

Title (en)

DEVICE FOR DETERMINING AND/OR MONITORING A VOLUME FLOW AND/OR A MASS FLOW

Title (de)

VORRICHTUNG ZUR BESTIMMUNG UND/ODER ÜBERWACHUNG DES VOLUMEN- UND/ ODER MASSENDURCHFLUSSES

Title (fr)

DISPOSITIF POUR DETERMINER ET/OU SURVEILLER UN DEBIT VOLUMIQUE ET/OU MASSIQUE

Publication

EP 1842036 A2 20071010 (DE)

Application

EP 05819249 A 20051216

Priority

- EP 2005056858 W 20051216
- DE 102005003398 A 20050124

Abstract (en)

[origin: WO2006076998A2] The invention relates to a device for determining and/or monitoring a volume flow and/or a mass flow of a measuring medium (9) that flows in one direction of flow through a meter tube (1) having a defined inner diameter. Said device comprises a plurality of ultrasound sensors (22) that emit and/or receive ultrasound measuring signals along differently defined measuring paths, and a control/evaluation unit (23) that uses the ultrasound measuring signals to determine the volume flow and/or mass flow of the measuring medium (9) in the conduit / in the meter tube (1) according to a sound propagation method or according to the echo principle. The invention is characterized in that at least two ultrasound sensors (22) emitting and/or receiving ultrasound measuring signals on different measuring paths are positioned in an opening (10) that is disposed in the wall of the meter tube (1).

IPC 8 full level

G01F 1/66 (2006.01)

CPC (source: EP US)

G01F 1/662 (2013.01 - EP US)

Citation (search report)

See references of WO 2006076998A2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2006076998 A2 20060727; WO 2006076998 A3 20061005; DE 102005003398 A1 20060803; EP 1842036 A2 20071010; US 2009095088 A1 20090416

DOCDB simple family (application)

EP 2005056858 W 20051216; DE 102005003398 A 20050124; EP 05819249 A 20051216; US 79589405 A 20051216