Title (en)

GLOW PLUG

Title (de)

GLÜHKERZE

Title (fr)

BOUGIE DE PRÉCHAUFFAGE

Publication

EP 3299719 A1 20180328 (EN)

Application

EP 17191171 A 20170914

Priority

JP 2016187459 A 20160926

Abstract (en)

[Object] To provide a glow plug including a sheath tube whose resistance to oxidation can be maintained by reducing the occurrence of cracks in a melted portion of the sheath tube when the sheath tube is formed of a specific material. [Solution] A glow plug 10 includes a sheath tube 810 and a heating coil 820. The sheath tube 810 is made of an alloy containing 50% or more by weight of Ni, 18 to 30% by weight of Cr, 1% or less by weight of Al, and 0.01 to 0.3% by weight of at least one component selected from Y and Zr. A main component of the heating coil 820 is tungsten (W) or molybdenum (Mo). A front end portion 822 of the heating coil 820 is embedded in a melted portion 816 of the sheath tube 810 and is not exposed at an outer surface of the sheath tube 810. When a is a maximum value of a length of the melted portion 816 in an axial line direction OD and b is a maximum value of a length of the melted portion 816 in a direction perpendicular to the axial line direction OD, 0.46 #p a/b is satisfied.

IPC 8 full level

F23Q 7/00 (2006.01)

CPC (source: EP)

F23Q 7/001 (2013.01)

Citation (applicant)

JP 2016148506 A 20160818 - NGK SPARK PLUG CO

Citation (search report)

- [A] JP 2015078784 A 20150423 NGK SPARK PLUG CO
- [A] EP 2863126 A1 20150422 NGK SPARK PLUG CO [JP]
- [A] JP 2016075468 A 20160512 NGK SPARK PLUG CO
- [A] JP 2012057820 A 20120322 NGK SPARK PLUG CO

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 3299719 A1 20180328; EP 3299719 B1 20181031; JP 2018054160 A 20180405; JP 6781599 B2 20201104

DOCDB simple family (application)

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