

Title (en)

METHOD FOR MONITORING A FLOWING FLUID

Title (de)

VERFAHREN ZUR ÜBERWACHUNG EINER FLIESSENDEN FLÜSSIGKEIT

Title (fr)

PROCÉDÉ POUR SURVEILLER UN FLUIDE S'ÉCOULANT

Publication

EP 2069724 A2 20090617 (EN)

Application

EP 07836448 A 20070801

Priority

- US 2007017290 W 20070801
- US 83501906 P 20060801

Abstract (en)

[origin: WO2008016697A2] In a method for monitoring a fluid flowing in a pipeline, a dynamic model of the flowing fluid is provided. At least one operational parameter forming part of the dynamic model is provided for measurement. At least one sonar-based sensor is coupled to the pipeline and is operable to measure the operational parameter. This sensor is also operable to generate signals indicative of the operational parameter. A controller is in communication with the sensor and is associated with the dynamic model. The controller receives the signals generated by the sensor, interprets and compares these signals to the dynamic model, and determines when the operational parameter has deviated from values corresponding to the operational parameter forming part of the dynamic model. The operational parameter can be a speed of sound of the fluid flowing in the pipeline, pressure, temperature, pump speed, flow rate, or the like.

IPC 8 full level

G01F 1/7082 (2022.01); **G01F 1/712** (2006.01); **G01M 3/28** (2006.01)

CPC (source: EP US)

G01F 1/666 (2013.01 - EP); **G01F 1/7082** (2013.01 - EP US); **G01M 3/243** (2013.01 - EP); **G01M 3/2807** (2013.01 - EP); **G01F 1/712** (2013.01 - EP US)

Citation (search report)

See references of WO 2008016697A2

Cited by

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Designated extension state (EPC)

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DOCDB simple family (application)

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