 3470.
 modestus n. sp., Lesquereux, 3470.
 modestus Lesq., Hollick, 2696.
 undulatus n. sp., Knowlton, 3264.
 wardii n. sp., Knowlton, 3264.
Pterosphenus schucherti n. gen. et sp., Lucas, 3583.
Pterostichus pumpellyi n. sp., Scudder, 4900.
 walcotti n. sp., Scudder, 4900.
Pterotocrinus Lyon and Cass., Wachsmuth and Springer, 5765a.
 acutus, var. *bifurcatus* (Wetherby), Wachsmuth and Springer, 5765a.
 acutus Wetherby, Wachsmuth and Springer, 5765a.
 capitalis (Lyon), Wachsmuth and Springer, 5765a.
 chesterensis Meek and Worthen, Wachsmuth and Springer, 5765a.
 coronarius Lyon, Wachsmuth and Springer, 5765a.
 crassus Meek and Worthen, Wachsmuth and Springer, 5765a.
 depressus Lyon and Cass., Wachsmuth and Springer, 5765a.
 pyramidalis Lyon and Cass., Wachsmuth and Springer, 5765a.
Pterotocrinus chesterensis (Meek and Worthen), Keyes, 3061.
 wetherbyi n. sp., Miller and Gurley, 3997d.
Pterygometopus callicephalus Hall (sp.), Clarke, 952.
 eboraceus n. sp., Clarke, 952.
 intermedius Walcott (sp.) 1877, Clarke, 952.
 schmidti n. sp., Clarke, 952.
Ptilocella n. gen., Simpson, 4983.
Ptilodictya Lonsdale, Grabau, 2086.
Ptilodictya Simpson, 4983.
Ptilodictya Lonsdale, Ulrich, 5537.
 plumea Hall, Grabau, 2086.
Ptilodus Cope, Osborn, 4184.
Ptilopora, Simpson, 4983.
 sp., Girty, 2038.
Ptiloporella, Simpson, 4983.
Ptiloporina, Simpson, 4983.
Ptilotrypa, Simpson, 4983.
Ptomatis forbesi n. sp., Clarke, 976.
Ptychoceras, Hyatt, 3819.
 crassum Whitfield, Hyatt, 3819.
 near *crassum*, Harris, 2335.
 texanum Shum., Hyatt, 3819.
 (*Selenoceras*) *annulifer* Whitfield, 6097.
Ptychocrinus Wachsmuth and Springer, James, 2889.
 angularis Miller and Dyer, James, 2889.
 parvus Hall, James, 2889.
 splendens (S. A. Miller), Keyes, 3061.
Ptychodesma cf. *P. minor* Hall, Weller, 5994.

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Genera and species described—Continued.

- Ptychodus agassiz*, Williston, 6259.
 anonymus n. sp., Williston, 6259.
 janewayii, Williston, 6259.
 martini n. sp., Williston, 6259.
 mortoni, Williston, 6259.
 occidentalis n. sp., Williston, 6259.
 polygyrus, Williston, 6259.
 whippleyi, Williston, 6259.
Ptychonema, Simpson, 4983.
 helderbergiae Hall, Clarke, 971.
Ptychoparia, Hawle and Corda, Matthew, 3788.
 adamsi Billings sp., Matthew, 3776.
 (E.) *affinis* Walcott, Walcott, 5816.
 antiqua Salter sp., Walcott, 5816.
 (?) *attleborensis* Shaler and Foerste, Grabau, 2092.
 calymenoides (Whitfield), Berkey, 429.
 (?) *diademata* Hall sp., Walcott, 5816.
 kingi, Beecher, 366.
 limbata n. sp., Matthew, 3776.
 linnarssoni, Beecher, 366.
 llanoensis Walcott (?), Walcott, 5816.
 monile, Beecher, 366.
 penfieldi n. sp., Walcott, 5816.
 rogersi Walcott, Grabau, 2092.
 (ATops) *trilineata*, James, 2893.
 (*Lonochocephalus*) *wisconsensis*, Owen sp., Walcott, 5816.
 sp. undet., Walcott, 5816.
Ptychophyllum benedicti, n. sp., Greene, 2162c.
 gemmatum, n. sp., Greene, 2162c.
 robustum, n. sp., Greene, 2162d.
Ptychopyge ulrichi n. sp., Clarke, 952.
Ptychosiagum, Case, 768.
Ptychospira n. gen., Hall and Clarke, 2261, 2264.
Ptyctodus calceolus, Eastman, 1601.
 compressus n. sp., Eastman, 1601.
 ferox n. sp., Eastman, 1601.
 obliquus, Eastman, 1601.
 major, Eastman, 1601.
 molaris, Eastman, 1601.
 panderi n. sp., Eastman, 1601.
Ptyonius, Case, 767.
Ptysmaphora n. gen., Scudder, 4895.
 fletcheri n. sp., Scudder, 4895.
Pugnax, n. subgen., Hall and Clarke, 2261a.
 striatocostata (M. and W.) var.?, Weller, 6006.
Pugnellus fusiformis Meek, Herrick and Johnson, 2465.
 fusiformis (Meek), Stanton, 5191.
Pulchellia bentonianum n. sp., Cragin, 1115.
 mexicana n. sp., Aguilera, 57.
Pullenia multilobata n. sp., Chapman, 870.
 sphaeroides (d'Orbigny), Chapman, 870.
Pulvinulina elegans, Bagg, 148.
 haueri d'Orbigny sp., Woodward and Thomas, 567.
 karsteni (Reuss), Bagg, 150.
 menardii d'Orbigny sp., Woodward and Thomas, 6433.
 micHELINIANA (d'Orbigny), Bagg, 150.
 reticulata Reuss, var. *carinata* Bagg, Bagg, 150.

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- Pulvinulina schreibersii*, Bagg, 148.
Pupa primæva n. sp., Matthew, G. F., 3758.
Pycnoceras n. gen., Hyatt, 3819.
 apertum n. sp., Hyatt, 3819.
 calceiforme n. sp., Hyatt, 3819.
Pycnodont, Cope, 1084.
Pycnodus phaseolus, Hay, 2381.
Pycnomphalus solaroides Hall, Whiteaves, 6080.
Pycnopegma n. gen., Rauff, 4549.
 callosum n. sp., Rauff, 4549.
 pileum n. sp., Rauff, 4549.
 stromatoporoides n. sp., Rauff, 4549.
Pycnosuccus Angelin, Weller, 6002.
 americanus n. sp., Weller, 6002.
Pygope Link, Hall and Clarke, 2264.
Pyramidella, Harris, 2309.
 arenosa Conrad, Dall, 1259.
 bastropensis n. sp., Harris, 2307.
 crenulata Holmes, Dall, 1259.
 forulata n. sp., Guppy and Dall, 2210.
 (*Longchæus*) *jamaicensis* n. sp., Guppy and Dall, 2214.
Pyramimitra costata Lea, Aldrich, 73.
Pyrazisinus? *haitensis* n. sp., Guppy and Dall, 2214.
Pyrgulifera Meek, White, 6036.
 meekii n. sp., White, 6035.
 stantoni n. sp., White, 6036.
 viviparus hicksii n. sp., White, 6035.
Pyrifusus cuneus n. sp., Whitfield, 6097.
 erraticus n. sp., Whitfield, 6097.
 macfarlandi n. sp., Whitfield, 6097.
 meeki n. sp., Whitfield, 6097.
 mullicaensis? Whitfield, 6097.
 pyruloides, Whitfield, 6097.
 territus n. sp., Whitfield, 6097.
Pyrina bulloides n. sp., Cragin, 1115.
 parryi Hall, Clark, 892.
 parryi Hall, Cragin, 1115.
Pyriopecten Hall, Grabau, 2086.
 orbiculatus Hall, Grabau, 2086.
Pyritonema crassicauda n. sp., Rauff, 4548.
 fasciulus McCoy, Rauff, 4548.
 subulare (F. Roemer), Rauff, 4548.
Pyropsis bairdi M. and H., Herrick and Johnson, 2465.
 elevata, Whitfield, 6097.
 coloradoensis n. sp., Stanton, 5191.
 coloradoensis Stanton, Logan, 3554.
 maticoides n. sp., Whitfield, 6097.
 (?) *obesa* n. sp., Whitfield, 6097.
 octolirata, Whitfield, 6097.
 perlata? Whitfield, 6097.
 perula, Harris, 2310, 2311, 2316.
 rectifer, Whitfield, 6097.
 reileyi n. sp., Whitfield, 6097.
 richardsonii? Whitfield, 6097.
 trochiformis? Whitfield, 6097.
 (*Rapa?*) *corrina* n. sp., Whitfield, 6097.
 (*Rapa?*) *septenilirata*, Whitfield, 6097.
 sp., Clark, 906.
Pyrula juvenis, Harris, 2310.
 nansemondi Wagner, Dall, 1273.
 (*Fusoficula*) *texana* n. sp., Harris, 2307.

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- Pyrula* (*Fusoficula*) *texana* Har., Aldrich, 73.
Pyrus cretacea Newb., Newberry, 4083.
Quedius breweri, Scudder, 4900.
 chamberlini, Scudder, 4900.
Quercinium lamarensis n. sp., Knowlton, 3255.
Quercophyllum wyomingense n. sp., Fontaine, 1850.
 culveri n. sp., Knowlton, 3255.
Quercus, Knowlton, 3235.
 alnoides n. sp., Lesquereux, 3470.
 antiqua Newb., Newberry, 4083.
 aplegatei n. sp., Knowlton, 3262.
 argentum n. sp., Knowlton, 3263.
 banksiaefolia Newb., Newberry, 4083.
 breweri Lesquereux, Knowlton, 3262.
 castanoides Newb., Newberry, 4083.
 castanopsis Newb., Newberry, 4083.
 consimilis Newb., Knowlton, 3246, 3255, 3262.
 consimilis Newb., Newberry, 4083.
 coriacea Newb., Newberry, 4083.
 dentoni Lesquereux, Dawson, 1448.
 dentonoides n. sp., Knowlton, 3264.
 dubia Newb., Newberry, 4083.
 elliptica Newb., Newberry, 4083.
 ellipsiana Lx., Knowlton, 3255.
 johnstrupi Heer (?), Newberry, 4080.
 flexuosa Newb., Newberry, 4083.
 furcinervis americana Kn., Knowlton, 3255.
 glascoena n. sp., Lesquereux, 3470.
 gracilis Newb., Newberry, 4083.
 gronlandica Heer, Newberry, 4083.
 grossidentata n. sp., Knowlton, 3255.
 hesperia n. sp., Knowlton, 3255.
 hexagona Lesq., Lesquereux, 3470.
 holmesii Lesq., Dawson, 1436.
 idahoensis n. sp., Knowlton, 3246.
 laurifolia Newb., Newberry, 4083.
 lesquereuxiana Kn., Knowlton, 3264.
 (?) *magnifolia* n. sp., Knowlton, 3255.
 microdentata n. sp., Hollick, 2708.
 morrisoniana Lesq., Hollick, 2698.
 montanensis n. sp., Knowlton, 3264.
 (?) *novæ-caesareæ* n. sp., Hollick, 2698.
 obtusiloba, Dawson, G. M., 1418.
 obtusiloba michx., Penhallow, 4334.
 pacifica n. sp., Knowlton, 3262.
 paucidentata Newb., Newberry, 4083.
 payettensis n. sp., Knowlton, 3246.
 salicifolia Newb., Newberry, 4083.
 simplex Newb., Newberry, 4083.
 simulata n. sp., Knowlton, 3246.
 sinuata Newb., Newberry, 4083.
 spurio-ilex n. sp., Lesquereux, 3470.
 subsinuata n. sp., Knowlton, 3262.
 sullyi Newb., Newberry, 4083.
 suspecta n. sp., Lesquereux, 3470.
 turneri n. sp., Knowlton, 3263.
 wardiana n. sp., Lesquereux, 3470.
 wardiana Lx., Ward, 5856.
 weedii n. sp., Knowlton, 3255.
 yanceyi n. sp., Knowlton, 3255.
 (*Dryophyllum*) *hieracifolia*, Lesquereux, 3470.

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Genera and species described—Continued.

- Quercus* (*Dryophyllum*) *hosiana* n. sp., Lesquereux, 3470.
 (*Dryophyllum*) *rhannoides* n. sp., Lesquereux, 3470.
 sp., Knowlton, 3255, 3262.
 (?) sp.?, Hollick, 2698.
- Radiolites*, Stearns, 5210.
 adhaerens n. sp., Whitfield, 6107.
 annulosus n. sp., Whitfield, 6107.
 cancellatus n. sp., Whitfield, 6107.
 davidsoni n. sp., Hill, 2540.
 macroplacatus n. sp., Whitfield, 6107.
 maximus n. sp., Logan, 3554.
 rudis n. sp., Whitfield, 6107.
 (*Lapeirousia*) *nicholasi* n. sp., Whitfield, 6107.
- Rafinesquina* n. gen., Hall and Clarke, 2260.
Rafinesquina Hall, Winchell and Schuchert, 6319.
 alternata (Conrad Ms.) Emmons, Winchell and Schuchert, 6319.
 var. *loxorhytis* Meek, Winchell and Schuchert, 6319.
 deltoidea Conrad sp., Winchell and Schuchert, 6319.
 lata n. sp., Whiteaves, 6083, 6087.
 minnesotensis N. H. Winchell, Winchell and Schuchert, 6319.
 var. *inquassa* Sardeson, Winchell and Schuchert, 6319.
- Randomia*, Matthew, 3790.
 aurora, Matthew, 3790.
- Rangia cuneata* var. *galvestonensis* n. var., Harris, 2309.
 desmoulins, Dall, 1272.
 johnsoni Dall, Dall, 1272.
 (?) *quadridentennialis* n. sp., Harris, 2309.
 (*Perissodon*) *minor* (?), Whitfield, 6101.
 (*Rangianella*) Conrad, Dall, 1272.
- Rampana tampaensis* Dall var.?, Dall, 1272.
 tampaensis n. sp., Dall, 1272.
- Raphistoma* Hall, Ulrich and Scofield, 5541.
Raphistoma Hall, Matthew, 3789.
 affine, Foerste, 1835.
 attleboroensis Shaler and Foerste, Grabau, 2092.
 (?) *kelliensis*, n. sp., Matthew, 3789.
 lenticularis (Conrad), Keyes, 3062.
 multivolvatum n. sp., Calvin, 684.
 obtusa n. sp., Cleland, 1012.
 paucivolvatum, n. sp., Calvin, 684.
 pepinense Meek, Calvin, 684.
 peracutum n. sp., Ulrich and Scofield, 5541.
 richmondensis n. sp., Ulrich and Scofield, 5541.
 subplana Shumard, Keyes, 3062.
 tyrrellii n. sp., Whiteaves, 6074.
- Raphistomidae* n. fam., Ulrich and Scofield, 5541.
- Raphistomina* n. gen., Ulrich and Scofield, 5541.
 denticulata n. sp., Ulrich and Scofield, 5541.
 lapicida Salter, Ulrich and Scofield, 5541.
 modesta n. sp., Ulrich and Scofield, 5541.

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Genera and species described—Continued.

- Raphistomina rugata* n. sp., Ulrich and Scofield, 5541.
- Raufella* Ulrich, Winchell and Schuchert, 6318.
 filosa Ulrich, Winchell and Schuchert, palmipes Ulrich, Winchell and Schuchert, 6318.
- Receptaculites*, James, 2881.
Receptaculites De France, Whitfield, 6102.
Receptaculites DeFrance, Winchell and Schuchert, 6318.
 circularis, James, 2881.
 devonicus, Whitfield, 6099.
 dickhauti, James, 2881.
 dixonensis n. sp., Miller and Gurley, 4002.
 elrodi n. sp., Miller, 3995.
 fungosus, Whitfield, 6102.
 globularis, Whitfield, 6102.
 hemisphericus, Whitfield, 6102.
 infundibulum, Whitfield, 6102.
 infundibuliformis Eaton, Girty, 2034.
 neptuni, Girty, 2034.
 oweni, Girty, 2034.
 oweni Hall, Keyes, 3061.
 oweni, Whitfield, 6102.
 oweni Hall; Winchell and Schuchert, 6318.
 pearyi n. sp., Whitfield, 6112.
 reticulatus, James, 2881.
- Remeleceras* n. gen., Hyatt, 2819.
 clarkense n. sp., Miller and Gurley, 4003.
 impressum, Hyatt, 2819.
- Remondia* Gabb, Stanton, 5202.
 furcata Gabb, Stanton, 5202.
 robbinsi (White), Stanton, 5202.
- Reniera* (?), Merrill, 3969.
- Rehnselaria* Hall, Hall and Clarke, 2261a, 2264.
 cayuga n. sp., Hall and Clarke, 2261a, 2263, 2268.
 ovoides Eaton, Clarke, 971.
 ovulum, Hall and Clarke, 2268.
 (Beachia Hall), Hall and Clarke, 2264.
- Reptaria Rolle*, Grabau, 2086.
- Reptaria*, Simpson, 4983.
 stolonifera Rolle, Grabau, 2086.
- Requiemia texana* (?) (Roemer), Hill, 2539.
- Resania* Gray, Dall, 1272.
- Reteocrinus* Billings 1859, James, 2889.
 alveolatus n. sp., Miller and Gurley, 3997c.
 cognatus S. A. Miller, James, 2889.
 gracilis Wetherby, James, 2889.
 magnificus S. A. Miller, James, 2889.
 o'nealli Hall, James, 2889.
- Reteograptus geinitzianus* Hall, Gurley, 2217.
- Reteporella* n. gen., Simpson, 4980, 4983.
- Reteporina* d'Orbigny, Grabau, 2086.
- Retoporina*, Simpson, 4983.
 striata Hall, Grabau, 2086.
 sp. indes, Clarke, 971.
- Reticularia cooperensis* Swallow, Girty, 2038.
 cooperensis var., Girty, 2038.
 cooperensis (Swall.), Weller, 6006.
 (?) *peculiaris* Shumard, Girty, 2038.
 perplexa (McChesney), Girty, 2037.
 (?) *subrotunda* Hall, Girty, 2038.
- Retusa chipolana* n. sp., Dall, 1269.

