

## Technology Transfer Opportunities: Patent Licenses Fluid Controlled Isokinetic Fluid Sampler

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### Introduction

Interested businesses and companies can obtain licenses to patented inventions of the U.S. Geological Survey (USGS). A patent license permits a company to manufacture, use, sell and/or make the covered invention. The USGS often makes licensing opportunities known through its Technology Transfer Office once an invention is patented or receives a patent application number. Recently, the USGS received notice from the U.S. Patent and Trademark Office that a patent application, #08/571,648 has been filed for the invention, "Fluid Controlled Isokinetic Fluid Sampler." This technology is now available for license to any interested party.

### About the Sampler

The invention is a means for obtaining a sample of flowing fluid, and material suspended with the fluid, from a flow stream so that the concentration of contaminants in the flow stream can be measured. Samples of flowing fluids and materials suspended in them, such as flowing water in a river or stream or the discharge water from an industrial plant or water treatment plant, are often used to test the quality of the flowing fluid. However, to provide meaningful test results, such samples must be representative of the flow stream and free from contamination by the sampler itself.

Using the USGS fluid controlled isokinetic fluid sampler, a sample enters the device at a flow rate equal to that of the flow stream. This enables the concentration of contaminants in the sample to be

representative of the concentration in the flow stream. In addition, the design of the isokinetic sampler device prevents the fluid sample from being contaminated by the sampling unit itself.

### Uses of the Invention

The fluid controlled isokinetic fluid sampler can be used to measure the concentration of contaminants in flow streams, such as sediment and other water quality constituents. It can be used to test the water quality of rivers and streams or of the effluents of industrial and waste water treatment plants.

The sampler offers applications other than to fluid sampling and can be used to obtain samples of flowing gases, such as vehicle exhaust gas, if desired.

### For More Information

For more information about the invention, please contact the inventor:

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To find out how you can apply for a patent license to use this technology or about other license opportunities from the USGS, please contact:

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