

Title (en)

SENSOR ARRANGEMENT FOR DETECTING THE PHYSICAL PROPERTIES OF LIQUIDS

Title (de)

SENSORANORDNUNG ZUR ERMITTLUNG PHYSIKALISCHER EIGENSCHAFTEN VON FLÜSSIGKEITEN

Title (fr)

DISPOSITIF DETECTEUR PERMETTANT DE DETERMINER LES PROPRIETES PHYSIQUES DE FLUIDES

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Application

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Abstract (en)

[origin: DE19850799A1] The invention relates to sensor arrangement for detecting the physical parameters of liquids. Said arrangement comprises electroacoustic converters (3, 4) which produce and detect surface acoustic waves having predetermined wave modes. Based on the expansion behavior of these waves a measure for the physical properties of the liquid, especially for its viscosity, can be detected. The sensor arrangement is located on a substrate (1) on which conductor track structures are arranged in such a way that in addition to the electroacoustic converters (3, 4) for measuring viscosity an arrangement for measuring the electric conductivity (5), an arrangement for measuring the relative permittivity (7) and an arrangement for measuring the temperature (6) is configured.

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