

Title (en)

PRESSURE SENSOR HAVING AN INTERFEROMETRIC CONVERTER AND PRESSURE MEASURING DEVICE HAVING SUCH A PRESSURE SENSOR

Title (de)

DRUCKSENSOR MIT INTERFEROMETRISCHEM WANDLER UND DRUCKMESSGERÄT MIT EINEM SOLCHEN DRUCKSENSOR

Title (fr)

CAPTEUR DE PRESSION AVEC CONVERTISSEUR INTERFÉROMÉTRIQUE, ET APPAREIL DE MESURE DE LA PRESSION COMPORTANT UN TEL CAPTEUR DE PRESSION

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Application

EP 10727397 A 20100622

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Abstract (en)

[origin: WO2011003730A1] The invention related to a pressure sensor (1) comprising a ceramic main body (2), a measuring membrane (3), which contains Al₂O₃ and is joined to the main body along a peripheral joint (4) in a pressure-tight manner, at least one sensor interferometer, wherein the at least one sensor interferometer comprises at least one first reflection surface (5, 6) and a second reflection surface (6, 7) for creating a measurement variable-dependent path difference between the first and the second reflection surfaces. The measuring membrane (3) comprises at least one of the reflection surfaces (5, 6, 7), at least one light path (9), through which light can pass through the main body (2) to the first and second reflection surfaces and which runs substantially perpendicular to the first and the second reflection surfaces and perpendicular to the plane of the measuring membrane.

IPC 8 full level

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