

Title (en)
GLOW PLUG

Title (de)
GLÜHKERZE

Title (fr)
BOUGIE DE PRÉCHAUFFAGE

Publication
EP 3208539 A1 20170823 (EN)

Application
EP 17153358 A 20170126

Priority
JP 2016027107 A 20160216

Abstract (en)
[Objective] To provide a glow plug capable of facilitating transfer of heat from a heating element to a tube. [Means for Solution] A heating element is electrically connected to a front end of a metal center rod, and a metal tube having a closed front end houses the heating element and a front side of the center rod. The heating element is electrically connected to the tube. Insulating powder is filled in the tube. In a volume-based particle size distribution measured by a laser diffraction method, a particle group in the insulating powder, which is disposed at a position corresponding to the heating element, has at least one maximum value of frequency of 6% or greater in a range of particle sizes of 12 µm or greater, and the particle group has only frequencies of 2.5 to 6% in a range of particle sizes of 4 to 8 µm.

IPC 8 full level
F23Q 7/00 (2006.01)

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

Citation (applicant)
• JP S6321706 A 19880129 - SHIN NIHON KAGAKU KOGYO KK
• JP H0218560 B2 19900425

Citation (search report)
• [A] US 2004222207 A1 20041111 - KUMADA CHIAKI [JP]
• [A] US 2012319556 A1 20121220 - SUZUKI AKIRA [JP], et al
• [A] US 5877474 A 19990302 - KONISHI MASAHIRO [JP]
• [A] JP S59215690 A 19841205 - TATEHO KAGAKU KOGYO KK

Cited by
EP3453963A1

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 3208539 A1 20170823; EP 3208539 B1 20180516; JP 2017145990 A 20170824; JP 6592372 B2 20191016

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EP 17153358 A 20170126; JP 2016027107 A 20160216