

Title (en)

METHOD FOR MEASURING THE FLOW VELOCITY OF A MEDIUM WHILE APPLYING A MAGNETIC FIELD TO THE MEASUREMENT VOLUME PUT THROUGH

Title (de)

VERFAHREN ZUR MESSUNG DER FLIESSGESCHWINDIGKEIT EINES MEDIUMS UNTER ANLEGEN EINES MAGNETFELDS AN DAS DURCHSETZTE MESSVOLUMEN

Title (fr)

PROCÉDÉ DE MESURE DE LA VITESSE D'ÉCOULEMENT D'UN MILIEU, AVEC APPLICATION D'UN CHAMP MAGNÉTIQUE AU VOLUME DE MESURE TRAVERSANT

Publication

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Application

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Abstract (en)

[origin: WO2008107460A1] The invention relates to a method for measuring the mean flow velocity of an electrically conductive medium while applying a magnetic field to the measurement volume put through and decoupling an electric signal induced in the measurement volume, wherein the fluctuating part of the electric signal, which is based on stochastic fluctuations of the flow velocity due to turbulent motion, is captured as a time-dependent wanted signal, and that by the weighted integration of the wanted signal the mean flow velocity over predefined time intervals is determined.

IPC 8 full level

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