Title (en)

GLOW PLUG

Title (de)

Glühkerze

Title (fr)

Bougie d'incandescence

Publication

EP 2889541 A1 20150701 (EN)

Application

EP 14191900 A 20141105

Priority

- JP 2013237001 A 20131115
- JP 2014180916 A 20140905

Abstract (en)

A glow plug (10) comprising: a heat-generating element (820) formed of an iron-based alloy; a sheath tube (810) formed of a nickel-based alloy, disposed around the heat-generating element (820) and extending in an axial line (O) direction; a fusion zone (850) formed through welding of the sheath tube (810) and the heat-generating element (820), and closing a forward end of the sheath tube (810), wherein in a cross section including the axial line (O), the fusion zone (850) has an iron content of 20 mass% to 60 mass% at a measurement point of maximum iron content in a region having a depth of 0.5 mm or less from an outer surface of the fusion zone (850). The measurement point is determined through EPMA analysis (WDS: wavelength-dispersive X-ray spectrometer) of the region at an acceleration voltage of 20 kV, a probe current of 2.5 x 10-8 A, a beam irradiation diameter of 10 μm, and a measurement interval of 10 μm.

IPC 8 full level

F23Q 7/00 (2006.01)

CPC (source: EP)

F23Q 7/001 (2013.01)

Citation (search report)

- [I] JP 2009156560 A 20090716 - NGK SPARK PLUG CO
- [A] JP 2009158431 A 20090716 - 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 2889541 A1 20150701; **EP 2889541 B1 20180523**

DOCDB simple family (application)

EP 14191900 A 20141105