Title (en)

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

Title (de)

VORRICHTUNG ZUR BESTIMMUNG UND/ODER]BERWACHUNG DES VOLUMEN- UND/ ODER MASSEDURCHFLUSSES

Title (fr)

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

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2006063931A1] The invention relates to an ultrasonic flowmeter (9) for determining and/or monitoring the volumetric and/or mass flow of a measuring medium (5) through a pipe or a measuring tube (1). According to the invention, the wall of the pipe or measuring tube (1) comprises a deformation (4) or deformations in the vicinity of the defined sensor position of the ultrasonic sensor (7) and/or in the vicinity of the sonic path of the ultrasonic signals of the ultrasonic sensor(s) (7). Said deformation or deformations is/are configured and/or located in such a way that the flow speed of the measuring medium (5) that is measured in the sonic path, or in the case of several ultrasonic sensors (7) the flow speeds of the measuring medium (3) that are measured in the sonic paths and/or the cumulative flow speeds of the measuring medium at least approximately corresponds or correspond to the average flow speed of the measuring medium (3) that is calculated over the area of the pipe or measuring tube (1).

IPC 8 full level

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Citation (search report)

See references of WO 2006063931A1

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