

Title (en)

Glow plug and method for connecting a pin made of ceramic with a metal casing

Title (de)

Glühkerze und Verfahren zum Verbinden eines Stifts aus einer Funktionskeramik mit einer Metallhülse

Title (fr)

Bougie de préchauffage destinée à relier une pointe en céramique avec une enveloppe métallique

Publication

EP 2306089 A3 20120118 (DE)

Application

EP 10008411 A 20100812

Priority

DE 102009048643 A 20090930

Abstract (en)

[origin: EP2306089A2] The plug has a housing (1) arranged in a metallic inner conductor (4), a metal sleeve (6) extending into the housing, and a ceramic glow pencil (5) arranged in the metal sleeve. Front- and rear ends of the glow pencil extends from the metal sleeve, where the rear end of the glow pencil is connected to the inner conductor. The glow pencil is pressed in the metal sleeve, and the metal sleeve includes a tapered portion provided at a rear end of the metal sleeve. The tapered portion surrounds a tapered portion of the glow pencil. An independent claim is also included for a method for connecting a ceramic glow pencil with a metal sleeve.

IPC 8 full level

F23Q 7/00 (2006.01); **H05B 3/14** (2006.01)

CPC (source: EP KR US)

F02P 19/00 (2013.01 - KR); **F23Q 7/001** (2013.01 - EP KR US); **H05B 3/141** (2013.01 - EP US); **Y10T 29/49083** (2015.01 - EP US)

Citation (search report)

- [I] DE 102006016566 A1 20070329 - BERU AG [DE]
- [A] EP 0903541 A2 19990324 - DENSO CORP [JP]
- [A] WO 2005061962 A1 20050707 - BOSCH AUTOMOTIVE SYSTEMS CORP [JP], et al
- [A] JP 2002364847 A 20021218 - NGK SPARK PLUG CO
- [A] JP S5822 A 19830105 - NGK SPARK PLUG CO

Cited by

EP3064834A4; WO2014206845A1

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 SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

EP 2306089 A2 20110406; **EP 2306089 A3 20120118**; DE 102009048643 A1 20110331; DE 102009048643 B4 20131128; KR 101674368 B1 20161122; KR 20110035958 A 20110406; RU 2010139807 A 20120410; US 2012043309 A1 20120223; US 8471180 B2 20130625

DOCDB simple family (application)

EP 10008411 A 20100812; DE 102009048643 A 20090930; KR 20100094198 A 20100929; RU 2010139807 A 20100929; US 87348210 A 20100901