

Title (en)

COMBUSTION CHAMBER PIEZOELECTRIC PRESSURE SENSOR PROVIDED WITH A PRESSURE-TRANSMITTING PIN

Title (de)

PIEZOELEKTRISCHER BRENNRAUM-DRUCKSENSOR MIT EINEM DRUCKÜBERTRAGUNGSSTIFT

Title (fr)

CAPTEUR DE PRESSION PIEZO-ELECTRIQUE DE CHAMBRE DE COMBUSTION POURVU D'UNE BROCHE DE TRANSMISSION DE PRESSION

Publication

EP 1797407 A1 20070620 (DE)

Application

EP 05779167 A 20050819

Priority

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Abstract (en)

[origin: WO2006034928A1] The invention concerns a sensor (SE) consisting of single-crystal and piezoelectric material (1) for measuring pressure (6) in an internal combustion engine combustion chamber, comprising a pressure-transmitting pin. Said pressure-transmitting pin is in the form of a preheating pencil (4) slidably mounted and projecting into the combustion chamber and the sensor (SE) is force-closed to the preheating pencil (4). The sensor (SE) is preferably placed between the preheating pencil (4) and a fixed stop (5). The single-crystal piezoelectric material (1) of the sensor (SE) is advantageously lithium niobate (LiNbO₃)

IPC 8 full level

G01L 23/10 (2006.01); **F02P 19/02** (2006.01); **F23Q 7/00** (2006.01); **G01L 23/22** (2006.01)

CPC (source: EP KR US)

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Citation (search report)

See references of WO 2006034928A1

Citation (examination)

- JP H05172679 A 19930709 - NGK SPARK PLUG CO
- EP 0549346 A2 19930630 - NGK SPARK PLUG CO [JP]

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