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United States Patent [19]

Krueger

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[54] **NEGATIVE PRESSURE GAS SAMPLING DEVICE**

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[52] **U.S. Cl.** **73/864.35**; 73/863.84; 73/864.11; 73/864.62

[58] **Field of Search** 73/23.41, 863.84, 863.86, 73/864.11, 864.13, 864.15, 864.16, 864.35, 864.62

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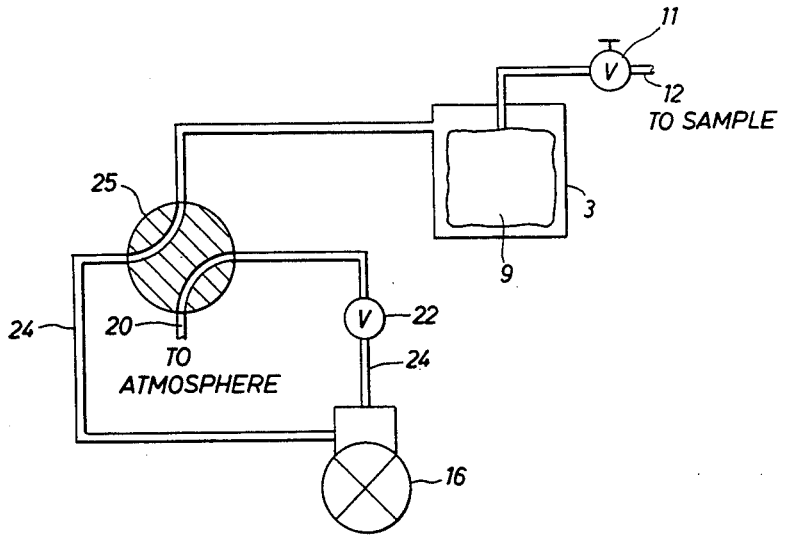
[57] **ABSTRACT**

An apparatus for collecting fluid samples is presented having a sealable container which has an opening and a cover for sealing and unsealing the opening, an inlet which includes a means for communicating between the inside of the container and the environment outside the container, a sample vessel which has an orifice or other means for filling and sealing it when samples are drawn therein through the inlet, and a means for selectively evacuating and pressurizing the space between the vessel and the container. Actuation of the means for evacuating and pressurizing the space between the vessel and the container repeatedly induces the vessel to alternately be filled with fluid from the environment outside the container and emptied of its contents to the environment through the inlet. A fluid sampling method is also provided.

19 Claims, 3 Drawing Sheets