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- Retusa duplinensis* n. sp., Dall, 1269.
microtrema n. sp., Dall, 1269.
quercinensis n. sp., Dall, 1269.
(Cylichnina) decapitata n. sp., Dall, 1269.
Retzia King, Hall and Clarke, 2261, 2264.
circularis n. sp., Miller, 3995.
formosus, Whitfield, 6099.
mormoni (Marcou), Keyes, 3062.
plicata n. sp., Miller, 3995.
? ruricosta n. sp., Rowley, 4677a.
triangulus n. sp., Miller, 3995.
Rhabdocarpus multistriatus (Presl.) Lx., White, 6050.
 (Pachytesta) mansfieldi Lx., White, 6050.
Rhabdognium roemeri Reuss, Baggs, 150.
 tricarinatum (d'Orbigny), Baggs, 150.
 var. *acutangulum* Reuss, Baggs, 150.
Rhabdomeson americanum n. sp., Rogers, 4658.
Rhabdospongia n. gen., Hall and Clarke, 2269, 2270.
 amalthaea Hall (sp.), Hall and Clarke, 2269, 2270.
 condroziana n. sp., Hall and Clarke, 2269, 2271.
Rhacophyllites (?) *alamitosensis* n. sp., Aguilera, 57.
 calderoni n. sp., Aguilera, 57.
 (?) *disputabile* n. sp., Aguilera, 57.
Rhadinobrochus n. gen., Scudder, 4894.
 extinctus, Scudder, 4894.
Rhadinoceras n. gen., Hyatt, 2819.
 hyatti, Hyatt, 2819.
Rhamnacinium radiatum Felix, Knowlton, 3255.
Rhammites apiculatus n. sp., Lesquereux, 3470.
 concinus Newb., Newberry, 4083.
 minor Hollick n. sp., Newberry, 4080.
Rhamnus cleburni Lx., Hollick, 2708.
 elegans Newb., Newberry, 4083.
 ellipticus n. sp., Kirchner, 3187.
 eridani Ung., Newberry, 4083.
 inaequilateralis n. sp., Lesquereux, 3470.
 inaequilateralis Lesq., Hollick, 2698.
 mudgei n. sp., Lesquereux, 3470.
 prunifolius Lesq., Lesquereux, 3470.
 revoluta n. sp., Lesquereux, 3470.
 salicifolius Lx., Knowlton, 3264.
 similis n. sp., Lesquereux, 3470.
Rhamphidia Meigen, Scudder, 4894.
 facaria, Scudder, 4894.
 lœwi, Scudder, 4894.
 saxetana Scudder, 4894.
Rhamphorynchus, Case, 768.
Rhaphidiopsis n. gen., Scudder, 4892.
 diversipenna, Scudder, 4892.
Rhectopsammia clabornensis n. sp., Vaughan, 5735.
Rhegnopsis palæatlantici Leidy, Cope, 1100.
Rhinidictya, Simpson, 4983.
Rhinidictya Ulrich, Ulrich, 5537.
 exigua Ulrich, Ulrich, 5537.
 fidelis Ulrich, Ulrich, 5537.
 grandis n. sp., Ulrich, 5537.

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- Rhinidictya minima* Ulrich, Ulrich, 5537.
 var. *modesta* n. var., Ulrich, 5537.
 mutabilis Ulrich, Ulrich, 5537.
 var. *major*, Ulrich, 5537.
 var. *senilis* n. var. Ulrich, 5537.
 neglecta n. sp., Ulrich, 5537.
 paupera Ulrich, Ulrich, 5537.
 pendiculata n. sp., Ulrich, 5537.
 trentonensis Ulrich, Ulrich, 5537.
 n. sp., Whiteaves, 6087.
Rhinidictyonidae n. fam., Ulrich, 5537.
Rhinobolus Hall, Hall and Clarke, 2260.
 dauidsoni n. sp., Hall and Clarke, 2260, 2268.
 galtensis Billings, Whiteaves, 6080.
 sp. undet., Whiteaves, 6080.
Rhinocantha? *conradi* n. sp., Whitfield, 6097.
Rhinocaris, Clarke, 939.
Rhinocaris (?) *bipennis* n. sp., Clarke, 958.
Rhinoceros matutinus, Marsh, 3681.
Rhinopora, Simpson, 4983.
 prima n. sp., Whitfield, 6106.
Rhipidomella Oehlert, Grabau, 2086.
Rhipidomella Oehlert, Hall and Clarke, 2260.
 burlingtonensis (Hall), Weller, 5994.
 cyclas Hall, Grabau, 2086.
 diminutiva n. sp., Rowley, 4677a.
 idonea Hall, Grabau, 2086.
 leucosia Hall, Grabau, 2086.
 melchlini Léveillé, Girty, 2038.
 oblata Hall, Clarke, 971.
 oblata Hall, Girty, 2037.
 var. *emarginata* Hall, Girty, 2037.
 penelope Hall, Grabau, 2086.
 vanuxemi Hall, Grabau, 2086.
Rhipidopterygia Cope, 1076.
Rhizodopsis mazonius n. sp., Hay, 2388.
Rhizodus, Hay, 2381.
Rhizomorpha, Hollick, 2696.
Rhizostomites admirandus Haeckel, Walcott, 5811.
 lithographicus Haeckel, Walcott, 5811.
Rhodocrinus benedicti n. sp., Miller, 3995.
 blairi n. sp., Miller and Gurley, 4000.
 bozemanensis n. sp., Miller and Gurley, 4003.
 bridgerensis n. sp., Miller and Gurley, 4003.
 celatus n. sp., Miller and Gurley, 3991.
 coxanus Worthen, Keyes, 3061.
 douglassi n. sp., Miller and Gurley, 4003.
 sculptus n. sp., Miller and Gurley, 3991.
 wachsmuthi Hall, Keyes, 3061.
 whitei Hall, Keyes, 3061.
 wortheni (Hall), Keyes, 3061.
Rhœchinus burlingtonensis, Jackson, 2871.
 elegans, Jackson, 2871.
 gracilis, Jackson, 2871.
Rhombocladia n. gen., Rogers, 4656.
 delicata n. sp., Rogers, 4656.
Rhombodictyon globosus n. sp., James, 2881.
Rhombopora Meek, Grabau, 2086.
Rhombopora, Simpson, 4983.
 hexagona (Hall), Grabau, 2086.
 immersa Hall, Grabau, 2086.

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Genera and species described—Continued.

Rhombopora lepidodendroides Meek, Keyes, 3062.

lineata Hall, Grabau, 2086.

polygona (Hall), Grabau, 2086.

reticulata (Hall), Grabau, 2086.

tortalinia, Grabau, 2086.

(?) *transversa* (Hall), Grabau, 2086.

Rhopalonaria, Simpson, 4983.

Rhopalodon, Case, 768.

Rhus frigida n. sp., Knowlton, 3232.

membranacea Lx., Knowlton, 3264.

mixta Lesquereux, Knowlton, 3262.

(?) *nervosa* Newb., Newberry, 4083.

? *nevadensis* n. sp., Knowlton, 3263.

payettensis n. sp., Knowlton, 3246.

powelliana n. sp., Lesquereux, 3470.

rotundifolia n. sp., Kirchner, 3187.

uddeni n. sp., Lesquereux, 3470.

uddeni Knowlton, 3234.

westii n. sp., Lesquereux, 3470.

Rhynchites subterraneus, Scudder, 4890.

Rhynchodus excavatus, Eastman, 1601.

major n. sp., Eastman, 1601.

occidentalis, Eastman, 1601.

rostratus n. sp., Eastman, 1601.

secans, Eastman, 1601.

Rhynchonella Fischer de Waldheim, Hall and Clarke, 2261a, 2264.

Rhynchonella, Herrick and Johnson, 2465.

anticostiensis var., Whiteaves, 6087.

? *anticostiensis* Billings, Winchell and Schuchert, 6319.

barquensis, Win., Lane, 3400.

boonensis Shumard, Keyes, 3062.

capax (Conrad), Keyes, 3062.

colletti n. sp., Miller, 3995.

dentata (Hall), Keyes, 3062.

gnathopora Meek, Stanton, 5206.

hydraulicum, Whitfield, 6099.

kokomoensis n. sp., Miller, 3995.

lacur osa var. *apolica* Oppel, Aguilera, 57.

mainensis Bill., Williams, 6190.

missouriensis Shumard, Keyes, 3062.

mutata Hall, Weller, 5986.

myrina Hall and Whitfield, Stanton, 5206.

nucleolata Hall, Williams, 6190.

pyramidata Hall, Williams, 6190.

raricosta, Whitfield, 6099.

schucherti n. sp., Stanton, 5199.

scobina, Foerste, 1835.

subcircularis, Lane, 3400.

suciensis n. sp., Whiteaves, 6085.

uta (Marcou), Keyes, 3062.

vellicata Hall, Williams, 6190.

whitneyi Gabb, Stanton, 5199.

sp. undet., Weller, 6006.

Rhynchonellina Gemellaro, Hall and Clarke, 2264.

Rhynchopora King, Hall and Clarke, 2261a, 2264.

Rhynchopora Dalman, Hall and Clarke, 2264.

Rhynchopora Oehlert, Hall and Clarke, 2264.

Rhynchospira Hall, Hall and Clarke, 2264.

(*Homœospira* Hall), Hall and Clarke, 2264.

formosa (Hall), Girty, 2037.

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Rhynchospira scausa, Hall and Clarke, 2268.

Rhyncotreta Hall, Hall and Clarke, 2261a, 2264.

Rhyncorthoceras, Hyatt, 2819.

Rhynchotrema Hall, Hall and Clarke, 2261a, 2264.

Rhynchotrema Hall, Winchell and Schuchert, 6319.

ainsliei N. H. Winchell, Winchell and Schuchert, 6319.

capax Conrad sp., Winchell and Schuchert, 6319.

inaequivalvis Castelnau, Winchell and Schuchert, 6319.

var. *laticostata* W. and S., Winchell and Schuchert, 6319.

inaequivalvis var. *laticostata*, Winchell and Schuchert, 2298.

Rhynoceroses, Osborn and Wortman, 4189.

Rhynochospira Hall, Hall and Clarke, 2261.

Rhytimya Ulrich, Ulrich, 5539.

byrnesi, Ulrich, 5535.

compressa n. sp., Ulrich, 5535.

convexa n. sp., Ulrich, 5535.

mickleboroughi, Ulrich, 5535.

ochana n. sp., Ulrich, 5535.

producta n. sp., Ulrich, 5535.

radiata n. sp., Ulrich, 5535.

recta n. sp., Whiteaves, 6087.

sinuata n. sp., Ulrich, 5539.

Rhysosternum n. gen., Scudder, 4890.

aeternabile, Scudder, 4890.

longirostre, Scudder, 4890.

Rhyssomatus tabescens, Scudder, 4890.

Rhytophorus meekii, White, White, 6036.

priscus Meek, White, 6036.

Ribeiria (?) *nuculitiformis* n. sp., Cleland, 1012.

nuculitiformis var. *equilatera* (?), Cleland, 1012.

Ricania antiqua, Scudder, 4895.

Richthofenia Kayser, Hall and Clarke, 2261a, 2264.

Rinaceras n. gen., Hyatt, 2816.

Rinella texana n. sp., Harris, 2307.

var. *plena* n. var., Harris, 2307.

Ringicula alabamensis n. sp., Aldrich, 74.

biplicata, Aldrich, 74.

butleriana n. sp., Aldrich, 73, 74.

var. *lignitifera* n. var., Aldrich, 74.

butleriana Ald., Harris, 2316.

butleriana var. *lignitifera* Ald., Harris, 2316.

chipolana n. sp., Dall, 1269.

claibornensis n. sp., Aldrich, 74.

dalli n. sp., Clark, 904, 906.

dalli, Aldrich, 74.

guppyi Dall (*floridana* var.?), Dall, 1259.

lisbonensis n. sp., Aldrich, 74.

mississippiensis, Aldrich, 74.

semilimata n. sp., Dall, 1269.

trapaquara n. sp., Harris, 2307.

trapaquara, Aldrich, 74.

Rissoa athymorhyssa n. sp., Dall, 1259.

lipeus n. sp., Dall, 1259.

(*Alvania*) *pariana* n. sp., Guppy and Dall, 2214.

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- Rissoa (Onoba) callistrophia n. sp., Dall, 1259.
 (Onoba) gerrea n. sp., Dall, 1259.
 gerrea var. minor, Dall, 1259.
 microharia n. sp., Dall, 1259.
- Rissoina alabamensis n. sp., Aldrich, 73.
 alabamensis Harris, 2310.
 chipolana n. sp., Dall, 1259.
 johnsoni n. sp., Dall, 1250.
 levigata Adams, Dall, 1259.
- Rochefortia Vélain, Dall, 1281.
 bidentata Montagu, Dall, 1281.
 planulata Stimpson, Dall, 1281.
 stantoni n. sp., Dall, 1281.
 stimpsoni n. sp., Dall, 1281.
- Roemerella n. subgen., Hall and Clarke, 1260.
 Roemerispongia n. gen., Hall and Clarke, 2269, 2270.
 gerolsteinensis F. Roemer (sp.), Hall and Clarke, 2269, 2270.
- Romingeria, Girty; 2032.
- Romingeria Nicholson, Lambe, 3374.
 umbellifera Billings (sp.), Lambe, 3374.
- Romingerina n. gen., Hall and Clarke, 2261a.
 [Centronella] julia, Lane, 3400.
- Rondairia quadrans n. sp., Cragin, 1116.
- Rosmarus sosmarus, Rhoads, 4586.
 virginianus (De Kay), Rhoads, 4586.
- Rostellaria compacta n. sp., Whitfield, 6097.
 curta n. sp., Whitfield, 6097.
 fusiformis n. sp., Whitfield, 6097.
 hebe n. sp., Whitfield, 6097.
 nobilis n. sp., Whitfield, 6097.
 spirata n. sp., Whitfield, 6097.
 (Orthaulax) Gabb, Dall, 1259.
 gabbi n. sp., Dall, 1259.
 pugnax Heilprin, Dall, 1259.
 (Rimella) smithii n. sp., Dall, 1259.
- Rostellites ambigua Stanton, Herrick and Johnson, 2465.
 ambigua n. sp., Stanton, 5191.
 ambigua ? Stanton, Logan, 3554.
 angulatus n. sp., Whitfield, 6097.
 biconicus n. sp., Whitfield, 6097.
 dalli Stanton, Herrick and Johnson, 2465.
 dalli n. sp., Stanton, 5191.
 gracilis Stanton, Herrick and Johnson, 2465.
 gracillis n. sp., Stanton, 5191.
 nasutus, Whitfield, 6097.
 pupoides n. sp., Cragin, 1116.
 texturatus n. sp., Whitfield, 6097.
 willistonii n. sp., Logan, 3554.
- Rotalia beccarii, Bagg, 148.
 orbicularis, Bagg, 148.
 orbicularis d'Orbigny, Chapman, 870.
 soldanii, Bagg, 148.
- Roudairia denisonensis n. sp., Cragin, 1118.
 (?) quadrans, Stanton, 5197.
- Rusophycus chesterense n. sp., Miller and Gurley, 4003.
 montanense n. sp., Miller and Gurley, 4003.
- Sabal campbelli Newb., Newberry, 4083.
 campbellii Newberry, Dawson, 1448.
 grandifolia Newb. n. sp., Newberry, 4083.
 imperialis Dn., Dawson, 1436.

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- Sabal imperialis Dn., Newberry, 4083.
 powelli Newb., Newberry, 4083.
- Sabalites grayanus Lx., Knowlton, 3264.
- Saccocrinus benedicti n. sp., Miller, 3995.
 gorbyi n. sp., Miller, 3992.
 howardi n. sp., Miller, 3995.
 umbrosus n. sp., Miller and Gurley, 3997d.
- Sacculina purpurea, Beecher, 366.
- Saffordia n. gen., Ulrich, 5539.
 modesta Ulrich, Ulrich, 5539.
 sulcodorsata Ulrich, Ulrich, 5539.
 ventralis n. sp., Ulrich, 5539.
- Sagenella, Simpson, 4983
- Sagenodus, Hay, 2388.
 brownlae n. sp., Cope, 1103.
 conchirolepis n. sp., Cope, 1103.
 copeanus n. sp., Williston, 6254.
 emmonsii Fontaine n. sp., Ward, 5857.
 foliatus n. sp., Cope, 1103.
 foliatus Cope, Hay, 2388.
 fossatus Cope, Case, 773.
 gurleyanus Cope, Case, 773.
 gurleyanus n. sp., Cope, 1103.
 heterolophus Cope, Case, 773.
 iacovianus n. sp., Cope, 1103.
 iacovianus Cope, Hay, 2388.
 magister n. sp., Cope, 1103.
 nilsoniana (Brongniart) Ward, n. comb., Ward, 5857.
 occidentalis Newb., Cope, 1103.
 occidentalis (Newb. and Worth.), Hay, 2388.
 paucicristatus Cope, Case, 773.
 pusillus Cope, Case, 773.
 quadratus (Newb.), Hay, 2388.
 quincunciatas n. sp., Cope, 1103.
 quincunciatas Cope, Hay, 2388.
 reticulatus Newberry, Cope, 1103.
 reticulatus (Newb. and Worth.), Hay, 2388.
 textilis, Hay, 2381, 2388.
 vabasensis Cope, Case, 773.
 vinslovii Cope, Case, 773.
 sp. Fontaine, Ward, 5857.
- Sagittaria latifolia Willd., Ward, 5846.
 victor-masoni n. sp., Ward, 5846.
- Salenia bellula Clark, Clark, 892.
 texana Credner, Clark, 892.
 texana Credn., Cragin, 1115.
 tumidula Clark, Clark, 892.
- Salik minuta n. sp., Knowlton, 3232.
- Salisburia pusilla n. sp., Dawson, 1436.
- Salix, Dawson, 1436.
 angusta Al. Br., Knowlton, 3246, 3263, 3264.
 angusta Al. Br.?, Newberry, 4083.
 cuneata Newb., Newberry, 4083.
 delata n. sp., Lesquereux, 3470.
 flexuosa Lesq., Hollick, 2695.
 flexuosa Newb., Newberry, 4083.
 foliosa Newb. n. sp., Newberry, 4083.
 hayei n. sp., Lesquereux, 3470.
 inaequalis n. sp., Newberry, 4080.
 inaequalis Newb., Hollick, 2696.
 integra Goeppert, Dawson, 1448.
 meekii Newb., Hollick, 2698.
 meekii Newb., Newberry, 4080.

