Title (en)

PRESSURE SENSOR

Title (de)

DRUCKSENSOR

Title (fr)

DETECTEUR DE PRESSION

Publication

EP 1899699 A1 20080319 (DE)

Application

EP 05753196 A 20050620

Priority

EP 2005006629 W 20050620

Abstract (en)

[origin: WO2006136182A1] A pressure sensor has a multiplicity of piezoelectric converter elements which are arranged such that they are essentially parallel to a force-recording or pressure-recording direction. Said converter elements may be in the form of fibres, small bars, plates or the like and may also be in the form of a thick or thin layer. When the converter elements are in the form of fibres, small bars or plates, they are arranged at a distance from one another by means of an insulating material and/or are at least partially embedded in said material. In order to improve such a pressure sensor to the effect that it can also be used for high pressures, for a long service life and for different mechanical applications, a support material having greater mechanical rigidity than the converter elements, in particular in the force-recording or pressure-recording direction, is assigned to at least a number of piezoelectric converter elements or the piezoelectric converter element is applied, in the form of a layer, to a supporting body made from this support material and is electrically contact-connected, for example, by means of a bottom electrode, which is arranged between the converter element layer and the supporting body, and a cover electrode which is applied to an outer side of the converter element layer.

IPC 8 full level

G01L 1/16 (2006.01)

CPC (source: EP US)

A61B 5/1172 (2013.01 - EP US); **G01L 1/16** (2013.01 - EP US)

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