

Title (en)  
SHEATHED-ELEMENT HEATER PLUG WITH INTEGRATED PRESSURE MEASURING ELEMENT

Title (de)  
GLÜHSTIFTKERZE MIT INTEGRIERTEM DRUCKMESSELEMENT

Title (fr)  
BOUGIE CRAYON DE PRECHAUFFAGE A ELEMENT MANOMETRIQUE INTEGRE

Publication  
**EP 1872057 A2 20080102 (DE)**

Application  
**EP 06708619 A 20060303**

Priority  
• EP 2006060421 W 20060303  
• DE 102005016463 A 20050411

Abstract (en)  
[origin: WO2006108738A2] A combustion-signal based control system requires a reliable, cost-effective option for detecting the pressure in the combustion chamber of compression-ignition internal combustion engines. The invention thus relates to a sheathed-element heater plug (110) comprising a heater plug module (112) and a pressure measuring module (114) that is connected to the heater plug module (112). The heater plug module (112) comprises a heating body (124) and a heater plug housing (118). The pressure measuring module (114) comprises at least one force measuring element (132) that is integrated into the pressure measuring module (114). The force measuring element(s) (132) is or are configured to generate an electric signal in accordance with a force (130). Said element or elements (132) is or are connected to the heating body (124), when the sheathed-element heater plug (110) is fitted, in such a way that a force (130) can be transferred to the force measuring element (132) or elements via said heating body (124).

IPC 8 full level  
**F23Q 7/00** (2006.01)

CPC (source: EP US)  
**F23Q 7/001** (2013.01 - EP US); **G01L 23/10** (2013.01 - EP US); **F02P 19/028** (2013.01 - EP US); **F23Q 2007/002** (2013.01 - EP US); **Y10T 29/49083** (2015.01 - EP US)

Citation (search report)  
See references of WO 2006108738A2

Citation (examination)  
• DE 10344080 B3 20050210 - BERU AG [DE]  
• FR 2849911 A1 20040716 - SIEMENS VDO AUTOMOTIVE [FR]

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**DE 102005016463 A1 20061012**; EP 1872057 A2 20080102; JP 2008537046 A 20080911; US 2010032423 A1 20100211; WO 2006108738 A2 20061019; WO 2006108738 A3 20061214

DOCDB simple family (application)  
**DE 102005016463 A 20050411**; EP 06708619 A 20060303; EP 2006060421 W 20060303; JP 2008505851 A 20060303; US 91838106 A 20060303