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- Salix membranacea* Newb., Newberry, 4080, 4083.
newberryana Hollick n. sp., Newberry, 4080.
proteæfolia lanceolata Lesq., Hollick, 2695.
proteæfolia Lesq., Newberry, 4080.
proteæfolia var. *flexuosa* Lesq., Lesquereux, 3470.
 var. *lanceolata* Lesq., Lesquereux, 3470.
 var. *linearfolia* Lesq., Lesquereux, 3470.
 var. *longifolia* Lesq., Lesquereux, 3470.
purpureoides n. sp., Hollick, 2672.
stantoni n. sp., Knowlton, 3264.
vaccinifolia n. sp., Knowlton, 3263.
varians Goepfert, Dawson, 1448.
varians Heer, Knowlton, 3255.
 sp., Knowlton, 3264.
 sp.?, Newberry, 4080.
Salpingostoma Roemer, Ulrich and Scofield, 5541.
 buelli Whitfield, Ulrich and Scofield, 5541.
 imbricatus n. sp., Ulrich and Scofield, 5541.
 richmondensis n. sp., Ulrich and Scofield, 5541.
 sculptilis n. sp., Ulrich and Scofield, 5541.
Salterella curvatus Shaler and Foerste, Grabau, 2092.
Salvinia elliptica Newby. n. sp., Hollick, 2673.
Sampsonocrinus n. gen., Miller and Gurley, 3998.
 hemisphericus n. sp., Miller and Gurley, 3998.
Sandalodus ellipticus n. sp., Newberry, 4082.
Sandbergeroceras Hyatt, Clarke, 960.
 syngonum n. sp., Clarke, 960.
Sanguinolaria Lamarck, Dall, 1281.
 unioides n. sp., Guppy and Dall, 2214.
Sanguinolites borealis, Lane, 3400.
 borealis? Winchell, Lane, 3400.
 michiganensis Herrick, Lane, 3400.
 websterensis n. sp., Weller, 5994.
 sp.?, Weller, 5986.
Sannionites (Cameroceras) *trentonense*, Hyatt, 2820.
Sao hirsuta, Beecher, 366.
Saperdirhynchus n. gen., Scudder, 4890.
 priscotitillator, Scudder, 4890.
Sapindopsis variabilis Fontaine, Fontaine, 1850.
Sapindus affinis Newby., Knowlton, 3255.
 affinis Newb., Newberry, 4083.
 angustifolius Lx., Hollick, 2708.
 apiculatus Vel., Hollick, 2698.
 diversifolius n. sp., Lesquereux, 3470.
 grandifolius Ward, Knowlton, 3255.
 grandifolioloides n. sp., Knowlton, 3255.
 (?) *membranaceus* Newb., Newberry, 4083.
 morrisoni Lesq., Hollick, 2696.
 morrisoni Lesq., Lesquereux, 3470, 3472.
 wardii n. sp., Knowlton, 3255.
Sapocites haydenii Heer, Newberry, 4083.
Sapotacites americanus Lx., Hollick, 2708.

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- Sapotacites retusus* Heer, Newberry, 4080.
Sarcothraustes Cope, Matthew, 3801.
 antiquus Cope, Matthew, 3801.
 antiquus Cope, Osborn and Earle, 4191.
 coryphæus Cope, Osborn and Earle, 4191.
Sarepta A. Adams, Dall, 1272.
Sassafras acutilobum Lesq. (?), Hollick, 2698.
 acutilobum Lesq., Newberry, 4083.
 cretaceum Newb., Newberry, 4083.
 cretaceum var. *obtusum*, Knowlton, 3234.
 hastatum n. sp., Newberry, 4080.
 mudgei, Knowlton, 3234.
 mudgii Lx., Ward, 5856.
 primordiale n. sp., Lesquereux, 3470.
 progenitor n. sp., Newberry, 4080.
 recurvatum (Lesq.) Newb., Newberry, 4083.
 subintegrifolium Lesq., Lesquereux, 3470.
 (Araliopsis) *cretaceum* Newb., var. *Grosse-dentatum* Lesq., n. var. Lesquereux, 3470.
 dissectum Lesq., Lesquereux, 3470.
 (Araliopsis) *dissectum symmetricum* n. var. Hollick, 2681.
 papillosum n. sp., Lesquereux, 3470.
Sauranodon natans, Marsh, 3695.
Saurocephalus dentatus n. sp., Stewart, 5237.
 lanciformis, Hay, 2383.
 pamphagus n. sp., Hay, 2383.
Saurodon ferox n. sp., Stewart, 5239.
 xiphirostris n. sp., Stewart, 5239.
Sauropleura latithorax n. sp., Cope, 1103.
Sauropoda, Marsh, 3717.
Saxicava Fleuriau de Bellevue, Dall, 1272.
 arctica Linné, Dall, 1272.
 billineata, Whitfield, 6101.
 myæformis, Whitfield, 6101.
 paralis, Whitfield, 6101.
Saxinis regularis n. sp., Scudder, 4900.
Sbenaphis Scudder, Scudder, 4895.
 quesneli, Scudder, 4895.
Scævogyra Whitfield, 1878, Berkey, 429.
 minnesotensis n. sp., Berkey, 429.
Scala, Harris, 2316.
 exquisita n. sp., Aldrich, 74.
 exquisita, Ald., Harris, 2316.
 galvestonensis n. sp., Harris, 2309.
 octolineata Con., Aldrich, 74.
 unilineata, Aldrich, 74.
 virginiana n. sp., Clark, 904, 906.
 (Opalia) H. and A. Adams, Dall, 1259.
 de-bouryi Dall, Dall, 1259.
 (Stemorytis) *stearnsii*, Dall, 1259.
 sp., Harris, 2310.
Scalaria hercules n. sp., Whitfield, 6097.
 multistriata, Whitfield, 6101.
 pauperata n. sp., Whitfield, 6097.
 sillimani, Whitfield, 6097.
 tenuilrata n. sp., Whitfield, 6097.
 (Opalia) *thomasi*?, Whitfield, 6097.
Scalaripora, Simpson, 4983.
Scalarituba missouriensis n. gen. et. sp., Weller, 5994.
Scapanorhynchus raphiodon, Williston, 6259.
Scaphander Montfort, Dall, 1259.

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- Scaphander alabamensis* n. sp., Aldrich, 73.
alabamensis Ald., Harris, 2316.
floridana Heilprin, Dall, 1259.
langdoni n. sp., Dall, 1269.
ligniticus n. sp., Aldrich, 74.
ligniticus Ald., Harris, 2316.
primus Ald., Aldrich, 73.
primus Aldrich, Dall, 1259.
Scapharca subrostrata, Whitfield, 6101.
subrostrata Conrad, Dall, 1272.
 (Anadara) *aresta* n. sp., Dall, 1272.
 campsa n. sp., Dall, 1272.
 catasarca n. sp., Dall, 1272.
 elisea n. sp., Dall, 1272.
 rustica Tuomey and Holmes, Dall, 1272.
 (Argina) *tolepis* n. sp., Dall, 1272.
campechensis Dillwyn, Dall, 1272.
 (Bathyarca) *hendersoni* n. sp., Dall, 1272.
 spenceri n. sp., Dall, 1272.
 (Cunearca) *alcima* n. sp., Dall, 1272.
cumanensis, Dall, 1272.
incongrua Say, Dall, 1272.
initiator n. sp., Dall, 1272.
scalarina Heilprin, Dall, 1272.
scalaris Conrad, Dall, 1272.
 (Scapharca) *acompsa* n. sp., Dall, 1272.
actinophora n. sp., Dall, 1272.
arata Say, Dall, 1272.
auriculata Lamarek, Dall, 1272.
callicostosa n. sp., Dall, 1272.
campyla n. sp., Dall, 1272.
carolinensis Wagner, Dall, 1272.
chiriquiensis Gabb, Dall, 1272.
dodona n. sp., Dall, 1272.
donacia n. sp., Dall, 1272.
halidonata n. sp., Dall, 1272.
hypomeia n. sp., Dall, 1272.
idonea Conrad, Dall, 1272.
improcera Conrad, Dall, 1272.
inequilateralis Guppy, Dall, 1272.
latidentata, Dall, 1272.
lesneuri Dall, Dall, 1272.
lineosa Say, Dall, 1272.
plicatura Conrad, Dall, 1272.
santarosana n. sp., Dall, 1272.
staminata n. sp., Dall, 1272.
staminea Say, Dall, 1272.
subsinnata Conrad, Dall, 1272.
traversa Say, Dall, 1272.
triphera n. sp., Dall, 1272.
Scaphella demissa Con. var., Harris, 2316.
heilprini, Harris, 2316.
showalteri, Harris, 2310.
trenholmii Tuomey and Holmes, Dall, 1259.
 (Aurinia) *mutabilis* Conrad, Dall, 1259.
 virginiana Conrad, Dall, 1259.
 (Aurinia?) *striata* Gabb, Dall, 1259.
 (Caricella) *leana* Dall, Dall, 1259.
 podagrina, Dall, 1259.
 subangulata Conrad, Dall, 1259.
 sp., Harris, 2310.
Scaphiocella Whitfield, Hall and Clarke, 2261a.

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- Scaphiocrinus arboreus* Worthen, Springer, 5163.
arrosus n. sp., Miller and Gurley, 3997a.
bellus n. sp., Miller and Gurley, 3991.
bonoensis n. sp., Miller and Gurley, 3991.
borbyi n. sp., Miller, 3992.
lacunosus n. sp., Miller and Gurley, 3991.
lyoni n. sp., Miller, 3995.
maniformis n. sp., Miller, 3995.
manus n. sp., Miller and Gurley, 3991.
martinensis n. sp., Miller and Gurley, 3997a.
missouriensis (Shumard), Keyes, 3061.
missouricasis Shumard, Springer, 5163.
notatus n. sp., Miller and Gurley, 4000.
premorsus n. sp., Miller and Gurley, 3991.
reptus n. sp., Miller and Gurley, 3991.
robustus (?) Hall, Miller, 3992.
rusticellus (White), Keyes, 3061.
samsoni n. sp., Miller, 3992.
swalovi, Springer, 5163.
unicus Hall, Springer, 5163.
 ? *washburni* n. sp., Beede, 397.
 sp., Girty, 2038.
Scaphites, Hyatt, 2819.
Scaphites, Logan, 3555.
hippocrepis, Whitfield, 6097.
iris, Whitfield, 6097.
larvæformis M. and H., Logan, 3554.
larvæformis Meek and Hayden, Stanton, 5191.
mullananus M. and H., Logan, 3554.
mullananus M. and H., Stanton, 5191.
nodosus, Logan, 3555.
nodosus, Whitfield, 6097.
reniformis, Whitfield, 6097.
septem-seriatus n. sp., Cragin, 1115.
similis n. sp., Whitfield, 6097.
ventricosus M. and H., Logan, 3554.
ventricosus M. and H., Stanton, 5191.
vermiformis M. and H., Logan, 3554.
vermiformis M. and H., Stanton, 5191.
warreni M. and H., Logan, 3554.
warreni M. and H., Stanton, 5191.
warrenii M. and H., Stanton, 5191.
Scaphognathus, Case, 763.
Scenella Billings, Matthew, 3790.
Scenella, Ulrich and Scofield, 5541.
affinis n. sp., Ulrich and Scofield, 5541.
beloitensis n. sp., Ulrich and Scofield, 5541.
compressa n. sp., Ulrich and Scofield, 5541.
magnifica n. sp., Ulrich and Scofield, 5541.
obtus Sardeson, Ulrich and Scofield, 5541.
radialis n. sp., Ulrich and Scofield, 5541.
reticulata Billings, Grabau, 2092.
cf. reticulata, Bill., Matthew, 3790.
cf. retusa, Ford, Matthew, 3790.
superba Billings, Ulrich and Scofield, 5541.
 (?) sp., Grabau, 2092.
Scenellopora, Simpson, 4983.
Scenidium Hall, Hall and Clarke, 2260.
Scenidium, Hall, Winchell, and Schuchert, 6319.
anthonensis Sardeson, Winchell, and Schuchert, 6319.

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Genera and species described—Continued.

- Scenophyllum, n. gen., Simpson, 4984.
 Sceptropora, Simpson, 4983.
 Schapites larvæformis, M. and H., Herrick and Johnson, 2465.
 mullanaus, M. and H., Herrick and Johnson, 2465.
 ventricosus, M. and H., Herrick and Johnson, 2465.
 vermiformis, M. and H., Herrick and Johnson, 2465.
 warreni, M. and H., Herrick and Johnson, 2465.
 Schizophoria striatula (Schlotheim) Schuchert, Girty, 2039.
 Schizambon Walcott, Hall and Clarke, 2260.
 Schizambon Walcott, Winchell and Schuchert, 6319.
 ? dodgii n. sp., Winchell and Schuchert, 6319.
 ? lockii n. sp., Winchell and Schuchert, 6319.
 Schizaster lecontei n. sp., Merriam, 3922.
 Schizoblastus savi (Shumard), Keyes, 3062.
 Schizobolus Ulrich, Grabau, 2086.
 Schizobolus Ulrich, Hall and Clarke, 2260.
 truncatus Hall, Grabau, 2086.
 Schizocrania Hall and Whitfield, Hall and Clarke, 2260.
 Schizocrania Hall and Whitfield, Winchell and Schuchert, 6319.
 filosa Hall, Winchell and Schuchert, 6319.
 helderbergia n. sp., Hall and Clarke, 2260.
 (?) helderbergia, Hall and Clarke, 2268.
 schucherti n. sp., Hall and Clarke, 2260, 2268.
 Schizodus King, Girty, 2037.
 Schizodus King, Grabau, 2086.
 aequalis Hall, Weller, 5994.
 affinis Herrick, Girty, 2037.
 appressus (Conrad), Grabau, 2086.
 batesvillensis n. sp., Weller, 5986.
 binumbonata cf. æquimarginalis Winchell, Lane, 3400.
 burlingtonensis n. sp., Weller, 6006.
 chesterensis, Whitfield, 6099.
 cuneatus Meek, Smith, 5046.
 depressus Worthen (?), Weller, 5986.
 harii n. sp., Miller, 3992.
 harii Miller, Keyes, 3062.
 insignis n. sp., Drake, 1539.
 iowensis n. sp., Weller, 6006.
 mcekanus n. sp., Girty, 2037.
 pandatus n. sp., Girty, 2037.
 sedaliensis n. sp., Miller and Gurley, 4002.
 telliniformis n. sp., Girty, 2037.
 triangularis Herrick, Lane, 3400.
 wheeleri (Swallow), Keyes, 3062.
 wheeleri Swallow, Smith, 5046.
 ? sp., Weller, 5986.
 Schizolepis liaso-keuperina Friedrich Braun, Ward, 5857.
 Schizolopha Ulrich, Ulrich and Scofield, 5541.
 moorei n. sp., Ulrich and Scofield, 5541.
 textilis n. sp., Ulrich and Scofield, 5541.
 Schizoneura planicostata (Rogers) Fontaine?, Ward, 5857.

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Genera and species described—Continued.

- Schizopholis Waagen, Hall and Clarke, 2260.
 Schizophoria King, Hall and Clarke, 2260.
 swallowi (Hall), Weller, 5994, 6006.
 Schizotreta Kutorga, Hall and Clarke, 2260.
 Schizotreta Kutorga, Winchell and Schuchert, 6319.
 minutula n. sp., Winchell and Schuchert, 6319.
 pelopea Billings sp., Winchell and Schuchert, 6319.
 Schloebachia cf. inflata (Sowerby), Aguilera, 57.
 leopensis Con., Cragin, 1115.
 peruviana Von B., Cragin, 1115.
 peruviana, Stanton, 5197.
 woolgari Mantell, Cragin, 1115.
 Schmidtella Ulrich, Ulrich, 5540.
 affinis n. sp., Ulrich, 5540.
 brevis n. sp., Ulrich, 5540.
 cambrica n. sp., Matthew, 3761.
 crassimarginata n. gen. et sp., Ulrich, 5532, 5540.
 incompta n. sp., Ulrich, 5540.
 subrotunda n. sp., Ulrich, 5540.
 unbonata n. sp., Ulrich, 5540.
 Schmidtia Volborth, Hall and Clarke, 2260.
 Schoenaster legrandensis n. sp., Miller and Gurley, 3991.
 Schoenophyllum, n. gen., Simpson, 4984.
 Schroederoceras angulatum, Hyatt, 2819.
 bandonis, Hyatt, 2819.
 casinensis, Hyatt, 2819.
 damesi, Hyatt, 2819.
 denckelmanni, Hyatt, 2819.
 catoni, Hyatt, 2819.
 rarospira, Hyatt, 2819.
 saemannii, Hyatt, 2819.
 teres, Hyatt, 2819.
 tubulatum n. sp., Hyatt, 2819.
 Sciabregma n. gen., Scudder, 4890.
 rugosa, Scudder, 4890.
 Scintilla clarkiana n. sp., Aldrich, 74.
 clarkiana, Harris, 2313.
 Sciponoceras, Hyatt, 2819.
 Sciurus calycinus Cope, Cope, 1104.
 Scleropteris distantifolia n. sp., Fontaine, 1850.
 rotundifolia n. sp., Fontaine, 1850.
 vernonsensis n. sp., Ward, 5846.
 Scolecophagus affinis n. sp., Shufeldt, 4960.
 Scolithus, cf. S. linearis Hall, Grabau, 2092.
 Scutella gabbi Rémond, Merriam, 3922.
 interlineata Stimpson, Merriam, 3922.
 Scutellaster cretaceus n. gen. et sp., Cragin, 1120.
 Scyllium planidens n. sp., Williston, 6259.
 rugosum n. sp., Williston, 6259.
 (Lamna?) gracilis n. sp., Williston, 6259.
 Scyphomya Dall, Dall, 1272.
 Scyphophorus fossilis, Scudder, 4890.
 laevis, Scudder, 4890.
 Scytalocrinus hoveyi Worthen, Springer, 5163.
 validus, Springer, 5163.
 vanhornei Worthen, Springer, 5163.
 Scythropus somniculosus, Scudder, 4890.

