

Title (en)

PRESSURE SENSOR FOR MEASUREMENTS IN A CHAMBER OF AN INTERNAL COMBUSTION ENGINE

Title (de)

DRUCKSENSOR FÜR MESSUNGEN IN EINER KAMMER EINER BRENNKRAFTMASCHINE

Title (fr)

CAPTEUR DE PRESSION POUR DES MESURES DANS UNE CHAMBRE D UN MOTEUR À COMBUSTION INTERNE

Publication

EP 2283334 A1 20110216 (DE)

Application

EP 09757026 A 20090512

Priority

- CH 2009000154 W 20090512
- CH 8562008 A 20080604

Abstract (en)

[origin: WO2009146565A1] The invention relates to a pressure sensor 1 for measurements in a chamber 29 of an internal combustion engine, in particular a pressure-measuring glowplug. This pressure sensor 1 comprises a housing 2, a pressure element 3 for picking up a pressure, and a measuring element 4 arranged in the housing 2 downstream of the pressure element 3 in the direction of the pressure and having a sensor element 5 and a diaphragm 7. This diaphragm is permanently connected at its first end 9 to the pressure element 3, and at its second end 10 it is directly or indirectly permanently connected to the housing 2 at a connection 19, with the pressure element 3 being supported on the measuring element 4 via the diaphragm 7.

IPC 8 full level

G01L 23/10 (2006.01); **G01L 23/22** (2006.01)

CPC (source: EP US)

F23Q 7/001 (2013.01 - EP); **G01L 23/10** (2013.01 - EP US); **G01L 23/22** (2013.01 - EP US); **F23Q 2007/002** (2013.01 - EP US)

Citation (search report)

See references of WO 2009146565A1

Citation (examination)

WO 2008068101 A1 20080612 - BOSCH GMBH ROBERT [DE], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

WO 2009146565 A1 20091210; EP 2283334 A1 20110216; JP 2011522263 A 20110728; US 2011088460 A1 20110421; US 8205490 B2 20120626

DOCDB simple family (application)

CH 2009000154 W 20090512; EP 09757026 A 20090512; JP 2011511953 A 20090512; US 99089909 A 20090512