

Title (en)

Process for producing ceramic glow plugs

Title (de)

Verfahren zum Herstellen von keramischen Glühkerzen

Title (fr)

Procédé de fabrication de bougies de préchauffage en céramique

Publication

**EP 1533571 A3 20080102 (DE)**

Application

**EP 04023484 A 20041001**

Priority

DE 10353972 A 20031119

Abstract (en)

[origin: EP1533571A2] A process for producing a ceramic glow plug which has more than two layers, comprises forming the layers by coextrusion. The layers are symmetric to the plug axis, are coaxial, and consist of a conducting layer and/or a layer, which is perpendicular to the plug axis . The layers are applied by spraying, pressing or dipping. The layers are sintered and are then thermally sprayed and ground. A mantle is applied by spraying, pressing or dipping. The plug consists of an inner cylinder (1), an insulating layer (2), the coaxial conducting layer (3) and a heating layer (4).

IPC 8 full level

**B28B 3/20** (2006.01); **F23Q 7/00** (2006.01); **F23Q 7/22** (2006.01)

CPC (source: EP KR US)

**B28B 3/20** (2013.01 - KR); **F23Q 7/001** (2013.01 - EP US); **F23Q 2007/004** (2013.01 - EP US)

Citation (search report)

- [Y] US 6335516 B1 20020101 - MUELLER HELMUT [DE], et al
- [Y] WO 9522722 A1 19950824 - MORGAN MATROC S A [ES], et al
- [E] EP 1536180 A1 20050601 - BERU AG [DE]
- [A] US 6396028 B1 20020528 - RADMACHER STEPHEN J [CA]
- [A] FR 1534467 A 19680726 - TEXAS INSTRUMENTS INC

Cited by

EP2668011A4; EP1846695A4; DE102005024623A1; DE102005024623B4; WO2010003727A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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