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- Scythropus subterraneus, Scudder, 4890.
 Scytalocrinus vanhornei (Worthen), Keyes, 3061.
 Seelya n. gen., Ulrich and Scofield, 5541.
 mundula n. sp., Ulrich and Scofield, 5541.
 Selaginella falcata, Lx., emend, Knowlton, 3264.
 Se'enella n. gen., Hall and Clarke, 2261a.
 gracilis, Hall and Clarke, 2261a, 2268.
 lacinata Lx., Knowlton, 3264.
 Selenopora, Simpson, 4983.
 Semæostomites zitteli Haeckel, Walcott, 5811.
 Semele Schumacher, Dall, 1281.
 alumensis n. sp., Dall, 1281.
 bella Conrad, Dall, 1281.
 bellastriata Conrad, Dall, 1281.
 burnsii Whitfield, Dall, 1281.
 carinata Conrad, Dall, 1281.
 chipolana n. sp., Dall, 1281.
 cythereoidea n. sp., Dall, 1281.
 leana n. sp., Dall, 1281.
 mutica n. sp., Dall, 1281.
 nuculoidea Conrad, Dall, 1281.
 perlamellosa Heilprin, Dall, 1281.
 proficua Pulteney, Dall, 1281.
 purpurascens Gmelin, Dall, 1281.
 subovata Say, Dall, 1281.
 silicata n. sp., Dall, 1281.
 smithii n. sp., Dall, 1281.
 Semicosciniium, Simpson, 4983.
 Seminula bisinuata n. sp., Rowley, 4677a.
 dawsoni n. sp., Hall and Clarke, 2261a, 2263, 2268.
 humilis n. sp., Girty, 2038.
 immatura n. sp., Girty, 2038.
 madisonensis n. sp., Girty, 2038.
 var. pusilla n. var., Girty, 2038.
 rogersi n. sp., Hall and Clarke, 2261a, 2263, 2268.
 see Athyris (Seminula) McCoy, Hall and Clarke, 2261.
 Semipora, Simpson, 4983.
 Septopora, Simpson, 4983.
 biseriatus (Swallow), Keyes, 3062.
 Sequoia angustifolia ? Lx., Knowlton, 3246.
 brevifolio Heer, Knowlton, 3264.
 couthie Heer, Knowlton, 3255, 3262.
 gracilis Heer, Fontaine, 1850.
 gracillima (Lesq.) Newb., Newberry 4080, 4083.
 heerii Lesq., Newberry, 4083.
 heterophylla Vel., Newberry, 4080.
 langsdorffii Heer, Dawson, 1436.
 langsdorffii (Brongn.) Heer, Knowlton, 3255.
 langsdorffii (Brongniart) Heer, Knowlton, 3232, 3262.
 magnifica n. sp., Knowlton, 3255.
 nordenskiöldii Heer?, Newberry, 4083.
 pagiophylloides n. sp., Fontaine, 1846, 1847.
 reichenbachii (Geinitz) Heer, Fontaine, 1850.
 reichenbachii (Gein.) Heer, Hollick, 2398.
 reichenbachii (Gein.) Heer (?), Newberry, 4080.

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- Sequoia spinosa Newberry, Knowlton, 3232.
 spinosa Newb., Newberry, 4083.
 winchelli n. sp., Lesquereux, 3472.
 sp. Fontaine, 1850.
 sp. Knowlton, 3264.
 Serpula granifera, Say, 4813.
 intrica White, Logan, 3554.
 intrica White, Stanton, 5191.
 paluxiensis n. sp., Hill, 2539.
 plana n. sp., Logan, 3554.
 tenuicarinata M. & H., Logan, 3554.
 sp. Clark, 906.
 Serpulites dissolutus Billings, Whiteaves, 6087.
 longissimus n. var., Ami, 88.
 Serpularius ballistæ, Dall (granifera var.?), Dall, 1259.
 granifera tenera Dall, Dall, 1259.
 sylværupis n. sp., Harris, 2316.
 Serrifusus crosswickensis n. sp., Whitfield, 6097.
 (Lirofusus) nodocarinatus n. sp., Whitfield, 6097.
 Serripes Beck, Dall, 1281.
 grönländicus Beck, Dall, 1281.
 laperousii Deshayes, Dall, 1281.
 Shastasaurus pacificus n. sp., Merriam, 3915.
 Shumardocrinus n. gen., Miller and Gurley, 3998.
 concinnus Shumard, Miller and Gurley, 3998.
 Sibynce whitneyi, Scudder, 4890.
 Siderastrea hexagonalis, n. sp., Vaughan, 5735.
 Sieberella Oehlert, Hall and Clarke, 2261a, 2264.
 roemeri, Hall and Clarke, 2268.
 Sigaretus bilix Con., Harris, 2316.
 chipolanua n. sp., Dall, 1259.
 costatus n. sp., Cooper, 1072.
 declivus Con., Harris, 2315, 2316.
 multiplicatus n. sp., Dall, 1259.
 textilis n. sp., Stanton, 5191.
 (Eunaticina) textiles, Stanton, Herrick and Johnson, 2465.
 (Sigaticus) clarkeanus Ald., Aldrich, 73.
 Sigillaria, Dawson, 1455.
 Sigillaria Brongn., White, 6040.
 sigillarioides (Lx.) White, 6050.
 (Asolanus) camptotænia, H. C. Wood, White, 6050.
 Sigmogomphius lecontei n. gen. et sp., Merriam, 3917.
 Siliqua Megerle, Dall, 1281.
 huerfanensis, Stanton, Herrick and Johnson, 2465.
 huerfanensis n. sp., Stanton, 5191.
 nuttallii Conrad, Dall, 1281.
 (patula Dixon var.?) oregonia, Dall, Dall, 1281.
 simondsi n. sp., Harris, 2307.
 subequalis Gabb, Dall, 1281.
 Siliquatia pauperata n. sp., Whitfield, 6097.
 Silpha colorata n. sp., Scudder, 4900.
 Siphon erecta n. sp., Aldrich, 73.
 ? erecta Ald., Harris, 2315.
 tuomeyi Ald., Harris, 2316.

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- Siphonalia jacksonia*, n. sp., Harris, 2311.
lineata n. sp., Stanton, 5198.
subsclarina Heilp., Harris, 2316.
 sp., Harris, 2316.
- Siphonaria capuloides* n. sp., Cooper, 1071.
Siphonocetus clarkianus n. sp., Cope, 1096.
Siphonocrinus S. A. Miller, Weller, 6002.
nobilis Hall, Weller, 6002.
- Siphonotreta* de Verneuil, Hall and Clarke 2260.
Siphonotreta de Verneuil, Winchell and Schuchert, 6319.
minnesotensis n. sp., Hall and Clarke, 2260.
 ? *minnesotensis* Hall, Winchell and Schuchert, 6319.
 (?) *minnesotensis*, Hall and Clarke, 2268.
- Sistrum* (*Ricinula*?) *cretaceum* n. sp., Cooper, 1072.
- Sitona exitiorum*, Scudder, 4890.
fodinarum, Scudder, 4890.
paginarum, Scudder, 4890.
- Smicrorhynchus* n. gen., Scudder, 4890.
macgeei, Scudder, 4890.
- Smilax cyclophylla* Newb., Newberry, 4083.
grandifolia-cretacea n. sp., Lesquereux, 3470.
lamarensis, n. sp., Knowlton, 3255.
undulata, n. sp., Lesquereux, 3470.
- Smilodon gracilis* Cope, Cope, 1093.
mercerii Cope, Cope, 1104.
 (syn. *Dinobastis* Cope), Adams, 38.
- Solariella alabamensis*, Harris, 2310.
altiuscula n. sp., Guppy and Dall, 2214.
louisiana n. sp., Dall, 1259.
louisiana Dall, Harris, 2316.
sylværupis, n. sp., Harris, 2311.
turritella n. sp., Dall, 1259.
- Solariorbis clypeatus* n. sp., Guppy and Dall, 2214.
subangulatus Meyer var., Aldrich, 74.
- Solarium alabamense*, Harris, 2310.
amphitermum n. sp., Dall, 1259.
bastropensis n. sp., Harris, 2307.
bellense n. sp., Harris, 2315, 2316.
chiakasense n. sp., Cragin, 1118.
cupola Heilp., Harris, 2316.
elaboratum Con., Harris, 2316.
 var. *delphinuloides* Heilp., Harris, 2316.
 var. *intusum* n. var., Harris, 2316.
elaboratum vir *bimixta* Aldrich, 72.
huppertzi n. sp., Harris, 2307.
huppertzi var. *Har.*, Harris, 2311, 2316.
greggi n. sp., Harris, 2311, 2316.
leanum Dall, Harris, 2316.
periscelidum, Harris, 2310.
planiforme n. sp., Aldrich, 72.
sylværupis n. sp., Harris, 2311, 2316.
 sp., Clark, 906.
 sp., Harris, 2310.
 sp.?, Guppy and Dall, 2214.
- Solecardia* Conrad, Dall, 1281.
 (*Spaniorinus*) *cossmanni* n. sp., Dall, 1281.
- Solecuretus* (Blainville), Dall, 1281.

Paleontology—Continued.

Genera and species described—Continued.

- Solecuretus* (?) *dubius* n. sp., Stanton, 5199.
Solemya alabamensis n. sp., Harris, 2313.
 ? *obscura*, Stanton, Herrick and Johnson, 2465.
 ? *obscura* n. sp., Stanton, 5191.
occidentalis n. sp., Stanton, 5199.
petricoloides (Lea), Lark, 906.
- Solen* Linné, Dall, 1281.
amphistemma n. sp., Dall, 1281.
conradi Dall, 1281.
rosaceus Carpenter, Dall, 1281.
sicarius Gould, Dall, 1281.
viridis Say, Dall, 1281.
 (*Plectosolen*) *lisbonensis* Aldrich, Dall, 1281.
protectus Conrad, Dall, 1281.
 var. *abruptus* Dall, Dall, 1281.
 sp., Harris, 2313.
- Soleniscus* Meek and Worthen, Keyes, 3062.
brevis (White), Keyes, 3062.
gracilis (Cox) Keyes, 3062.
missouriensis (Swallow), Keyes, 3062.
newberryi (Stevens), Keyes, 3062.
paludinaformis (Hall), Keyes, 3062.
- Solenochilus blairi* n. sp., Miller, 3995.
collectus, Hyatt, 2816.
kentuckiensis n. sp., Hyatt, 2816.
rockfordense n. sp., Miller, 3992.
- Solenomya parallela* n. sp., Beede and Rogers, 396.
- Solenopleura arenosa* Bill. sp., Matthew, 3776.
 var. *angulimbata* n. var., Matthew, 3776.
robbi, Beecher, 366.
robbei Hartt mut. *parva*, Matthew, 3776.
 ? *weedi*, Walcott, 5816.
- Solenopora compacta* Billings, Ami, 79.
compacta Billings, Winchell and Schuchert, 6318.
- Solenopsis solenoides* (Geinitz), Keyes, 3062.
- Solenospira* n. gen., Ulrich and Scofield, 5541.
pagoda Salter, Ulrich and Scofield, 5541.
pagoda Salter var. *occidentals*, Whiteaves, 6087.
prisca Billings, Ulrich and Scofield, 5541.
- Solenosteira inornata* n. sp., Dall, 1259.
mengenana n. sp., Dall, 1259.
- Somphospongia* n. gen., Beede, 394.
multiformis n. sp., Beede, 394.
- Spathella subelliptica* n. sp., Whiteaves, 6074.
ventricosa (W. and W.), Weller, 6006.
- Spathyema*? *nevadensis* n. sp., Knowlton, 3263.
- Spatiopora* Ulrich, Ulrich, 5537.
iowensis n. sp., Ulrich, 5537.
labeculosa n. sp., Ulrich, 5537.
- Spermatodus pustulosus* n. gen. et sp., Cope, 1093.
- Spermophagus vivificatus*, Scudder, 4900.
- Sphaerella* (?) *anteproducta* n. sp., Harris, 2307.
 sp., Harris, 2313.
- Sphaerexochus pisum* n. sp., Foerste, 1835.
- Sphaeria problematica* n. sp., Lesquereux, 3470.
- Sphaerium simile* Say, Baker, 217.

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Genera and species described—Continued.

- Spharobolus* n. gen. prov., Matthew, 3767.
spissus (Billings), Grabau, 2092.
spissus, Matthew, 3767.
- Spharodoma littonana* (Hall), Keyes, 3062.
medialis (Meek and Worthen), Keyes, 3062.
pinguis (Win.), Weller, 6006.
ponderosa (Swallow) Keyes, 3062.
primogenia (Conrad), Keyes, 3062.
- Sphærophthalmus alatus* Boeck, var. *candensis*, n. var., Matthew, 3751.
- Sphagiopora*, Simpson, 4983.
- Sphenia* Turton, Dall, 1272.
attenuata n. sp., Dall, 1272.
- Sphenocelus uintens*, Osborn, 4190.
- Sphenodiscus belviderensis* Cragin, Cragin, 1132.
 var. *mons clavatus*, Cragin, 1132.
comancheanus, Cragin, 1132.
dumblii n. sp., Cragin, 1115.
emarginatus n. sp., Cragin, 1115.
lenticularis Owen, Cragin, 1115.
mentorianus, Cragin, 1132.
roemeri n. sp., Cragin, 1115.
serpentinus, Cragin, 1132.
uddeni, Cragin, 1132.
- Sphaerucaprina felixi* n. sp., Boehm, 503a.
lenki n. sp., Boehm, 503a.
occidentalis Conrad sp., Boehm, 503a.
- Sphenolepidium kurrianum* (Dunker) Heer, Fontaine, 1850.
pachyphyllum?, Dawson, 1434.
parceramosum Fontaine, Fontaine, 1850.
sternbergianum var. *densifolium* Font., Fontaine, 1846, 1847.
sternbergianum (Dunk.) Heer, Ward, 5846.
- Sphenolium* S. A. Miller, Ulrich, 5539.
cuneiforme S. A. Miller, Miller and Faber, 3997.
parallelum n. sp., Ulrich, 5539.
striatum n. sp., Ulrich, 5539.
- Sphenophyllum* Brongniart, White, 6040.
bifurcatum Lx., White, 6052.
cuneifolium (Stb.) Zeill., White, 6049, 6052.
cuneifolium (Sternb.) Zeill., White, 6040.
emarginatum Brongn., White, 6050.
lescurianum n. sp., White, 6050.
majus Brongn., White, 6040, 6050.
suspectum n. sp., White, 6049.
tenerimum Ett. var. *elongatum* n. var., White, 6052.
tenue n. sp., White, 6052.
(Asterophyllites?) fasciculatum (Lx.), White, 6050.
- Sphenopteris asplenoides* Sternb., White, 6022.
brittsii Lx., White, 6050.
canneltonensis n. sp., White, 6050.
capitata n. sp., White, 6050.
chaerophylloides (Brongn.) Presl., White, 6050.
corrugata Newb., Newberry, 4083.
cristata (Brongn.) Presl., White, 6050.

Paleontology—Continued.

Genera and species described—Continued.

- Sphenopteris dadeana* n. sp., White, 6052.
(diplothemema) furcata Brongn., White, 6052.
divariata (Goepp.) Gein and Gutb., White, 6052.
egyptiaca Emmons, Ward, 5857.
grevillioides Heer, Ward, 5846.
harttii Dn., Ward, 6052.
hildreti Lx., White, 6040.
illinoisensis n. sp., White, 6050.
kaercheri n. sp., White, 6052.
lacoei n. sp., White, 6040.
lacoei D. W., White, 6050.
laliloba?, Dawson, 1434.
macilenta L. and H., White, 6040.
microcarpa Lx., Ward, 6052.
missouriensis n. sp., White, 6050.
mixta Schimp., White, 6050.
patentissima (Ett.) Schimp., White, 6052.
pilosa Dn., White, 6052.
pinnatifida (Lx.), White, 6050.
plurinervia Heer?, Fontaine, 1850.
royi Lx., White, 6052.
subcrenulata (Lx.), White, 6050.
suspecta n. sp., White, 6050.
taffiin sp., White, 6049.
valdensis Heer?, Fontaine, 1847.
valdensis Heer, Fontaine, 1846.
van ingeni n. sp., White, 6050.
wardiana n. sp., White, 6050.
(Crossotheca) ophioglossoides (Lx.), White, 6050.
(Hymenotheca) broadheadi n. sp., White, 6050.
(Pseudopceopteris) obtusiloba Brongn., White, 6040.
 sp., White, 6050.
- Sphenotrochus claibornensis* n. sp., Vaughan, 5735.
nanus (Lea), Vaughan, 5735.
- Sphenotus* Hall, Grabau, 2086.
æolus Hall, Lane, 3400.
bicarinatus (Win.), Weller, 6006.
bicostatus n. sp., Weller, 6006.
bodenbenderi n. sp., Clarke, 976.
gorceixi n. sp., Clarke, 976.
iowensis (Win.), Weller, 6006.
rigidus (W. and W.), Weller, 6006.
sinuatus n. sp., Miller and Gurley, 4002.
truncatus (Conrad), Grabau, 2086.
- Sphenozamites rogersianus* Fontaine, Ward, 5857.
- Spiladomyia* Scudder, Scudder, 4894.
simplex, Scudder, 4894.
- Spiraxis* Major, James, 2894.
randalli, James, 2894.
- Spirialis choctavensis* Ald., Harris, 2316.
elongatoides Ald., Aldrich, 73.
elongatoides Ald., Harris, 2316.
- Spirifer* Sowerby, Grabau, 2086.
- Spirifer* Sowerby, Hall and Clarke, 2264.
angustus Hall, Grabau, 2086.
arenosus Conrad, Clarke, 971.
asper Hall, Grabau, 2086.
audaculus (Conrad), Grabau, 2086.

