

Title (en)
DEVICE AND METHOD FOR MEASURING MASS FLOW OF A NON-SOLID MEDIUM

Title (de)
EINRICHTUNG UND VERFAHREN ZUR MESSUNG DER MASSENSTRÖMUNG EINES NICHT FESTEN MEDIUMS

Title (fr)
DISPOSITIF ET PROCEDE PERMETTANT DE MESURER LE DEBIT MASSIQUE D'UN MILIEU NON SOLIDE

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Abstract (en)
[origin: WO02052230A1] The present invention relates to a device and a method for measuring mass flow of a nonsolid medium. The device comprises sensing elements arranged parallel to current rate of the medium and to each other and ensuring the flow of medium through the sensing elements, vibrators located on the sensing elements and exciting those at a given frequency in a transverse direction, and sensors detecting response of sensing elements due to excitation, wherein at least two sensing elements have a self-frequency equal to a first frequency value, at least two further sensing elements have a self-frequency equal to a second frequency value different from the first frequency value, the frequency of excitation is equal to one of the self-frequencies mentioned, and the sensors are response sensors for measuring motion quantity emerging as a result of the Coriolis reaction force and sensors for measuring mechanical impedance.

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