

Title (en)

VIBRATION-TYPE TRANSDUCER AND MEASUREMENT DEVICE COMPRISING SAID TRANSDUCER

Title (de)

MEßWANDLER VOM VIBRATIONSTYP SOWIE MESSGERÄT MIT EINEM SOLCHEN MESSWANDLER

Title (fr)

CONVERTISSEUR DE MESURE DE TYPE À VIBRATIONS AINSI QU APPAREIL DE MESURE DOTÉ D UN TEL CONVERTISSEUR DE MESURE

Publication

EP 2457066 A1 20120530 (DE)

Application

EP 10723630 A 20100622

Priority

- DE 102009028006 A 20090724
- EP 2010058797 W 20100622

Abstract (en)

[origin: US2011016990A1] A measuring transducer, comprises at least one measuring tube for conveying a flowing medium. The measuring tube vibrates at least at times during operation. The measuring transducer further comprises a sensor arrangement, which serves to register oscillations of the measuring tube. The measuring tube extends with an oscillatory length between an inlet-side, first measuring tube end and an outlet-side, second measuring tube end, and, during operation, oscillates about an oscillation axis, which is parallel to or coincides with an imagined connecting axis which imaginarily connects the two measuring tube ends. By means of a first oscillation sensor, which is arranged on the measuring tube, the sensor arrangement produces a first primary signal representing vibrations of the measuring tube, and by means of a second oscillation sensor, which is arranged on the measuring tube spaced from the first measuring sensor, the sensor arrangement produces a second primary signal representing vibrations of the measuring tube. The oscillation sensors of the sensor arrangement are placed in the measuring transducer in such a way that a measuring length of the measuring transducer corresponds to less than 65% especially less than 55% of the oscillatory length, and greater than 25%, especially greater than 30% of the oscillatory length.

IPC 8 full level

G01F 1/84 (2006.01)

CPC (source: EP US)

G01F 1/8427 (2013.01 - EP US); **G01F 1/8431** (2013.01 - EP US); **G01F 1/8472** (2013.01 - EP US); **G01F 1/8477** (2013.01 - EP US); **G01N 9/002** (2013.01 - EP US); **G01N 11/16** (2013.01 - EP US)

Citation (search report)

See references of WO 2011009683A1

Citation (examination)

- DE 69938581 T2 20090604 - OVAL CORP [JP]
- US 4938075 A 19900703 - LEW HYOK S [US]
- EP 1995572 A1 20081126 - OVAL CORP [JP]
- WO 2006122880 A1 20061123 - FLOWTEC AG [CH], et al
- WO 2006118557 A1 20061109 - MICRO MOTION INC [US], et al

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

US 80530410 A 20100723; CN 201080033155 A 20100622; DE 102009028006 A 20090724; EP 10723630 A 20100622; EP 2010058797 W 20100622