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Genera and species described—Continued.

- Spirifer audaculus* var. *eatoni* Hall, Grabau, 2086.
biblicatus Hall, Weller, 6006.
bimesialis Hall?, Girty, 2039.
cameratus Morton, Beede, 387.
canandaiguæ n. sp., Hall and Clarke, 2261a, 2263, 2268.
carinatus, n. sp., Rowley, 4677a.
centronatus Winchell, Girty, 2038.
 var. *semifurcatus* n. var., Girty, 2038.
coniculus n. sp., Girty, 2039.
consobrinus d'Orbigny, Grabau, 2038.
crispatus n. sp., Hall and Clarke, 2261a, 2263, 2268.
deltoides Herrick, Lane, 3400.
disjunctus var. *animasensis* n. var., Girty, 2039.
disjunctus var. *sulsifer* n. var., Hall and Clarke, 2261a, 2263, 2268.
engelmanni Meek, Girty, 2038.
granulosus (Conrad), Grabau, 2086.
 var. *clintoni* Hall, Grabau, 2086.
grimesi Hall, Herrick and Johnson, 2465.
huronensis Win., Lane, 3400.
imbrex, Herrick and Johnson, 2465.
insculptus n. sp., Rowley, 4677a.
keokuk Hall, Weller, 5986.
louisianensis n. sp., Rowley, 4677a.
macronotus Hall, Grabau, 2086.
marionensis Shumard (?), Girty, 2038.
marionensis Shumard, Weller, 5994.
medialis Hall, Lane, 3400.
mucronatus Conrad, Grabau, 2076.
mucronatus var. *posterus* n. var., Hall and Clarke, 2261a, 2263, 2268.
murchisoni Castelnau, Clarke, 971.
newberryi, Hall and Clarke, 2261a, 2263, 2268.
rockymontanus Marcou, Girty, 2037.
saffordi Hall, Clarke, 971.
schucherti n. sp., Rowley, 4677a.
striatus Martin, Herrick and Bendrat, 2464.
striatus var. *madisonensis* n. var., Girty, 2038.
subattenuatus Hall, Girty, 2038.
subattenuatus, Hall?, Lane, 3400.
subrotundatus Hall, Weller, 6006.
tullius Hall, Grabau, 2086.
williamsi n. sp., Hall and Clarke, 2261a, 2263, 2268.
 (*Cyrtia* Dalman), Hall and Clarke, 2264.
 (*Delthyris*) *sculptilis* (Hall), Grabau, 2086.
 (*Martinia*) *subumbonus* Hall, Grabau, 2086.
 (*Reticularia*) *fimbriatus* (Conrad), Grabau, 2086.
 sp. Girty, 2038.
Spirifera aciculifera n. sp., Rowley, 4673.
camerata Morton, Keyes, 3062.
forbesi Norwood and Pratten, Keyes, 3062.
grimesi Hall, Keyes, 3062.
 (cf. *Athyris*) *insolita*, Lane, 3400.
keokuk Hall, Keyes, 3062.
lineatoides Swallow, Keyes, 3062.

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Genera and species described—Continued.

- Spirifera macbridei*, Calvin, 690.
maia, Whitfield, 6099.
marionensis Shumard, Keyes, 3062.
mundula n. sp., Rowley, 4673.
parryana Hall, Keyes, 3062.
planoconvexus Shumard, Keyes, 3062.
plicatella, Whiteaves, 6080.
rockymontana? Whitfield, 6099.
urbana, Calvin, 690.
vanuxemi, Whitfield, 6099.
ziczac, Whitfield, 6099.
 (*Martinia*) *contracta*, Whitfield, 6099.
 (*Martinia*) *lineata*, Whitfield, 6099.
Spiriferina d'Orbigny, Hall and Clarke, 2261, 2264.
 solidirostris White, Girty, 2038.
Spirigerella, see *Athyris* (*Spirigerella*) Waagen, Hall and Clarke, 2261.
Spirillina orbicularis n. sp., Bagg, 148.
Spiroloculina planulata, Bagg, 148.
Spirophyton, Udden, 5512.
 typum, James, 2895.
 sp., Weller, 5994.
Spiroplecta americana Ehrenberg, Woodward and Thomas, 6433.
 clarki n. sp., Bagg, 143, 145, 148.
Spirorbis Lamarck, Grabau, 2086.
angulatus Hall, Grabau, 2086.
anthracosia, Whitfield, 6099.
assimilis n. sp., Clarke, 971.
blairi n. sp., Miller and Gurley, 3998.
Spisula Gray, Dall, 1272.
 (?) *quadricentennialis* Harris, Dall, 1265.
 (*Hemimaetra*) Swainson, Dall, 1272.
 curtidens n. sp., Dall, 1272.
 delumdis Conrad, Dall, 1272.
 densa n. sp., Dall, 1272.
 dodona n. sp., Dall, 1272.
 duplinensis n. sp., Dall, 1272.
 magnoliiana n. sp., Dall, 1272.
 marylandica n. sp., Dall, 1272.
 subponderosa d'Orbigny, Dall, 1272.
 (*Cymbophora*) Gabb, Dall, 1272.
 (*Leptospisula*) Dall, Dall, 1272.
 (*Schizodesma*) Gray, Dall, 1272.
Spodotribus n. gen., Scudder, 4890.
 terrulentus, Scudder, 4890.
Spondylobolus McCoy, Hall and Clarke, 2260.
 hilli n. sp., Cragin, 1115.
Spondylus bostrychites Guppy, Dall, 1272.
 dumosus Morton, Dall, 1272.
 echinatus Martyn, Dall, 1272.
 fragilis n. sp., Stanton, 5199.
 inornatus n. sp., Whitfield, 6101.
 rotundatus Heilprin, Dall, 1272.
 sp., Harris, 2313.
Spongurus, Matthew, G. F., 3760.
Sporangites huronensis Dawson (?) Girty, 2035.
 radiatus n. sp., Duden, 1554.
Sportella Deshayes, Dall, 1281.
 compressa H. C. Lea, Dall, 1281.
 constricta Conrad, Dall, 1281.
 gregorioi Coss., Aldrich, 74.
 lloconcha n. sp., Dall, 1281.

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Genera and species described—Continued.

- Sporella* (?) *lubrica* n. sp., Dall, 1281.
obolus n. sp., Dall, 1281.
pelex n. sp., Dall, 1281.
petropolitana n. sp., Dall, 1281.
protecta Conrad, Dall, 1281.
unicarinata n. sp., Dall, 1281.
whitfieldi Dall, Dall, 1281.
yorkensis n. sp., Dall, 1281.
Squama n. gen., Logan, 3553, 3554.
lata n. sp., Logan, 3553, 3554.
spissa n. sp., Logan, 3553, 3554.
Stachella Waagen, Ulrich and Scofield, 5541.
Stagodon validus n. sp., Marsh, 3671.
Sandella Gray, Dall, 1272.
 (Eastonia) Gray, Dall, 1272.
Staphylinus lesleyi n. sp., Scudder, 4900.
vetulus n. sp., Scudder, 4900.
Stauresphaera, Matthew, G. F., 3760.
Stenoceras n. gen., Hyatt, 2816.
gibbosum, Hyatt, 2816.
gibbosum Hyatt, Girty, 2037.
Steganoblastus canadensis, Whiteaves, 6091.
Steganoerinus Meek and Worthen, Wachsmuth and Springer, 5765a.
Steganoerinus albersi n. sp., Miller and Gurley, 4003.
araneolus Meek and Worthen, Wachsmuth and Springer, 5765a.
araneolus sculptus (Meek and Worthen), Keyes, 3061.
benedicti n. sp., Miller, 3995.
blairi n. sp., Miller and Gurley, 4003.
concinus Shumard, Keyes, 3061.
concinus (Shumard), Wachsmuth and Springer, 5765a.
globosus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
griffithi n. sp., Miller and Gurley, 4003.
pentagonus (Hall), Keyes, 3061.
pentagonus (Hall), Wachsmuth and Springer, 5765a.
sculptus (Hall), Wachsmuth and Springer, 5765a.
sharonensis n. sp., Miller and Gurley, 4003.
spergenensis n. sp., Miller and Gurley, 3999.
Steganus n. gen., Scudder, 4890.
barrandei, Scudder, 4890.
Stegomus arcuatus n. gen. et sp., Marsh, 3698.
Stegosaurus, Case, 768.
Stegosaurus, Marsh, 3701, 3702.
Stemmatia bicristatus, Hay, 2381.
bifurcatus, Hay, 2381.
cheiriformis, Hay, 2381.
compactus, Hay, 2381.
keokuk, Hay, 2381.
symmetricus, Hay, 2381.
Stenaster Billings, James, 2896.
grandis Meek, James, 2896.
harrisi (S. A. Miller), James, 2896.
Stenecphora n. gen., Scudder, 4895.
punctulata n. sp., Scudder, 4895.
Stenognathus, n. gen., Newberry, 4082.
Stenogomphus n. gen., Scudder, 4895.

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Genera and species described—Continued.

- Stenogomphus carletoni*, Scudder, 4895.
Stenolocris n. gen., Scudder, 4895.
venosa n. sp., Scudder, 4895.
Stenolophus religatus n. sp., Scudder, 4900.
Stenopoceras n. gen., Hyatt, 2816.
Stenopora, Simpson, 4983.
spinulosa n. sp., Rogers, 4656.
spissa n. sp., Rogers, 4546.
tuberculata (Prout), Keyes, 3062.
Stenoschisma Conrad, Hall and Clarke, 2261a, 2264.
Stenotheca Salter, Grabau, 2092.
Stenotheca Salter, Matthew, 3770.
Stenotheca Salter, Ulrich and Scofield, 5541.
abrupta Shaler and Foerste, Grabau, 2092.
concentrica, Matthew, 3770.
 var. *radiata*, Matthew, 3770.
curvirostra Shaler and Foerste, Grabau, 2092.
exerta Sardeson, Ulrich and Scofield, 5541.
hicksiana, Matthew, 3770.
levis Walcott, Grabau, 2092.
nasuta, Matthew, 3770.
pauper Billings, Grabau, 2092.
triangularis, Matthew, 3770.
unguiformis n. sp., Ulrich and Scofield, 5541.
Stephanella hindii n. sp., Dawson, 1452.
Stephanocenia fairbanksi n. sp., Vaughan, 5735.
Stephanocrinus Conrad, Weller, 6002.
cornetti n. sp., Miller, 3995.
elongatus n. sp., Miller, 3992.
hamelli n. sp., Miller, 3992.
obpyramidalis n. sp., Miller, 3992.
osgoodensis, Miller, 3992.
osgoodensis (S. A. Miller), Weller, 6002.
Stephanograptus crassicaulis n. sp., Gurley, 2217.
exilis Lapworth n. sp., Gurley, 2217.
Stephanomorpha monticuliformis, n. sp., Vaughan, 5735.
Steptopora interporata n. sp., Rogers, 4656.
Sterculia aperta Lesq., Lesquereux, 3470.
engleri n. sp., Kirchner, 3187.
mucronata n. sp., Lesquereux, 3470.
reticulata n. sp., Lesquereux, 3470.
snowii n. sp., Lesquereux, 3470.
snowii Lesq. (?), Hollick, 2696.
snowii, Knowlton, 3234.
snowii var. *disjuncta* n. var., Lesquereux, 3470.
 sp.?, Hollick, 2606, 2698.
Stereocrinus indianensis n. sp., Miller and Gurley, 4003.
Stereolasma n. gen., Simpson, 4984.
Steriphonotrochus pulcher n. sp., Vaughan, 5735.
Sterrolophus, Marsh, 3701.
Stethacanthus compressus n. sp., Newberry, 4082.
 productus n. sp., Newberry, 4082.
Stethocapsa, Matthew, G. F., 3760.
Stiboriopsis n. gen., Vaughan, 5734.
jamaicaensis n. sp., Vaughan, 5734.

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Genera and species described—Continued.

- Stictocella, Simpson, 4983.
 Stictopora Hall, Grabau, 2086.
 Stictopora, Simpson, 4983.
 palmipes Hall, Grabau, 2086.
 permarginata Hall, Grabau, 2086.
 recta Hall, Grabau, 2086.
 sinuosa Hall, Grabau, 2086.
 sp.?, Clarke, 971.
 Stictoporella n. gen., Simpson, 4983.
 (?) sp., Girty, 2038.
 Stictoporina n. gen., Simpson, 4983.
 Stigmaria *evenii* Lx., White, 6050.
 verrucosa (Martin) S. A. Miller, White, 6050.
 Straderes n. gen., Scudder, 4890.
 conradi, Scudder, 4890.
 Stomatia *intermedia* n. sp., Cooper, 1071.
 Stomatopora, Simpson, 4983.
 Stomatopora Bronn, Ulrich, 5537.
 canadensis n. sp., Whiteaves, 6087.
 inflata Hall, Ulrich, 5537.
 proutana S. A. Miller, Ulrich, 5537.
 tenuissima Ulrich, Ulrich, 5537.
 turgida Ulrich, Ulrich, 5537.
 Stomechinus *hyatti* Clark, Clark, 892.
 Stramentum n. gen., Logan, 3553.
 Stramentum, Logan, 3554.
 hawarthii Williston, Logan, 3554.
 haworthi n. sp., Logan, 3553.
 tabulatum n. sp., Logan, 3553, 3554.
 Straparollina *obtusa* n. sp., Whiteaves, 6074.
 remota Billings, Grabau, 2092.
 Straparollus Montfort, Grabau, 2086.
 Straparollus Montfort, Keyes, 3062.
 ammon (White and Whitfield), Keyes, 3062.
 ammon (W. & W.), Weller, 6006.
 angularis n. sp., Weller, 6006.
 blairi n. sp., Miller, 3992.
 catilloides (Conrad), Keyes, 3062.
 claytonensis n. sp., Calvin, 684.
 clymenioides Hall?, Girty, 2039.
 latus (Hall), Keyes, 3062.
 macromphalus Win., Weller, 6006.
 missouriensis n. sp., Miller and Gurley, 4002.
 obtusius (Hall), Keyes, 3062.
 parva n. sp., Cleland, 1012.
 pernodosus Meek and Worthen, Keyes, 3062.
 planidorsatus Meek and Worthen, Keyes, 3062.
 pristiniformis n. sp., Calvin, 684.
 rudis Hall, Grabau, 2086.
 similis, Whitfield, 6099.
 spergenensis (Hall), Keyes, 3062.
 utahensis Hall and Whitfield, Girty, 2038.
 valvataformis Shumard, Keyes, 3062.
 (cf. *Oriostoma*) *incarinatum* n. sp., Foerste, 1835.
 ? sp., Weller, 5994.
 Streblotrypa Ulrich, Grabau, 2086.
 Streblotrypa, Simpson, 4983.
 hamiltonense (Nicholson), Grabau, 2086.
 striatopora n. sp., Rogers, 4656.

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Genera and species described—Continued.

