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(54) Title: FLUID ANALYSIS SYSTEM AND METHOD FOR OPERATION OF AN ANALYSIS SYSTEM

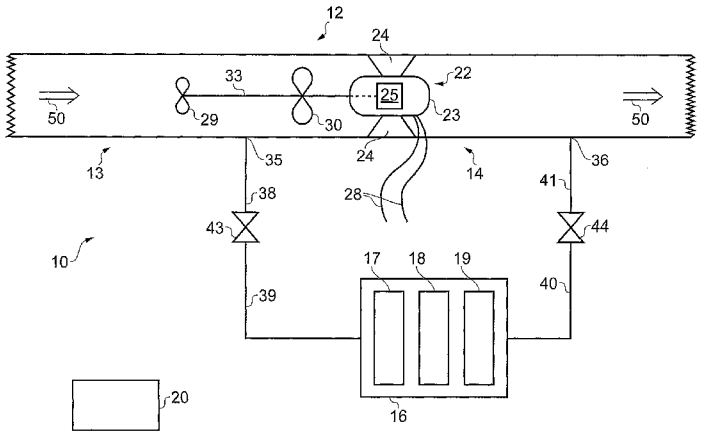


FIG. 1

(57) Abstract: A fluid analysis system (10) is provided for analysis of a fluid flowing in a pipe or in a pipeline. The fluid analysis system (10) comprises a pipe portion (12) which, when the fluid analysis system is put to use, forms a part of the pipe or the pipeline through which the fluid flows. The pipe portion (12) is provided with a fluid sample outlet (35) for withdrawal of fluid samples from the fluid flowing through the pipe portion (12) and a fluid sample return outlet (36) for returning fluid samples to the pipe portion (12), where the fluid sample return outlet (36) is arranged downstream of the fluid sample outlet (35). The fluid analysis system (10) further comprises a fluid analyser (16) which is provided in fluid communication with the fluid sample outlet (35) and the fluid sample return outlet (36), and a propeller unit (22) which is provided with at least one upstream propeller (29) and at least one downstream propeller (30). The propeller unit (22) is mounted in the pipe portion (12) in such a manner that the upstream propeller (29) is located upstream of the fluid sample outlet (35) thereby enabling the upstream propeller (29) to mix the fluid in the pipeline before fluid samples are withdrawn through the fluid sample outlet (35), and in such a manner that the downstream propeller (30) is located downstream of the fluid sample outlet (35) and upstream of the fluid sample return outlet (36), thereby enabling the downstream propeller (30) to provide a pressure drop in the pipe portion (12) between the fluid sample outlet (35) and the fluid sample return outlet (36) which is sufficient to drive the fluid samples through the fluid analysis system (10). A method is also provided for operation of a fluid analyser (16).

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