

Title (en)  
CORIOLIS MASS FLOWMETER AND METHOD FOR OPERATING IT

Title (de)  
CORIOLIS-MASSENDURCHFLUSSMESSGERÄT UND VERFAHREN ZUM BETREIBEN EINES CORIOLIS-MASSENDURCHFLUSSMESSGERÄTS

Title (fr)  
DEBITMETRE MASSIQUE DU TYPE CORIOLIS ET PROCEDE POUR L'ACTIONNER

Publication  
**EP 2601489 A1 20130612 (DE)**

Application  
**EP 10739915 A 20100802**

Priority  
EP 2010061198 W 20100802

Abstract (en)  
[origin: WO2012016581A1] The invention relates to a Coriolis mass flowmeter and also to a method for operating a Coriolis mass flowmeter (1). The Coriolis mass flowmeter (1) comprises at least one measurement tube (2, 3) through which a medium flows, at least one exciter arrangement (8) which is arranged in the central region of the at least one measurement tube and causes said measurement tube to oscillate, and at least two oscillation pick-ups (9a, 9b) which are arranged in front of and behind the at least one exciter arrangement in the longitudinal direction of the at least one measurement tube. The at least two measurement tubes (2, 3) are additionally each provided with at least one acceleration sensor (15a...15d) which is arranged in front of and/or behind the exciter arrangement in the longitudinal direction of the at least one measurement tube. An evaluation device (11) is designed to receive acceleration signals (14a...14d) from the acceleration sensors and to evaluate said acceleration signals for the purpose of diagnosing an asymmetry in the measurement tubes. As a result, fault states, for example deposits in one of the two measurement tubes, blockage of a tube in a flow divider or asymmetrical changes in the ability of the measurement tubes to oscillate, for example due to cracks or fractures, can advantageously be detected.

IPC 8 full level  
**G01F 25/00** (2006.01); **G01F 1/84** (2006.01)

CPC (source: EP US)  
**G01F 1/8436** (2013.01 - EP US); **G01F 1/8477** (2013.01 - EP US); **G01F 25/10** (2022.01 - EP US)

Citation (search report)  
See references of WO 2012016581A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2012016581 A1 20120209**; CN 103052868 A 20130417; EP 2601489 A1 20130612; US 2013228003 A1 20130905

DOCDB simple family (application)  
**EP 2010061198 W 20100802**; CN 201080068414 A 20100802; EP 10739915 A 20100802; US 201013813600 A 20100802