

Title (en)

ELECTRICALLY HEATABLE GLOW PLUG AND METHOD FOR PRODUCING SAID ELECTRICALLY HEATABLE GLOW PLUG

Title (de)

ELEKTRISCH BEHEIZBARE GLÜHKERZE UND VERFAHREN ZUR HERSTELLUNG EINER ELEKTRISCH BEHEIZBAREN GLÜHKERZE

Title (fr)

BOUGIE DE PRECHAUFFAGE ELECTRIQUE ET PROCEDE DE FABRICATION DE CELLE-CI

Publication

EP 1440280 B1 20071219 (DE)

Application

EP 02758098 A 20020716

Priority

- DE 0202596 W 20020716
- DE 10152175 A 20011023
- DE 10157466 A 20011123

Abstract (en)

[origin: WO03038340A1] The invention relates to an electrically heatable glow plug (1) and a method for producing said electrically heatable glow plug (1), which allow protection of the glow plug filament (10) of the glow plug (1) from nitridation and aluminum evaporation from the heat conducting alloy. The glow plug (1) comprises an ignition tube (5), closed on the ends, into which the electroconductive glow plug filament (10) is introduced. Said glow plug filament (10) is at least partially composed of aluminum, especially of an aluminum/iron/chromium alloy. Inside the ignition tube (5), oxygen donors are disposed that form an aluminum oxide layer on the surface of the glow plug filament (10) before or while the glow plug filament (10) is heated.

IPC 8 full level

F23Q 7/00 (2006.01); **F23Q 7/22** (2006.01)

CPC (source: EP US)

F23Q 7/001 (2013.01 - EP US); **F23Q 2007/004** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

WO 03038340 A1 20030508; AT E381701 T1 20080115; DE 50211415 D1 20080131; EP 1440280 A1 20040728; EP 1440280 B1 20071219; HU P0302081 A2 20030929; HU P0302081 A3 20051028; JP 2005507068 A 20050310; JP 4076162 B2 20080416; PL 361797 A1 20041004; TW 539805 B 20030701; US 2004084436 A1 20040506; US 6930283 B2 20050816

DOCDB simple family (application)

DE 0202596 W 20020716; AT 02758098 T 20020716; DE 50211415 T 20020716; EP 02758098 A 20020716; HU P0302081 A 20020716; JP 2003540572 A 20020716; PL 36179702 A 20020716; TW 91123802 A 20021016; US 45177203 A 20031120