

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

CN112284515A

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

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**WO 2008016697 A2 20080207**; **WO 2008016697 A3 20080327**; EP 2069724 A2 20090617; NO 20090954 L 20090430

DOCDB simple family (application)

**US 2007017290 W 20070801**; EP 07836448 A 20070801; NO 20090954 A 20090302