

Title (en)

ELECTRICALLY HEATABLE GLOW PLUG OR GLOW ROD FOR COMBUSTION ENGINES

Title (de)

ELEKTRISCH BEHEIZBARE GLÜHKERZE ODER GLÜHSTAB FÜR VERBRENNUNGSMOTOREN

Title (fr)

BOUGIE DE PRECHAUFFAGE, POUVANT ETRE CHAUFFEE ELECTRIQUEMENT, OU CRAYON DE PRECHAUFFAGE POUR MOTEURS A COMBUSTION INTERNE

Publication

EP 1188023 B1 20040623 (DE)

Application

EP 00925294 A 20000519

Priority

- DE 19928037 A 19990618
- EP 0004521 W 20000519

Abstract (en)

[origin: DE19928037C1] The invention relates to an electrically heatable glow plug or glow rod for internal combustion engines. Said plug has a corrosion-resistant glow tube that is closed on the end thereof, in which a filling material consisting of electrically non-conductive compacted powder is contained and in which an electrically conductive spiral is embedded. In order to improve the service life of the heating spiral in said glow plug or the glow rod, the electrically conductive spiral is hardened, especially nitride hardened by means of diffusion treatment, at least in part of the longitudinal extension thereof, preferably in the surface area of the heating spiral. This makes it possible for the spiral to withstand mechanical strains without any degradation during the compression process.

IPC 1-7

F23Q 7/00

IPC 8 full level

F23Q 7/00 (2006.01); **H05B 3/12** (2006.01); **H05B 3/18** (2006.01); **H05B 3/48** (2006.01)

CPC (source: EP)

F23Q 7/001 (2013.01)

Designated contracting state (EPC)

FR GB IT

DOCDB simple family (publication)

DE 19928037 C1 20000525; EP 1188023 A1 20020320; EP 1188023 B1 20040623; JP 2003502613 A 20030121; JP 3618092 B2 20050209; WO 0079185 A1 20001228

DOCDB simple family (application)

DE 19928037 A 19990618; EP 0004521 W 20000519; EP 00925294 A 20000519; JP 2001505506 A 20000519