

Title (en)
GLOW PLUG

Title (de)
GLÜHKERZE

Title (fr)
BOUGIE DE PRÉCHAUFFAGE

Publication
EP 3358257 A1 20180808 (EN)

Application
EP 18151698 A 20180115

Priority
JP 2017018307 A 20170203

Abstract (en)
To provide a glow plug capable of restraining a temperature drop in the event of lowering applied voltage for saturating temperature, while ensuring durability and provision of higher heating-up temperature. A rearward coil connected to the rear end of a forward coil containing W or Mo as a main component has a resistance ratio R1 lower than a resistance ratio R2 of the forward coil, where the resistance ratio R1 is the ratio of the resistance of the rearward coil at 1,000°C to the resistance of the rearward coil at 20°C, and the resistance ratio R2 is the ratio of the resistance of the forward coil at 1,000°C to the resistance of the forward coil at 20°C. A tube has a tube forward portion ranging from the forward end of the tube to a position around the axial center of the forward coil and a tube rearward portion ranging from a position around the rear end of the rearward coil to a position around the forward end of the rearward coil. The wall thickness A of the tube forward portion is 0.5 mm or more; the wall thickness B of the tube rearward portion is 0.3 mm or more; and the minimal wall thickness B1 of the tube rearward portion is smaller than the wall thickness A of the tube forward portion.

IPC 8 full level
F23Q 7/00 (2006.01)

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

Citation (applicant)
WO 2014206847 A1 20141231 - BOSCH GMBH ROBERT [DE]

Citation (search report)
• [A] US 2014361005 A1 20141211 - KASAHARA KEISUKE [JP]
• [A] EP 2312907 A1 20110420 - NGK SPARK PLUG CO [JP]
• [A] EP 2045526 A2 20090408 - NGK SPARK PLUG CO [JP]
• [AP] EP 3163172 A1 20170503 - NGK SPARK PLUG CO [JP]

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 3358257 A1 20180808; EP 3358257 B1 20191120; JP 2018124030 A 20180809; JP 6996848 B2 20220117

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