

Title (en)

MEASURING ELEMENT FOR DETERMINING A FLOW RATE

Title (de)

MESSELEMENT ZUR BESTIMMUNG EINER STRÖMUNGSGESCHWINDIGKEIT

Title (fr)

ELEMENT DE MESURE POUR DETERMINER UNE VITESSE D'ECOULEMENT

Publication

EP 1558899 A2 20050803 (DE)

Application

EP 03769222 A 20030926

Priority

- DE 0303221 W 20030926
- DE 10251701 A 20021106

Abstract (en)

[origin: WO2004042326A2] The measuring element (1) for determining a flow rate of a fluid (22) flowing around the measuring element (1) comprises a guide (4) for guiding an electromagnetic wave along the longitudinal extension thereof and comprises at least one electric heating element (5) that is placed adjacent to said guide (4). The guide (4) can be heated by the heating element (5). An electromagnetic wave, which can be launched into the guide (4), can be influenced according to the temperature of the guide (4) that is dependent on the flow rate of the fluid.

IPC 1-7

G01F 1/688

IPC 8 full level

G01F 1/688 (2006.01); **G01P 5/00** (2006.01); **G01P 5/10** (2006.01)

CPC (source: EP US)

G01F 1/688 (2013.01 - EP US); **G01F 1/6884** (2013.01 - EP US); **G01P 5/00** (2013.01 - EP US); **G01P 5/10** (2013.01 - EP US)

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

WO 2004042326 A2 20040521; **WO 2004042326 A3 20040916**; DE 10251701 A1 20040603; DE 10251701 B4 20060504; EP 1558899 A2 20050803; JP 2006504966 A 20060209; US 2006117844 A1 20060608; US 7302844 B2 20071204

DOCDB simple family (application)

DE 0303221 W 20030926; DE 10251701 A 20021106; EP 03769222 A 20030926; JP 2004549052 A 20030926; US 53411405 A 20050506