

Title (en)

Glow plug having combustion chamber pressure sensor

Title (de)

Glühkerze mit Brennraumdrucksensor

Title (fr)

Bougie de préchauffage dotée d'un capteur de pression de la chambre de combustion

Publication

EP 2072897 A1 20090624 (EN)

Application

EP 08172468 A 20081219

Priority

JP 2007326995 A 20071219

Abstract (en)

A glow plug (100) is provided having a combustion pressure sensor capable of detecting combustion pressure with high accuracy over a long period of time. A heater support member (10) for supporting a heater (20) has a movable or elastically deformable portion (12), which is located forward of a seat face (7); i.e. the movable or elastically deformable portion (12) is substantially exposed forward of a housing (1). The movable portion (12) has the function to allow axial displacement of the heater (20) through elastic deformation in response to combustion pressure applied to the pressure-receiving surface of a forward end of the heater (20).

IPC 8 full level

F23Q 7/00 (2006.01)

CPC (source: EP)

F23Q 7/001 (2013.01); **F02P 19/028** (2013.01); **F23Q 2007/002** (2013.01)

Citation (applicant)

DE 102004063750 A1 20060713 - BOSCH GMBH ROBERT [DE]

Citation (search report)

- [A] DE 102004063750 A1 20060713 - BOSCH GMBH ROBERT [DE]
- [A] US 7207214 B1 20070424 - WLODARCZYK MAREK T [US]
- [PA] US 2007289370 A1 20071220 - HIROSE YOSHINOBU [JP], et al

Cited by

US10253982B2

Designated contracting state (EPC)

DE FR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2072897 A1 20090624; EP 2072897 B1 20120411; JP 2009150570 A 20090709; JP 5047770 B2 20121010

DOCDB simple family (application)

EP 08172468 A 20081219; JP 2007326995 A 20071219