

Title (en)

METHOD FOR MANUFACTURING CERAMIC-HEATER-TYPE GLOW PLUG, AND CERAMIC-HEATER-TYPE GLOW PLUG

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER KERAMIKSTRAHLERARTIGEN GLÜHKERZE UND KERAMIKSTRAHLERARTIGE GLÜHKERZE

Title (fr)

PROCÉDÉ DE FABRICATION DE BOUGIE DE PRÉCHAUFFAGE DU TYPE À ÉLÉMENT CHAUFFANT EN CÉRAMIQUE ET BOUGIE DE PRÉCHAUFFAGE DU TYPE À ÉLÉMENT CHAUFFANT EN CÉRAMIQUE

Publication

**EP 3135998 A4 20170927 (EN)**

Application

**EP 15783414 A 20150403**

Priority

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- JP 2015060546 W 20150403

Abstract (en)

[origin: EP3135998A1] To simplify a structure and a manufacturing process of a ceramic heater-type glow plug so as to cut manufacturing cost. A manufacturing method of a ceramic heater-type glow plug (1) including: a ceramic heater (11); and a metallic outer cylinder (12), one end of which holds the ceramic heater and the other end of which is fixed to a housing (14) has: a step of forming a metallized layer (116) on at least a portion of a surface region in the ceramic heater that is held by the outer cylinder (12); a step of press-inserting at least the metallized layer of the ceramic heater in the outer cylinder; and a step of heating the ceramic heater and the outer cylinder at a temperature at which a material for forming the metallized layer becomes a semi-molten state and performing joining by mass transfer between the outer cylinder and a solid layer of the metallized layer.

IPC 8 full level

**F23Q 7/00** (2006.01)

CPC (source: EP US)

**F23Q 7/00** (2013.01 - US); **F23Q 7/001** (2013.01 - EP US); **F23Q 2007/004** (2013.01 - EP US)

Citation (search report)

- [A] US 2010006557 A1 20100114 - MARUYAMA TAKAHIRO [JP]
- [A] US 2005104496 A1 20050519 - ANDO IKUYA [JP]
- [A] US 2011240625 A1 20111006 - TAKENOUCHI HIROSHI [JP]
- See references of WO 2015163112A1

Designated contracting state (EPC)

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