

Title (en)
Glow plug

Title (de)
Glühkerze

Title (fr)
Bougie à incandescence

Publication
EP 1471307 A1 20041027 (EN)

Application
EP 04252379 A 20040423

Priority
• JP 2003118961 A 20030423
• JP 2004010149 A 20040119

Abstract (en)
A rod-like insulator (14) is disposed within a metallic tube (2) to form a clearance between the insulator and metallic tube. A coil member (5) encircles the outer circumferential surface of insulator. Insulating powder (15), which fills interior of material tube, is charged into the metallic tube. The insulator is formed of insulating material with thermal conductivity lower than the insulating powder.

IPC 1-7
F23Q 7/00

IPC 8 full level
F23Q 7/00 (2006.01)

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

Citation (search report)
• [A] GB 859659 A 19610125 - BOSCH GMBH ROBERT
• [A] US 4476378 A 19841009 - TAKIZAWA TOZO [JP], et al
• [A] PATENT ABSTRACTS OF JAPAN vol. 0061, no. 34 (M - 144) 21 July 1982 (1982-07-21)

Cited by
EP1717515A1; EP2116772A4; EP2840314A4; US9702556B2; WO2006114436A1; DE102014225908A1; WO2016096257A1

Designated contracting state (EPC)
DE FR

DOCDB simple family (publication)
EP 1471307 A1 20041027; EP 1471307 B1 20070221; DE 602004004827 D1 20070405; DE 602004004827 T2 20071031;
JP 2004340562 A 20041202; US 2004222207 A1 20041111

DOCDB simple family (application)
EP 04252379 A 20040423; DE 602004004827 T 20040423; JP 2004010149 A 20040119; US 82816904 A 20040421