

Title (en)
Glow plug

Title (de)
Glühkerze

Title (fr)
Bougie de préchauffage

Publication
EP 2631542 A3 20171220 (EN)

Application
EP 13156421 A 20130222

Priority
JP 2012035757 A 20120222

Abstract (en)
[origin: EP2631542A2] [Objective] To more reliably prevent a deterioration of a seal member due to heat. [Means for Solution] A glow plug 1 includes a cylindrical housing 2, having an axial hole 7 extending in a direction of an axis CL1, which includes an external thread portion 8 for coming into threaded engagement with an internal thread portion FS provided on a mounting hole HO of an internal combustion engine EN; a ceramic heater 4 inserted in the axial hole 7 in a condition in which at least a leading end portion of the ceramic heater 4 protrudes from the leading end of the housing 2; and a center pole 3, having a bar shape extending in the direction of the axis CL1 and inserted into the axial hole 7, which forms an energizing path to the ceramic heater 4. An annular seal member 31 formed from an insulating material is disposed between the inner periphery of the housing 2 and the outer periphery of the center pole 3 within a range of formation of the external thread portion 8 along the axis CL1.

IPC 8 full level
F23Q 7/00 (2006.01)

CPC (source: EP KR)
F02P 19/00 (2013.01 - KR); **F23Q 7/00** (2013.01 - KR); **F23Q 7/001** (2013.01 - EP)

Citation (search report)

- [XY] FR 2845462 A1 20040409 - DENSO CORP [JP]
- [X] JP S4534016 Y1 19701225
- [X] EP 1455086 A1 20040908 - NGK SPARK PLUG CO [JP]
- [X] JP 2007032877 A 20070208 - NGK SPARK PLUG CO
- [X] US 4358663 A 19821109 - SPERNER FRANZ, et al
- [Y] EP 2088373 A1 20090812 - BOSCH GMBH ROBERT [DE]
- [Y] EP 1180645 A1 20020220 - NGK SPARK PLUG CO [JP]
- [Y] JP H0484863 U 19920723
- [A] EP 1026447 A2 20000809 - NGK SPARK PLUG CO [JP]

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2631542 A2 20130828; EP 2631542 A3 20171220; JP 2013170774 A 20130902; JP 5922946 B2 20160524; KR 101586878 B1 20160119; KR 20130096667 A 20130830

DOCDB simple family (application)
EP 13156421 A 20130222; JP 2012035757 A 20120222; KR 20130018510 A 20130221