

Title (en)
GLOW PLUG

Title (de)
GLÜHKERZE

Title (fr)
BOUGIE DE DÉPART

Publication
EP 3163173 A1 20170503 (EN)

Application
EP 16192085 A 20161003

Priority
JP 2015213785 A 20151030

Abstract (en)
To ensure oxidation resistance of a glow plug in a high temperature environment and simultaneously prevent a short circuit between a tube and a heat-generating coil in the high temperature environment. The glow plug includes: a tube having a closed forward end; a heat-generating coil that is disposed inside the tube, has a forward end electrically connected to the forward end of the tube, and generates heat when energized; and an insulating material that contains MgO as a main component and fills the space between the inner surface of the tube and the heat-generating coil. The tube is formed of an alloy containing Ni in an amount of 50% by weight or more, Cr in an amount of 18% by weight to 30% by weight, Al, and at least one component selected from Y and Zr. The amount of Al is 1% by weight or less, and the total amount of the at least one component selected from Y and Zr is 0.01% by weight to 0.3% by weight.

IPC 8 full level
F23Q 7/00 (2006.01)

CPC (source: EP)
F23Q 7/001 (2013.01)

Citation (search report)

- [XY] WO 2014206847 A1 20141231 - BOSCH GMBH ROBERT [DE]
- [XY] EP 2410243 A2 20120125 - NGK SPARK PLUG CO [JP]
- [Y] JP H06264169 A 19940920 - INKO AROISU LTD

Cited by
DE102018214719B4; DE102018214719A1

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 3163173 A1 20170503; JP 2017083103 A 20170518; JP 6661229 B2 20200311

DOCDB simple family (application)
EP 16192085 A 20161003; JP 2015213785 A 20151030