

Title (en)
CERAMIC SHEATHED ELEMENT GLOW PLUG

Title (de)
KERAMISCHE GLÜHSTIFTKERZE

Title (fr)
BOUGIE CRAYON DE PRECHAUFFAGE EN CERAMIQUE

Publication
EP 1214551 B2 20100908 (DE)

Application
EP 00960314 A 20000725

Priority
• DE 0002418 W 20000725
• DE 19940668 A 19990827
• DE 10020329 A 20000426

Abstract (en)
[origin: US6660970B1] A ceramic sheathed-type glow plug, whose ceramic heating element is made of an electrically conductive conducting layer and an electrically insulating layer, is described. The conducting layer is made of lead layers and a heating layer. The higher specific electrical resistance of the heating layer allows the temperature of the heating layer and the combustion chamber to be determined. The electrical contact between a connector element and the heating element is established by a contacting element, which is in the form of a pellet made of an electrically conductive powder.

IPC 8 full level
F23Q 7/00 (2006.01)

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

Citation (opposition)
Opponent :
• JP S63297923 A 19881205 - HITACHI METALS LTD, et al
• JP H04268112 A 19920924 - JIDOSHA KIKI CO

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated extension state (EPC)
SI

DOCDB simple family (publication)
US 6660970 B1 20031209; AT E280928 T1 20041115; CZ 2002629 A3 20021016; CZ 300980 B6 20090930; EP 1214551 A1 20020619; EP 1214551 B1 20041027; EP 1214551 B2 20100908; ES 2231250 T3 20050516; HU P0202789 A2 20030128; JP 2003508712 A 20030304; PL 195123 B1 20070831; PL 353309 A1 20031117; WO 0116528 A1 20010308

DOCDB simple family (application)
US 6989802 A 20020627; AT 00960314 T 20000725; CZ 2002629 A 20000725; DE 0002418 W 20000725; EP 00960314 A 20000725; ES 00960314 T 20000725; HU P0202789 A 20000725; JP 2001520043 A 20000725; PL 35330900 A 20000725