

Title (en)  
PENCIL TYPE GLOW PLUG WITH COMBUSTION CHAMBER PRESSURE SENSOR

Title (de)  
GLÜHSTIFTKERZE MIT BRENNRAUMDRUCKSENSOR

Title (fr)  
BOUGIE CRAYON DE PRECHAUFFAGE COMPRENANT UN CAPTEUR DE PRESSION DE CHAMBRE DE COMBUSTION

Publication  
**EP 1882170 A1 20080130 (DE)**

Application  
**EP 06724988 A 20060309**

Priority  
• EP 2006060579 W 20060309  
• DE 102005021229 A 20050509

Abstract (en)  
[origin: WO2006120049A1] A pencil type glow plug (110) for a self-igniting internal combustion engine and having an integrated combustion chamber pressure sensor is proposed for measuring pressures in the combustion chamber, in particular for an engine control system based on combustion chamber pressure signals. The pencil type glow plug (110) comprises a heating element (112) and a glow plug housing (114) as well as a glow plug axis (124). The glow plug housing (114) includes a zone (116) for receiving the heating element (112), a housing body (120) and at least one flexibility zone (118) arranged between the housing body (120) and the receiving zone (116). At least one force-measuring element (136) is arranged in the glow plug housing (114).

IPC 8 full level  
**G01L 23/22** (2006.01); **F23Q 7/00** (2006.01); **G01L 23/10** (2006.01)

CPC (source: EP US)  
**F23Q 7/001** (2013.01 - EP US); **G01L 23/22** (2013.01 - EP US); **F02P 19/028** (2013.01 - EP US); **F23Q 2007/002** (2013.01 - EP US)

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**DE 102005021229 A1 20061116**; EP 1882170 A1 20080130; JP 2008541075 A 20081120; US 2008264373 A1 20081030;  
WO 2006120049 A1 20061116

DOCDB simple family (application)  
**DE 102005021229 A 20050509**; EP 06724988 A 20060309; EP 2006060579 W 20060309; JP 2008510524 A 20060309;  
US 92001706 A 20060309