- Streblotrypa *ulrichi* n. sp., Rogers, 4656.
 Strenuella, Matthew, 3789.
 (?) *attleborensis*, Shaler and Foerste, mut.
 vigilans n. mut., Matthew, 3789.
 strenua (Billings), Grabau, 2092.
 strenua Billings sp., mut. *robusta* n. mut., Matthew, 3789.
 Strepsidura *ficus* Gabb, Harris, 2307.
 ficus Gabb, Aldrich, 73.
 heilprini n. sp., Aldrich, 73.
 heilprini, Harris, 2310.
 (?) *mediavia* n. sp., Harris, 2310.
 pachecoensis n. sp., Stanton, 5198.
 Strepsodus *Hardingi* (Dawson), Hay, 2388.
 arenosus n. sp., Hay, 2388.
 dawsoni, n. sp., Hay, 2388.
 Streptelasma Hall, Grabau, 2086.
 Streptelasma, Hall, 2266.
 Streptelasma, James, 2881.
 Streptelasma Hall, Winchell and Schuchert, 6318.
 breve n. sp. (Ulrich), Winchell and Schuchert, 6318.
 corniculum, James, 2881.
 corniculum Hall, Keyes, 3061.
 corniculum Hall, Sardeson, 4803.
 corniculum Hall, Winchell and Schuchert, 6318.
 (?) *parasiticum* n. sp. (Ulrich), Winchell and Schuchert, 6318.
 profundum (Owen), Sardeson, 4803.
 profundum (Conrad MS.) Owen, Winchell and Schuchert, 6318.
 rectum Hall, Grabau, 2086.
 robustum n. sp., Whiteaves, 6083.
 robustum Whiteaves, Whiteaves, 6087.
 rusticum Billings, Winchell and Schuchert, 6318.
 strictum Hall, Girty, 2034.
 ungula Hall, Grabau, 2086.
 waynense (Safford), White, 6040.
 sp. Girty, 2039.
 Streptis Davidson, Hall and Clarke, 2260.
 Streptodius n. gen., Miller, 3995.
 indianensis n. sp., Miller, 3995.
 Streptorhynchus King, Hall and Clarke, 2260.
 crassum, Whitfield, 6099.
 crenistria (Phillips), Keyes, 3062.
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 hydraulicum, Whitfield, 6099.
 lens White, Keyes, 3062.
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 williamsi n. sp., Weller, 5986.
 Strepula Jones and Hall, Grabau, 2086.
 sigmoidalis Jones, Grabau, 2083.
 Striarcia Conrad, Whitfield, 6101.
 Striatopora Hall, Lambe, 3374.
 carbonaria White, Keyes, 3061.
 flexuosa Hall, Lambe, 3374.
 gorbyi n. sp., Miller, 3995.
 linneana Billings, Lambe, 3374.
 Stribalocystites *gorbyi* n. sp., Miller, 3995.
 sphaeroidalis n. sp., Miller and Gurley, 3997d.
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- Stricklandinia* Billings, Hall and Clarke, 2261a, 2264.
castellana White, Weller and Davison, 5978.
- Strictoporella* Ulrich, Ulrich, 5537.
angularis Ulrich, Ulrich, 5537.
cribrosa Ulrich, Ulrich, 5537.
humosa n. sp., Ulrich, 5537.
frondifera Ulrich, Ulrich, 5537.
rigida Ulrich, Ulrich, 5537.
var. intermedia n. var., Ulrich, 5537.
- Strigilla* Turton, Dall, 1281.
flexuosa Say, Dall, 1281.
galvestonensis n. sp., Harris, 2309.
pisiformis Linné, Dall, 1281.
- Stringocephalus* DeFrance, Hall and Clarke, 2261a, 2264.
- Strobilepsis* spinigera, Clarke, 951.
- Strobilites* inquirendus n. sp., Hollick, 2698.
- Stroboceras*, Hyatt, 2816.
- Strombina* mira n. sp., Guppy and Dall, 2214.
- Strombinella* Dall, Guppy and Dall, 2214.
acuminata n. sp., Guppy and Dall, 2214.
- Stromatocerium*, James, 2881.
canadense, James, 2881.
- Stromatopora*, James, 2881.
expansa Hall and Whitfield, Keyes, 3061.
hindei, James, 2881.
indianiensis n. sp., James, 2881.
(?) lichenoides, James, 2881.
ludlowensis, James, 2881.
papillata, James, 2881.
scabra, James, 2881.
subcylindrica, James, 2881.
tubularis, James, 2881.
- Stromatotrypa* n. gen., Ulrich, 5537.
ovata n. sp., Ulrich, 5537.
- Strombina* gibberula var. *galvestonensis* n. var. Harris, 2309.
(Amycla) *kevis* n. sp., Whitfield, 6101.
- Strombus* albirupianus n. sp., Dall, 1259.
aldrichi n. sp., Dall, 1259.
chipolana n. sp., Dall, 1259.
leidyi Heilprin, Dall, 1259.
pugilis Linné, Dall, 1259.
- Strophalosia* King, Grabau, 2086.
- Strophalosia* King, Hall and Clarke, 2260.
beecheri n. sp., Rowley, 4673.
cymbula, Hall and Clarke, 2268.
rockfordensis n. sp., Hall and Clarke, 2260, 2268.
truncata (Hall), Grabau, 2086.
- Stropheodonta* Hall, Grabau, 2086.
- Stropheodonta* Hall, Hall and Clarke, 2260.
concava Hall, Grabau, 2086.
demissa Conrad, Grabau, 2086.
linckeni Hall, Clarke, 971.
plicata Hall, Grabau, 2086.
(Donvillina) *inaequistriata* (Conrad), Grabau, 2086.
(Leptostrophia) *junia* Hall, Grabau, 2086.
(Leptostrophia) *perplana* Conrad, Grabau, 2086.
(Pholidostrophia) *nacrea* (Hall), Grabau, 2086.

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- Strophia* albers, Dall, 1259.
(anodonta var.?) *floridana* Dall, Dall, 1259.
(Eostrophia) *anodonta* n. sp., Dall, 1259.
- Strophocrinus* dieyclicus n. gen. et sp., Sarde-son, 4808.
- Strophodonta* demissa (Conrad) Keyes, 3062.
- Strophomena* Rafinesque (de Blainville), Winchell and Schuchert, 6319.
alternata (Conrad), Keyes, 3062.
avata n. sp., Matthew, 3746.
billingsi n. sp., Winchell and Schuchert, 6319.
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incurvata Shephard sp., Winchell and Schuchert, 6319.
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planodorsata, Winchell and Schuchert, 6298, 6319.
planumbona (Hall), Keyes, 3062.
rhomboidalis, Herrick and Johnson, 2465.
rugosa (Rafinesque MS.) Blainville, Winchell and Schuchert, 6319.
var. subtenta (Conrad MS.) Hall, Winchell and Schuchert, 6319.
- scofieldi*, Winchell and Schuchert, 6298, 6319.
septata, Winchell and Schuchert, 6298, 6319.
- trentonensis* n. sp., Winchell and Schuchert, 6319.
- trilobata* Owen sp., Winchell and Schuchert, 6319.
- winchelli* n. sp., Hall and Clarke, 2261, 2268.
winchelli Hall, Winchell and Schuchert, 6319.
(Orthothetes) *hanoverensis*, Foerste, 1835.
(Orthothetes) *tenuis*, Foerste, 1835.
(Strophonella) *patenta*, Foerste, 1835.
- Strophonella* Hall, Hall and Clarke, 2260.
costalula n. sp., Hall and Clarke, 2261a, 2263, 2268.
crassa n. sp., Rowley, 4674.
- Strophostylus* Hall, Keyes, 3062.
- Strophostylus* Hall, Ulrich and Scofield, 5541.
bivolve (W. and W.), Weller, 6006.
expansus Conrad, Clarke, 971.
nana Meek and Worthen, Keyes, 3062.
remex (White), Keyes, 3062.
reversus (Hall), Keyes, 3062.
peoriensis (McChesney), Keyes, 3062.
textilis n. sp., Ulrich and Scofield, 5541.
- Stropora*, Simpson, 4983.
- Strotocrinus* M. and W., Wachsmuth and Springer, 5765a.
- Strotocrinus* blairi n. sp., Miller and Gurley, 3998.
ornatus n. sp., Miller and Gurley, 3999.
regalis Hall, Wachsmuth and Springer, 5765a.

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- Strotocrinus glyptus* Hall, Wachsmuth and Springer, 5765a.
regalis (Hall), Keyes, 3061.
venustus n. sp., Miller and Gurley, 3997a.
Strybalocystis? elongatus n. sp., Rowley, 4677.
missouriensis n. sp., Rowley, 4677.
Stylarea von Seebach, Lambe, 3374.
parva Billings (sp.), Lambe, 3374.
Stylastera anna, Whitfield, 6099.
Stylina collinsi n. sp., Gregory, 2171.
Stylinodon cylindriker Cope, Wortman, 6492.
mirus Marsh, Wortman, 6492.
mirus, Marsh, 3706.
Styliola primæva n. sp., Matthew, 3746.
Styliolina Karpinsky, Grabau, 2086.
fissurella Hall, Grabau, 2086.
spica (Hall), Grabau, 2086.
Stylocemia duerdeni n. sp., Vaughan, 5734.
Stylonurus laeoanus, Beecher, 380, 383.
Stylophora minutissima n. sp., Vaughan, 5735.
ponderosa n. sp., Vaughan, 5735.
Stylobasis knightiana Cope n. gen. et sp., Cope, 1076.
Styptobasis aculeata n. sp., Cope, 1093.
Subclymenia d'Orbigny, Hyatt, 2816.
Subulites Conrad, Ulrich and Scofield, 5541.
beloitisensis n. sp., Ulrich and Scofield, 5541.
benedicti n. sp., Miller, 3992.
canadensis n. sp., Ulrich and Scofield, 5541.
compactus Whiteaves, Whiteaves, 6080.
compactus? var., Whiteaves, 6080.
conradi n. sp., Ulrich and Scofield, 5541.
directus n. sp., Foerste, 1835.
dixonensis n. sp., Ulrich and Scofield, 5541.
elongatus Conrad, Keyes, 3062.
nanus n. sp., Ulrich and Scofield, 5541.
parvus n. sp., Ulrich and Scofield, 5541.
pergracilis n. sp., Ulrich and Scofield, 5541.
regularis n. sp., Ulrich and Scofield, 5541.
(Polyphemopsis) plani-lateralis n. sp., Foerste, 1835.
sp. undet., Ulrich and Scofield, 5541.
Suessia Deslongchamps, Hall and Clarke, 2264.
Surcula crenatospira n. sp., Cooper, 1071.
gabbi, Aldrich, 74.
inconstans n. sp., Cooper, 1071.
monilifera n. sp., Cooper, 1071.
nasuta Whitf., Harris, 2316.
parva (?) Whitfield, 6101.
perobesa n. sp., Whitfield, 6097.
strigosa, Whitfield, 6097.
Surculites annosus, Whitfield, 6097.
cadavarosus n. sp., Whitfield, 6097.
curtus n. sp., Whitfield, 6097.
Surirella woolmaniana peticolas n. sp., Boyer, 518.
Sycium cloacinum Cope, Cope, 1104.
Syllomus crispatus n. gen. et sp., Cope, 1100.
Symbathocrinus dentatus Owen and Shumard, Keyes, 3061.

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- Symbathocrinus wortheni* Hall, Keyes, 3061.
Symmorium reniforme Cope, Cope, 1093.
Synaptophyllum n. gen., Simpson, 4984.
Synbathocrinus angularis n. sp., Miller and Gurley, 3997c.
illinoisensis n. sp., Miller and Gurley, 3999.
Synconodon n. gen., Osborn, 4205.
sexicuspis n. sp., Osborn, 4205.
Syndosyma (?) *nuculoides*, Whitfield, 6101.
Synocladia, Simpson, 4983.
rectisyla, Whitfield, 6099.
Syntomostyles n. nom., Scudder, 4890.
rudis, Scudder, 4890.
Syntilasma hemiplicata (Hall), Keyes, 3062.
Syntrophia Hall, Hall and Clarke, 2261a, 2264.
palmeta n. s., Cleland, 1012.
Syringoceras n. gen., Hyatt, 2819.
Syringolites Hinde 1879, Lambe, 3374.
huronensis Hinde, Lambe, 3374.
Syringopora, Girty, 2032.
Syringopora Goldfuss, Lambe, 3374.
aculeata n. sp., Girty, 2038.
bifurcata Lonsdale, Lambe, 3374.
compacta Billings, Lambe, 3374.
dalmanii Billings, Lambe, 3374.
harveyi? White, Keyes, 3061.
hisingeri Billings, Lambe, 3374.
infundibula Whitfield, Lambe, 3374.
intermedia Billings, Lambe, 3374.
maclurei Billings, Lambe, 3374.
multattenuata McChesney, Keyes, 3061.
nobilis Billings, Lambe, 3374.
perelegans Billings, Lambe, 3374.
ramulosa Goldfuss, Lambe, 3374.
reticulata Goldfuss, Lambe, 3374.
retiformis Billings, Lambe, 3374.
surcularia n. sp., Girty, 2038.
verticillata Goldfuss, Lambe, 3374.
Syringostoma barretti n. sp., Girty, 2034.
centrotum n. sp., Girty, 2034.
consimile n. sp., Girty, 2034.
foveolatum n. sp., Girty, 2034.
microporum n. sp., Girty, 2034.
Syringotheris Winchell, Hall and Clarke, 2261, 2264.
carteri Hall, Girty, 2038.
carteri (Hall), Keyes, 3062.
carteri (Hall), Weller, 5994.
extenuatus (Hall), Weller, 6006.
missouri n. sp., Hall and Clarke, 2261a, 2263, 2268.
pharovicina Win., Lane, 3400.
plena (Hall), Keyes, 3062.
Syrnola dalli Coss. var., Harris, 2316.
trapaquara n. sp., Harris, 2307, 2316.
Systemodon Cope, Wortman, 6489.
primævus n. sp., Wortman, 6489.
semihians Cope, Osborn and Wortman, 4180.
tapirinus Cope, Osborn and Wortman, 4180.
Systrophoceras n. gen., Hyatt, 2819.
Tachinus sommatus n. sp., Scudder, 4900.
Tachyporus nigripennis n. sp., Scudder, 4900.

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- Tæniaster* Billings, James, 2896.
elegans S. A. Miller, James, 2896.
Tæniophyllum latifolium n. sp., White, 6050.
Tæniopora, Simpson, 4983.
Tæniopteris missouriensis n. sp., White, 6041, 6050.
orovillensis Fontaine, Ward, 5857.
? yorkensis Fontaine n. sp., Ward, 5857.
Tæniopora Nicholson, Grabau, 2086.
exigua Nicholson, Grabau, 2086.
Tænodictya, Simpson, 4983.
Tagelus Gray, Dall, 1281.
californianus Conrad, Dall, 1281.
divisus Spengler, Dall, 1281.
gibbus Spengler, Dall, 1281.
gibbus var. *carolinensis* Conrad, Dall, 1281.
Tainoceras cavatum, Hyatt, 2816.
duttoni n. sp., Hyatt, 2816.
quadrangulum, Hyatt, 2816.
Talarocrinus W. and Sp., Wachsmuth and Springer, 5765a.
cornigerus (Shum.), Wachsmuth and Springer, 5765a.
decornis W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
ovatus Worthen, Wachsmuth and Springer, 5765a.
patei n. sp., Miller and Gurley, 4003.
scxlobatus (Shum.), Wachsmuth and Springer, 5765a.
simplex (Shumard), Keyes, 3061.
simplex (Shum.), Wachsmuth and Springer, 5765a.
subglobosus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
symmetricus Cass. and Lyon, Wachsmuth and Springer, 5765a.
trijugis n. sp., Miller and Gurley, 3997a.
Tamiobatis vetustis n. gen. et sp., Eastman, 1599.
Tancredia bulbosa Whitf., Logan, 3559.
? knowltoni n. sp., Stanton, 6206.
magna n. sp., Logan, 3559.
Tanyops undans, Marsh, 3692.
Taonurus, James, 2894.
Tapes belviderensis n. sp., Cragin, 1116.
cyrimeriiformis Stanton, Herrick and Johnson, 2465.
cyrimeriiformis n. sp., Stanton, 5191.
dentonensis n. sp., Cragin, 1115.
Tapirus haysii Leidy, Cope, 1104.
Tarphyceras n. gen., Hyatt, 2819.
aucoini n. sp., Hyatt, 2819.
champlainese, Hyatt, 2819.
convolvens, Hyatt, 2819.
extensum, Hyatt, 2819.
prematurum n. sp., Hyatt, 2819.
Taxites olriki Heer, Knowlton, 3255.
Taxocrinus Phillips, Grabau, 2086.
concavus n. sp., Rowley, 4674, 4683.
crawfordsvillensis n. sp., Miller and Gurley, 3997a.
giddingei (Hall), Keyes, 3061.
juvenis, Whitfield, 6098.

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- Taxocrinus nuntius* Hall, Grabau, 2086.
splendens n. sp., Miller and Gurley, 3999.
subovatus n. sp., Miller and Gurley, 3991.
thiemi (Hall), Keyes, 3061.
ungula n. sp., Miller and Gurley, 3999.
wetherbyi n. sp., Miller and Gurley, 3997d.
Taxodium, Dawson, 1436.
distichum miocenium Heer, Newberry, 4083.
occidentale Newb., Newberry, 4083.
Taxus baccata L. var. *canadensis* Gray, Penhallow, 4394.
baccata var. *canadensis*, Dawson, G. M., 1418.
Tazodium tinajorum Heer var., Knowlton, 3232.
Technophorus Miller, Ulrich, 5539.
cincinnatiensis n. sp., Miller and Faber, 3997.
divaricatus n. sp., Ulrich, 5531, 5539.
? extenuatus n. sp., Ulrich, 5534, 5539.
faberi, Miller and Faber, 3996.
filistriatus n. sp., Ulrich, 5531, 5534.
punctostriatus n. sp., Ulrich, 5535.
subacutus n. sp., Ulrich, 5531, 5539.
yoldiiformis, Ulrich, 5535.
Tectulipora, Simpson, 4983.
Tectuliporella n. gen., Simpson, 4980, 4983.
Teganium subsphaericum (Walcott), Rauff, 4548.
Teinostoma caloosae n. sp., Dall, 1259.
chipolanum n. sp., Dall, 1259.
collinus n. sp., Dall, 1259.
funiculus n. sp., Dall, 1259.
microforatis n. sp., Dall, 1259.
milium n. sp., Dall, 1259.
opsitelotus n. sp., Dall, 1259.
pseudadoebris n. sp., Dall, 1259.
steiratum n. sp., Dall, 1259.
subangulatus Meyer, Harris, 2316.
vortex n. sp., Dall, 1259.
Telacodon laevis n. gen. et sp., Marsh, 3671.
Teleocrinus W. and Sp., Wachsmuth and Springer, 5765a.
adolescens W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
althea Hall, Wachsmuth and Springer, 5765a.
liratus Hall, Wachsmuth and Springer, 5765a.
rudis Hall, Wachsmuth and Springer, 5765a.
tenuiradiatus Hall, Wachsmuth and Springer, 5765a.
umbrosus Hall, Wachsmuth and Springer, 5765a.
Teleoceras fossiger, Osborn, 4202.
major n. gen., *Hatcher*, 2333, 2335.
Teleocrinus agilops, Whitfield, 6098.
Teleopternus Cope, Cope, 1104.
orientalis Cope, Cope, 1104.
Teleoschistus Scudder, Scudder, 4895.
antiquus, Scudder, 4895.
Teleostomes, Case, 766.
Teleocrinus liratus (Hall), Keyes, 3062.

