

Title (en)
GLOW PLUG

Title (de)
GLÜHKERZE

Title (fr)
BOUGIE DE PRÉCHAUFFAGE

Publication
EP 3267109 A1 20180110 (EN)

Application
EP 17177193 A 20170621

Priority
• JP 2016132254 A 20160704
• JP 2016208798 A 20161025

Abstract (en)
[Objective] To mitigate force transmitted between a center rod and a ceramic heater. [Means for Solution] Aglow plug includes a metallic shell, a ceramic heater, and a center rod. The center rod includes one or more neck portions which extend in the direction of the axial line and in which a plurality of grooves each extending on the outer circumferential surface of the center rod in the circumferential direction thereof are successively arranged in the direction of the axial line. The forwardmost neck portion has a portion disposed forward of the middle position in the direction of the axial line between the forward and rear ends of the center rod. In the forwardmost neck portion, the plurality of grooves are arranged in the direction of the axial line at a pitch of less than 1.1 mm. On a flat cross section containing the axial line, each groove has a forward sloping surface which slopes forward to be oblique to the direction of the axial line and a rear sloping surface which slopes rearward to be oblique to the direction of the axial line. In the forwardmost neck portion, the forward sloping surface and the rear sloping surface form an angle of less than 60°.

IPC 8 full level
F23Q 7/00 (2006.01)

CPC (source: EP)
F23Q 7/001 (2013.01); **F23Q 2007/004** (2013.01)

Citation (applicant)
• JP 2006207988 A 20060810 - NGK SPARK PLUG CO
• JP 2002359060 A 20021213 - NGK SPARK PLUG CO
• US 4252091 A 19810224 - STEINKE LEO
• JP 2014109434 A 20140612 - BOSCH GMBH ROBERT
• JP 2015078825 A 20150423 - NGK SPARK PLUG CO

Citation (search report)
• [AD] JP 2014109434 A 20140612 - BOSCH GMBH ROBERT & DE 102013222388 A1 20140618 - BOSCH GMBH ROBERT [DE]
• [AD] JP 2015078825 A 20150423 - NGK SPARK PLUG CO & EP 2863127 A1 20150422 - NGK SPARK PLUG CO [JP]
• [A] EP 2944877 A1 20151118 - BOSCH GMBH ROBERT [DE]

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

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