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- Teliocrinus umbrosus* (Hall), Keyes, 3062.
Tellidora Mörch, Dall, 1281.
 burneti Broderip and Sowerby, Dall, 1281.
 cristata Récluz, Dall, 1281.
Tellina, Harris, 2310.
Tellina (Linne) Lamarck, Dall, 1281.
 aequatriata, Say, 4813.
 chipolana n. sp., Dall, 1281.
 cynoglossa n. sp., Dall, 1281.
 eburneopsis Con., Harris, 2315.
 greggi, Harris, 2313.
 hornii, Gabb?, Stanton, 5198.
 isonema Meek, Herrick and Johnson, 2465.
 isonema Meek, Stanton, 5191.
 lignitica n. sp., Harris, 2311.
 modesta Meek, Herrick and Johnson, 2465.
 modesta Meek, Stanton, 5191.
 peracuta, Whitfield, 6101.
 (?) *perlata* n. sp., Herrick and Johnson, 2465.
 segregato n. sp., Dall, 1281.
 strophia n. sp., Dall, 1281.
 subaequalis n. sp., Cragin, 1118.
 subalata Meek, Stanton, 5191.
 (?) *sublata* Meek, Herrick and Johnson, 2465.
 subtriangularis n. sp., Aldrich, 73.
 subtriangularis, Harris, 2313.
 tallicheti n. sp., Harris, 2307.
 virginiana n. sp., Clark, 904, 906.
 williamsi n. sp., Clark, 904, 906.
 (*Angulus*) *acalypta* n. sp. Dall, 1281.
 acosmita n. sp., Dall, 1281.
 agria n. sp., Dall, 1281.
 declivis, Whitfield, 6101.
 dupliniana n. sp., Dall, 1281.
 entaenia n. sp., Dall, 1281.
 macilenta n. sp., Dall, 1281.
 pharcida n. sp., Dall, 1281.
 pressa n. sp., Dall, 1281.
 propetenella n. sp., Dall, 1281.
 propetenera n. sp., Dall, 1281.
 suyi Deshayes, Dall, 1281.
 umbra n. sp., Dall, 1281.
 (*Arcopagia*) *trumani* n. sp., Harris, 2313.
 (*Cyclotellina*) *fausta* Donovan, Dall, 1281.
 (*Eurytellina*) *alternata* Say, Dall, 1281.
 roburina n. sp., Dall, 1281.
 scapha n. sp., Dall, 1281.
 n. sp., Dall, 1281.
 (*Macaliopsis*?) *cloneta* n. sp., Dall, 1281.
 merula n. sp., Dall, 1281.
 (*Merisca*) (?) *acrocsmia* n. sp., 1281.
 aequistriata Say, Dall, 1281.
 caloosana n. sp., Dall, 1281.
 dinomera n. sp., Dall, 1281.
 (?) *halidona* n. sp., Dall, 1281.
 hypolispa n. sp., Dall, 1281.
 sclera n. sp., Dall, 1281.
 (*Moerella*?) *Aldrichi* n. sp., Dall, 1281.
 (*Moerella*) *Simpsoni* n. sp., Dall, 1281.
 aceloneta n. sp., Dall, 1281.
 hendersoni n. sp., Dall, 1281.

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- Tellina* (*Moerella*) *mucinella* n. sp., Dall, 1281.
 (*Moerella*) *suberis* n. sp., Dall, 1281.
 (*Oudardia*) *buttoni*, Dall, 1281.
 (*Palaeomocra*) *whitei* Stanton, Herrick and Johnson, 2465.
 (*Palaeomocra*) *whitei* n. sp., Stanton 5191.
 (*Peronæoderma*) *producta*, Whitfield, 6101.
 (*Phyllostoma*) *dodona*, Dall, 1281.
 halistrepta n. sp., Dall, 1281.
 lepidota n. sp., Dall, 1281.
 (*Scissula*) *calliglypta* n. sp., Dall, 1281.
 lampra n. sp., Dall, 1281.
 scitula n. sp., Dall, 1281.
 similis Sowerby, Dall, 1281.
 (*Tellinella*) *capillifera*, Whitfield, 6101.
Tellinomya Hall, Miller and Faber, 3997.
 alta, Whitfield, 6102.
 compressa n. sp., Ulrich, 5534.
 elliptica, Foerste, 1835.
 inflata, Whitfield, 6102.
 intermedia n. sp., Ulrich, 5534.
 longa n. sp., Ulrich, 5531.
 nitida n. sp., Ulrich, 5534.
 ovata, Whitfield, 6102.
 planodorsata n. sp., Ulrich, 5534.
 pulchella n. sp., Clarke, 976.
 recurva n. sp., Ulrich, 5534.
 similis n. sp., Ulrich, 5534.
 subrecta n. sp., Clarke, 976.
 subrotunda n. sp., Ulrich, 5539.
 ventricosa, Whitfield, 6102.
 (*Nucula*?) *clintonensis* n. sp., Foerste, 1835.
 minima, Foerste, 1835.
 socialis n. sp., Foerste, 1835.
Tellinopsis Hall, Grabau, 2086.
 submarginata (Conrad), Grabau, 2086.
Telmaticyon n. gen., Marsh, 3719.
Telmatotherium cornutum n. sp., Osborn, 4190.
 diploconum n. sp., Osborn, 4190.
 hyognathum, Osborn, 4190.
 hyognathus, Earle, 1590.
 megarhinum Earle, Osborn, 4190.
 vallidens Cope, Osborn, 4190.
Telmatrechus Scudder, Scudder, 4895.
 stali, Scudder, 4895.
Temnocheilus McCoy, Hyatt, 2816
 conchiferus, Hyatt, 2816.
 coxanus, Hyatt, 2816.
 crassus n. sp., Hay, 2389.
 greenense n. sp., Miller and Gurley, 4003.
 subtuberculatus, Hyatt, 2819.
Temnocyon ferox n. sp., Eyerma, 1728, 1724.
Tenebrio calculensis, Scudder, 4896.
 primigenius, Scudder, 4896.
Tenillus n. gen., Scudder, 4890.
 firmus, Scudder, 4890.
Tentaculites Schlotheim, Grabau, 2086.
 ? *acus* n. sp., Clarke, 971.
 bellulus Hall, Grabau, 2086.
 canadensis n. sp., Ami, 88.

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- Tentaculites eldredgianus Hartt and Rathbun, Clarke, 976.
 elongatus Hall, Clarke, 971.
 gracilistriatus Hall, Grabau, 2586.
 incurvus Shumard, Keyes, 3062.
 oseryi n. sp., Clarke, 976.
 stubeli n. sp., Clarke, 976.
 trombetensis n. sp., Clarke, 976.
 Tenuiscala trapaquara n. sp., Harris, 2307.
 var. engona n. var., Harris, 2307.
 Terataspis grandis Hall, Clarke, 145.
 Terebra Bruguiere, Dall, 1269.
 gabbi, Dall, 1269.
 haitensis n. sp., Dall, 1269.
 galvestonensis n. sp., Harris, 2809.
 houstonia n. sp., Harris, 2307.
 inornata n. sp., Dall, 1269.
 langdoni, Harris, 2309.
 plicifera, Aldrich, 74.
 sincera n. sp., Dall, 1269.
 texagrya n. sp., Harris, 2307.
 wattsiana n. sp., Cooper, 1071.
 (Acus) amita n. sp., Dall, 1269.
 bipartita Sowerby, Dall, 1269.
 chipolana n. sp., Dall, 1269.
 concava Say, Dall, 1259.
 curvilineata n. sp., Dall, 1269.
 curvilineata, Whitfield, 6101.
 curvilirata Conrad, Dall, 1269.
 dislocata Say, Dall, 1259.
 dislocata var. indenta Conrad, Dall, 1269.
 inornata n. sp., Whitfield, 6101.
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(?) occidentalis n. sp., Knowlton, 3246.
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imbricata? (Hall), Keyes, 3062.
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 (?) lepida Hall, Grabau, 2086.
 Trigonarca pulchra var., Harris, 2313.
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(Eunema) aretatum n. sp., Ulrich and Scofield, 5541.

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Troostocrinus dubius n. sp., Rowley, 4677.

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Tropidocyclus gillettianus, Hartt and Rathbun (sp.), Clarke, 976.*Tropidodiscus cyrtolites* (Hall), Weller, 5994.*Tropidoleptus*, Hall, Grabau, 2086.*Tropidoleptus* Hall, Hall and Clarke, 2261a, 2264.

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(Mathilda) claibornensis Ald., Aldrich, 73.

(Mathilda) leana n. sp., Aldrich, 74.

Tudicla planimarginata n. sp., Whitfield, 6097.*Tuditatus*, Case, 767.*Tugonia* Gray, Dall, 1272.

compacta n. sp., Dall, 1272.

(Tugoniopsis) Dall, Dall, 1272.

Turbinaria (?) *alabamensis* n. sp., Vaughan, 5735.*Turbinella chipolana* n. sp., Dall, 1259.

parva, Whitfield, 6097.

polygonata Heilprin, Dall, 1259.

regina Heilprin, Dall, 1259.

scolymoides n. sp., Dall, 1259.

subcapitellum Heilprin, Dall, 1259.

subconica, Whitfield, 6097.

verticalis n. sp., Whitfield, 6097.

wilsoni Conrad, Dall, 1259.

(Glyptostyla ?) baculus Ald., Harris, 2316.

(Vasum) haitense Sowerby var. engonatum, Dall, 1259.

Turbinola acuticostata n. sp., Vaughan, 5720.*Turbinolia acuticostata*, Vaughan, 5735.

claibornensis n. sp., Vaughan, 5735.

insignifica n. sp., Vaughan, 5735.

pharetra Lea, Vaughan, 5735.

wautubbeensis n. sp., Vaughan, 5735.

Turbinopsis angulata n. sp., Whitfield, 6097.

curta n. sp., Whitfield, 6097.

elevata n. sp., Whitfield, 6097.

hilgardi ?, Whitfield, 6097.

major n. sp., Whitfield, 6097.

plicata n. sp., Whitfield, 6097.

septariana n. sp., Cragin, 1115.

Turbinoserie Duncan, Vaughan, 5734.

cantabridgiensis n. sp., Vaughan, 5734.

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- Turbinoserie jamaicensis* n. sp., Vaughan, 5734.
- Turbo colusaensis* n. sp., Stanton, 5199.
- ? *humerosus* n. sp., Stanton, 5199.
- morganensis* n. sp., Stanton, 5199.
- paskentaensis* n. sp., Stanton, 5199.
- rhetogrammicus* n. sp., Dall, 1259.
- trilineatus* n. sp., Stanton, 5199.
- wilburensis* n. sp., Stanton, 5199.
- Turbonilla angulata* n. sp., Guppy and Dall, 2214.
- chipolana* n. sp., Dall, 1259.
- interrupta* Totten, Dall, 1259.
- multicostata* C. B. Adams, Dall, 1259.
- nivea* Stimpson, Dall, 1259.
- plastica* n. sp., Guppy and Dall, 2214.
- protracta* n. sp., Dall, 1259.
- puncta* C. B. Adams, var. *obsoleta* Dall, Dall, 1259.
- punicea* Dall, Dall, 1259.
- pupoides* d'Orbigny, Dall, 1259.
- pusilla* C. B. Adams, Dall, 1259.
- reticulata* C. B. Adams, Dall, 1259.
- simplicior* n. sp., Guppy and Dall, 2214.
- speira* Ravenel?, Dall, 1259.
- stricta* Verrill, Dall, 1259.
- tenuilineata* n. sp., Guppy and Dall, 2214.
- textilis* Kurtz, Dall, 1259.
- turritissima* n. sp., Guppy and Dall, 2214.
- virga* Dall, Dall, 1259.
- virgata* Dall, Dall, 1259.
- (*Ondina*) *fragilis* n. sp., Dall, 1259.
- (*Stylopsis*) *ictona* n. sp., Guppy and Dall, 2214.
- sp., Harris, 2316.
- Turricula leda* n. sp., Whitfield, 6097.
- reileyi* n. sp., Whitfield, 6097.
- scalariformis* n. sp., Whitfield, 6097.
- (*Conomitra*) *texana* n. sp., Harris, 2307.
- Turrilepas wrightiana*, Clarke, 951.
- Turritiles carlottensis* Whiteaves, Whiteaves, 6095a.
- pauper* n. sp., Whitfield, 6097.
- Turritella æquistriata*, Whitfield, 6101.
- alabamiensis*, Harris, 2310.
- alcida* n. sp., Dall, 1269.
- allentonensis* n. sp., Aldrich, 70.
- apicalis* Heilprin, Dall, 1259.
- arata* n. sp., Guppy and Dall, 2214.
- avenicola* var. *branneri* n. var., Harris, 2305.
- belvideri* n. sp., Cragin, 1129.
- chipolana* n. sp., Dall, 1259.
- clevelandia* n. sp., Harris, 2305.
- clevelandia* Ald. var., Harris, 2316.
- coalvillensis* Mk., Cragin, 1115.
- compacta* n. sp., Whitfield, 6097.
- cumberlandia* Whitfield, 6101.
- denisonensis* n. sp., Cragin, 1118.
- diversilineata* n. sp., Merriam, 3919.
- dumblei* n. sp., Harris, 2307.
- dutextata* n. sp., Harris, 2307.
- eneriniodes*, Whitfield, 6097.
- granulicostata*, Whitfield, 6097.
- hardimanensis*, Whitfield, 6097.

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- Turritella humerosa* Conrad, Clark, 906.
- humerosa* Con., Harris, 2310, 2315, 2316.
- infragranulata* Gabb, Stanton, 5198.
- interna*, Say, 4813.
- lippincotti* n. sp., Whitfield, 6097.
- megalobasis* n. sp., Dall, 1259.
- miconema* Meek, Stanton, 5191.
- mortoni* Con., Harris, 2315, 2316.
- mortoni* Conrad, Clark, 906.
- mortoni* var. *levicunea* n. var., Harris, 2310.
- nasuta* var., *houstonia* n. var., Harris, 2307.
- nerinexa* n. sp., Harris, 2307, 2310.
- pachecoensis* n. sp., Stanton, 5198.
- parattenuata* Heilprin, Dall, 1259.
- plebeia*, Say, 4813.
- præcincta* Con., Harris, 2316.
- pumila*?, Whitfield, 6097.
- renauxiana* D'Orb., Cragin, 1115.
- saffordi*, Harris, 2310.
- secta*, Whitfield, 6101.
- seriatim-granulata* Roem., Cragin, 1115.
- subannulata* Heilprin, Dall, 1259.
- subgrundifera* n. sp., Dall, 1259.
- subgrundifera* Dall, Harris, 2309.
- tampæ* Heilprin, Dall, 1259.
- var. *pagodæformis* Heilprin, Dall, 1259.
- tripartita*, Dall, 1259.
- tennesseensis*, Harris, 2310.
- terebriformis* n. sp., Dall, 1259.
- vertebroides*, Whitfield, 6097.
- whitei*, Stanton, Herrick and Johnson 2465.
- whitei* n. sp., Stanton, 5191.
- whitei* Stanton, Logan, 3554.
- wilcoxiana* n. sp., Aldrich, 70.
- (*Mesalia*?) *plebeia*, Whitfield, 6101.
- sp., Stanton, 5199.
- Turtonia* Alder, Dall, 1281.
- minuta* Fabricius, Dall, 1281.
- Tusoleuthis*, n. gen., Logan, 3554.
- longus*, n. sp., Logan, 3554.
- Tychius evolatus*, Scudder, 4890.
- secretus*, Scudder, 4890.
- Tylodictya* n. gen., Hall and Clarke, 2269, 2271.
- (?) *tenuis* Hall (sp.), Hall and Clarke, 2269, 2271.
- warrenensis* n. sp., Hall and Clarke, 2269, 2271.
- Tylosaurus*, Williston, 6237, 6238, 6245.
- dyspelor*, Cope, Osborn, 4212.
- dyspelor*, Williston, 6245.
- micromus*, Williston, 6245.
- nepæolicus*, Williston, 6245.
- proriger*, Williston, 6245.
- Tylostoma*, *mutabilis* Gabb, Cragin, 1115.
- pedernalis* (Roemer), Hill, 2539.
- Typhis floridanus* Dall, Dall, 1259.
- linguiferus* n. sp., Dall, 1259.
- obesus* Gabb, Guppy and Dall, 2214.
- Typodus*, Hay, 2381.

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- Uintacrinus, Springer, 5162.
socialis Grinnell, Beecher, 382.
socialis Grinnell, Clark, 892.
socialis Grinnell, Hill, 2532.
socialis Grinnell, Logan, 3554.
socialis Grinn., Springer, 5164.
socialis Grinnell, Williston, 6226.
- Uintacyon Leidy, Wortman and Matthew, 6496.
brevirostris (Cope), Wortman and Matthew, 6496.
canavus (Cope), Wortman and Matthew, 6496.
edax Leidy, Wortman and Matthew, 6496.
promicrodon, n. sp., Wortman and Matthew, 6496.
pugnax, n. sp., Wortman and Matthew, 6496.
vorax Leidy, Wortman and Matthew, 6496.
- Ullas moratus n. gen. et sp., Cope, 1096.
Ulmiphyllum densinerve n. sp., Fontaine, 1850.
Ulmophyllum priseum n. sp., Dawson, 1456.
Ulmus minima? Ward, Knowlton, 3255.
oregoniana n. sp., Knowlton, 3262.
pseudo-fulva? Lx., Knowlton, 3255.
recemosa, Dawson, G. M., 1418.
speciosa Newb., Newberry, 4083.
tenuinervis, Hollick, 2708.
- Ulocrinus n. gen., Miller and Gurley, 3991.
buttsi n. sp., Miller and Gurley, 3991, 3997a.
kansasensis n. sp., Miller and Gurley, 3991.
occidentalis n. sp., Miller and Gurley, 3997a.
- Ulodendron, Dawson, 1455.
Ultimus precursor n. sp., Guppy and Dall, 2214.
- Umbonium duplinense n. sp., Dall, 1269.
undula n. sp., Dall, 1269.
(Solariorbis) floridanum n. sp., Dall, 1269.
- Umbraeulm sp., Aldrich, 73.
Umbrella sylvaerupis n. sp., Harris, 2316.
- Uncia inexpectata Cope, Cope, 1104.
mercerii n. sp., Cope, 1099.
- Uncinelli Waagen, Hall and Clarke, 2261, 2264.
Uncinulina Bayle, Hall and Clarke, 2261a.
- Uncinulus Bayle, Hall and Clarke, 2261a, 2264.
? acutiplicatus (Hall), Girty, 2037.
pyramidatus Hall?, Girty, 2037.
- Uncites DeFrance, Hall and Clarke, 2261, 2264.
- Unigerina asperula Czjzek, Woodward and Thomas, 6433.
canariensis d'Orbigny, Woodward and Thomas, 6433.
- Unio baileyi n. sp., Logan, 3559.
barbouri n. sp., White, 6035.
belliplicatus Meek, White, 6036.
dockumensis n. sp., Simpson, 4978.
dumblei n. sp., Simpson, 4978.
graciliratus n. sp., Simpson, 4978.
knighti n. sp., Logan, 3559.
subplanatus n. sp., Simpson, 4978.
vetustus Meek, White, 6036.

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- Unio willistoni n. sp., Logan, 3559.
(Unio) calcoosensis n. sp., Dall, 1272.
- Unitrypa Simpson, 4983.
Unitrypa Hall, Grabau, 2086.
acclivis Hall, Clarke, 971.
lata Hall, Clarke, 971.
scalaris Hall, Grabau, 2086.
- Uranoplosus arctatus n. sp., Cope, 1093.
flectidens n. sp., Cope, 1093.
- Urosalpinx trossulus Conrad, Dall, 1259.
Urosyca cadata Gabb, Stanton, 5198.
- Urotheca n. gen., Matthew, 3788.
flagellum n. sp., Matthew, 3788.
parva n. sp., Matthew, 3788.
pervetus, Matthew, 3790.
pervetus Matthew, Burr, 666.
pervetus Matthew, Grabau, 2092.
- Ursus americanus pallas, Cope, 1104.
haplodon n. sp., Cope, 1101.
haplodon Cope, Cope, 1104.
- procerus*, n. sp., Miller, 3988a.
- Utriculus vaginatus n. sp., Dall, 1259.
- Uvigerina canariensis, Bagg, 148.
pygmæa, Bagg, 148.
tenuistriata, Bagg, 148.
teuistriata Reuss, Chapman, 870.
- Vaginella chipolana n. sp., Dall, 1259.
Vaginoceras belemnitiiforme, Hyatt, 2820.
- Vaginulina legumen, Bagg, 148.
legumen (Linné), Bagg, 150.
strigillata Reuss, Bagg, 150.
- Valvata leei n. sp., Logan, 3559.
tricarinata Say, Baker, 217.
- Vanikoro propinqua n. sp., Cragin, 1118.
- Vanikorpis tuomeyana M. and H., Herrick and Johnson, 2465.
- Vanuxemia Billings, Ulrich, 5539.
abrupta n. sp., Ulrich, 5539.
crassa n. sp., Ulrich, 5539.
decipiens n. sp., Ulrich, 5539.
dixonensis Meek and Worthen, Ulrich, 5539.
var. insueta n. var., Ulrich, 5539.
- hayniana Safford, Ulrich, 5539.
media n. sp., Ulrich, 5539.
obtusifrons Ulrich, Ulrich, 5539.
rotundata Hall, Ulrich, 5539.
sardesoni Ulrich, Ulrich, 5539.
suberecta n. sp., Ulrich, 5539.
subrotunda n. sp., Ulrich, 5539.
terminalis Ulrich, Ulrich, 5539.
umbonata n. sp., Ulrich, 5539.
wortheni Ulrich, Ulrich, 5539.
- Vasum conoides n. sp., Whitfield, 6097.
humerosum, Vaughan, 5722.
- Venericardia alticostata var., Harris, 2313.
alticostata, Harris, 2310.
granulata, Say, 4813.
planicosta Lamarek, Clark, 906.
planicosta, Harris, 2310, 2313, 2315.
var. smithi, Harris, 2310.
smithii n. sp., Aldrich, 70.
trapaquara n. sp., Harris, 2307.
- Veniella goniophora Meek, Stanton, 5191.
goniophora, Meek, Herrick, and Johnson, 2465.

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- Veniella mortoni* M. and H., Herrick and Johnson, 2465.
mortoni M. and H., Stanton, 5191.
 sp., Harris, 2315.
Venus, Woolman, 6474.
deformis, Say, 4813.
ducateli, Whitfield, 6101.
malonensis n. sp., Cragin, 1115.
(Artena) staminea, Whitfield, 6101.
Vermetus (Burtinella) cornejoi n. sp., Aguilera, 57.
Vermentus sp., Clark, 906.
Vermipora Hall, Girty, 2034.
serpuloides Hall var., Clarke, 971.
streptocelia n. sp., Clarke, 971.
Verneuila Hall, Hall and Clarke, 2264.
Verneuila polystropha (Reuss), Baggs, 150.
pygmaea Egger sp., Woodward and Thomas, 6433.
triquetra (Münster), Baggs, 150.
Verticordia sp., Harris, 2310.
Viburnites crassus n. sp., Lesquereux, 3470.
evansanus Ward, Ward, 5856.
masoni n. sp., Lesquereux, 3470.
Viburnum antiquum (Newb.) Hollick, Newberry, 4083.
anomalous n. sp., Knowlton, 3264.
asperum Newb., Newberry, 4083.
cuneatum Newb., Newberry, 4083.
ellsworthianum n. sp., Lesquereux, 3470.
greviopsidium n. sp., Lesquereux, 3470.
inaequilaterale n. sp., Lesquereux, 3470.
integrifolium n. sp., Newberry, 4080.
lanceolatum Newb., Newberry, 4083.
lesquereuxii n. sp., Lesquereux, 3470.
 var. *cardifolium* n. var., Lesquereux, 3470.
 commune n. var., Lesquereux, 3470.
lanceolatum n. var., Lesquereux, 3470.
latus n. var., Lesquereux, 3470.
longifolium n. var., Lesquereux, 3470.
rotundifolium n. var., Lesquereux, 3470.
tenuifolium n. var., Lesquereux, 3470.
montanum n. sp., Knowlton, 3264.
 ? *problematicum* n. sp., Knowlton, 3264.
robustum n. sp., Lesquereux, 3470.
rotundifolium Lx., Knowlton, 3255.
sphenophyllum n. sp., Lesquereux, 3470.
whymperi Heer, Knowlton, 3264.
Vicarya branneri n. sp., Hill, 2539.
Vinella, Simpson, 4983.
Vinella Ulrich, Ulrich, 5537.
repens Ulrich, Ulrich, 5537.
Vitis rotundifolia Newberry, Knowlton, 3232.
rotundifolia Newb., Newberry, 4083.
Vitrewebbina Chapman, Baggs, 150.
laevis (Sollas), Baggs, 150.
sollasi Chapman, Baggs, 150.
Vitulina Hall, Grabau, 2086.
Vitulina Hall, Hall and Clarke, 2261, 2264.

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- Vitulina pustulosa* Hall, Grabau, 2086.
Viviparus conesi White, White, 6036.
Vola bellula n. sp., Cragin, 1115.
catherina n. sp., Cragin, 1115.
duplicicosta Roem., Cragin, 1115.
fredericksburgensis n. sp., Cragin, 1118.
humphreyso, Whitfield, 2086.
wrightii Shum., Cragin, 1115.
Volborthia von Möller, Hall and Clarke, 2260.
Voluta clarae n. sp., Harris, 2276.
delawarensis, Whitfield, 6097.
florencis n. sp., Harris, 2310.
lelia n. sp., Whitfield, 6097.
lyroidea, Harris, 2310.
newcombiana Whitf., Harris, 2316.
parvula n. sp., Whitfield, 6097.
percelevata n. sp., Whitfield, 6097.
scaphoides n. sp., Whitfield, 6097.
(Amoria) vesta n. sp., Whitfield, 6097.
(Scaphella) newcomniana, Whitfield, 6097.
 sp., Harris, 2316.
 sp., indet., Dall, 1259.
Volutilithes cancellatus n. sp., Whitfield, 6097.
dalli n. sp., Harris, 2307.
limopsis, Harris, 2310.
lisbonensis n. sp., Aldrich, 74.
lyroidea n. sp., Aldrich, 70.
petrosus Con. Harris, 2315, 2316.
precursor Dall, Dall, 1259.
quercollis n. sp., Harris, 2310.
rugatus, Harris, 2310.
 var. *saffordi*, Harris, 2310.
sayana, Whitfield, 6097.
(Athleta) Conrad, Dall, 1259.
tuomeyi Conrad, Clark, 906.
(Caricella) Conrad, Dall, 1259.
 s. s., Dall, 1259.
 sp., Clark, 906.
Volutocorbis Dall, Dall, 1259.
Volutoderma abbotti, Whitfield, 6097.
biplicata, Whitfield, 6097.
intermedia n. sp., Whitfield, 6097.
ovata n. sp., Whitfield, 6097.
Volutomorpha conradi, Whitfield, 6097.
gabbi n. sp., Whitfield, 6097.
kanei, Whitfield, 6097.
mucronata, Whitfield, 6097.
 (?) *nova-mexicana*, n. sp., Herrick and Johnson, 2465.
ponderosa n. sp., Whitfield, 6097.
(Piestochilus) bella, Whitfield, 6097.
Volvaria bulloides Lam., Aldrich, 73.
gabbiana n. sp., Harris, 2307.
(Volvariella) alabamensis n. sp., Aldrich, 74.
(Volvariella) alabamensis Ald., Harris, 2316.
Volvula? smithvillensis n. sp., Harris, 2307.
 sp., Harris, 2309.
Vulpavus palustris Marsh, Wortman and Mathew, 6496.
parvivorus (Cope), Wortman and Mathew, 6496.
Vulpes cinereocargentatus, Cope, 1104.
latidentatus, n. sp., Cope 1104.

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- Waldheimia catorcensis n. sp., Aguilera, 50.
 imbricata n. sp., Cooper, 1071.
 Warthia Waagen, Ulrich and Scofield, 5541.
 Watsonella n. gen., Grabau, 2092.
 crosbyi n. sp., Grabau, 2092.
 Weichselia reticulata (Stokes & Webb) Ward
 n. comb., Fontaine, 1850.
 Whitella Ulrich, Ulrich, 5539.
 compressa Ulrich, Ulrich, 5539.
 concentrica n. sp., Ulrich, 5534, 5539.
 megambona Whitfield, Ulrich, 5539.
 obliquata Ulrich, Ulrich, 5539.
 ohioensis n. sp. or var., Ulrich, 5534.
 præcipita, Ulrich, 5534, 5539.
 quadrangularis Whitfield, Ulrich, 5539.
 rugatula n. sp., Ulrich, 5539.
 scofieldi Ulrich, Ulrich, 5539.
 sterlingensis Meek and Worthen, Ulrich,
 5529.
 subcarinato n. sp., Ulrich, 5539.
 truncata Ulrich, Ulrich, 5539.
 ventricosa Hall, Ulrich, 5539.
 Whitfieldella Hall, Hall and Clarke, 2261,
 2264.
 Whittleseyia campbelli n. sp., White, 6052.
 elegans Newb. var. minor n. var., White,
 6052.
 microphylla Lx., White, 6052.
 Widdringtonia? complanata Lx., Knowlton,
 3264.
 Widdringtonites reichii (Ett.) Heer (?), Hol-
 lick, 2695.
 reichii (Ett.) Heer, Newberry, 4080.
 subtilis Heer, Newberry, 4080.
 Williamsonia elocata n. sp., Lesquereux, 3470.
 ? phenicopsoides Ward n. sp., Fontaine,
 1850.
 smockii n. sp., Newberry, 4080.
 texana n. sp., Fontaine, 1846, 1847.
 Wilsonia (Quenstedt) Kayser, Hall and Clarke,
 2261a, 2264.
 Winchellia, Lesquereux, 3471.
 Winchellina fascina n. gen. et sp., Herzer,
 2499.
 fascina, Knowlton, 3226.
 Woodocrinus elegans (Hall), Keyes, 3061.
 Woodwardia crenata n. sp., Knowlton, 3264.
 preareolæa n. sp., Knowlton, 3255.
 sp., Knowlton, 3264.
 Worthenopora, Simpson, 4983.
 Xantholinus tenebrarius n. sp., Scudder, 4900.
 Xenocrinus S. A. Miller, James, 2889.
 penicillus S. A. Miller, James, 2889.
 bæri Meek, James, 2889.
 Xenodus hertzeri, Hay, 2381.
 Xenophora conchyliophora Born., Harris, 2316.
 conchyliophora Born., Dall, 1259.
 lapiferens n. sp., Whitfield, 6097.
 leprosa, Whitfield, 6097.
 simpsoni n. sp., Stanton, 5191.
 sp., Harris, 2310.
 Xerobatus (?) undata Cope, Gilbert, 2022.
 Xiphactinus Leidy, Stewart, 5241.
 brachygnathus n. sp., Stewart, 5241.
 molossus Cope, Stewart, 5238.

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- Xiphactinus thummas Cope, Stewart, 5238.
 Xiphosphera, Matthew, G. F., 3760.
 Xylobius dawsoni Scudder, Scudder, 4897.
 similis Scudder, Scudder, 4897.
 Xylophaga, Turton, Dall, 1272.
 Yoldia, Moller, Dall, 1272.
 aldrichiana, Harris, 2313.
 corpulentoides n. sp., Aldrich, 73.
 eborea, Harris, 2310.
 frater n. sp., Dall, 1272.
 glabra n. sp., Beede and Rogers, 396.
 kindlei n. sp., Harris, 2310.
 lævis, Say, Dall, 1272.
 limatula, Whitfield, 6101.
 psammotea n. sp., Dall, 1272.
 septariana n. sp., Cragin, 1115.
 subelliptica n. sp., Stanton, 5191.
 tarpeia n. sp., Dall, 1272.
 Yorkia n. gen., Walcott, 5808.
 gramineoides Ward n. sp., Ward, 5857.
 wanneri n. sp., Walcott, 5808.
 (?) washingtonensis n. p., Walcott, 5808.
 Zacanthoides spinosus Walcott, Matthew, 3788.
 sp. undet., Walcott, 5816.
 Zamenis acuminatus Cope, Cope, 1104.
 Zamia washingtoniana n. sp., Ward, 5846.
 Zamiostrobus virginicensis Fontaine, Ward,
 5857.
 Zaminites borealis Heer, Fontaine, 1850.
 brevipennis Heer, Fontaine, 1850.
 montana, Dawson, 1434.
 pennsylvanicus Fontaine n. sp., Ward
 5857.
 tenuinervis Font., Fontaine, 1846.
 yorkensis Fontaine n. sp., Ward, 5857.
 (?) Fontaine, 1850.
 sp., Lesquereux, 3470.
 Zancloclon, Case, 768.
 Zaphrentis Rafinesque, Grabau, 2086.
 acuta White and Whitfield, Keyes, 3061.
 acuticornis n. sp., Greene, 2162.
 albersi n. sp., Greene, 2162d.
 ampliatus n. sp., Greene, 2162a.
 brevicornis n. sp., Greene, 2162d.
 calceola White and Whitfield, Keyes, 3061.
 calyculus n. sp., Miller, 3992.
 capuliformis n. sp., Rowley, 4677a.
 centralis, Worthen, Keyes, 3061.
 choteauensis n. sp., Miller, 3992.
 comis n. sp., Greene, 2162a.
 cylindrica Worthen, Keyes, 3061.
 dalei Edwards and Haime, Keyes, 3061.
 declinis n. sp., Miller, 3992.
 elliptica White, Keyes, 3061.
 exigua n. sp., Miller, 3992.
 gigantea Lesueur sp., Lambe, 3375.
 grosbachi n. sp., Greene, 2162d.
 hobbsi n. sp., Greene, 2162b.
 humilis n. sp., Greene, 2162.
 illinoisensis Worthen, Keyes, 3061.
 ischypus n. sp., Greene, 2162a.
 jacksoni n. sp., Greene, 2162c.
 limatus n. sp., Greene, 2162.
 minas Dawson, Lambe, 3375.
 mirabilis Billings sp., Lambe, 3375.

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 Granite-porphyrte, Lindgren, 3531.
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 Granite-porphyrte, Ferrier, 1813.
 Granite-porphyrte, Haworth, 2357.
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 Hornblende-bearing biotite-granite, Diller, 1507.
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 Hornblende-mica-andesite, Diller, 1507.
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 Hornblende-mica-porphyr, Turner, 5457.
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 Mica-dacite, Cross, 1191.
 Mica-diorite gneiss, Ferrier, 1811.
 Mica-peridotite, Diller, 1494.
 Mica-porphyrity, Ferrier, 1813.
 Mica-schist, Clements, 1014.
 Mica-schist, Diller, 1507.
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 Quartz-augite-diorite, Turner, 5465.
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 Quartz-diabase, Brooks, 615.
 Quartz-diabase, Lane, 3382.
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 Quartz-keratophyre, Weidman, 5969.
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 Quartz-mica-porphyrite, Ferrier, 1813.
 Quartz-mica-diorite-porphyry, Iddings, 2844.
 Quartz-monzonite, Turner, 5479, 5481.
 Quartz-muscovite schist, Ransome, 4543.
 Quartz-norite-gneiss, Diller, 1507.
 Quartz-pantellerite, Lord, 3573.
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