

Title (en)
HEATER AND GLOW PLUG PROVIDED WITH SAME

Title (de)
HEIZUNG UND GLÜHSTIFT DAMIT

Title (fr)
ÉLÉMENT CHAUFFANT ET BOUGIE À INCANDESCENCE LE COMPORTANT

Publication
EP 2704518 A4 20141022 (EN)

Application
EP 12776164 A 20120427

Priority
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• JP 2012061373 W 20120427

Abstract (en)
[origin: EP2704518A1] [Object] To provide a highly-reliable and durable heater in which occurrence of concentration of great stress on an end portion of a junction between a resistor and a lead is suppressed even when a high current flows through the resistor in quick temperature rise or the like, and a glow plug provided with the same. [Solution] A heater (1) includes: a resistor (3) including a heat-generating portion (4); a lead (8) joined to an end portion of the resistor (3); and an insulating base (9) covering the resistor (3) and the lead (8). At a junction between the resistor (3) and the lead (8), the lead (8) has a shape thicker than the resistor (3) and is connected to the resistor (3) such that the end portion of the resistor (3) is inserted into a front end portion of the lead (8), a recess is provided on an end surface of the resistor (3), and a portion of the lead (8) is inserted into the recess.

IPC 8 full level
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CPC (source: EP KR US)
F23Q 7/00 (2013.01 - KR); **F23Q 7/001** (2013.01 - EP US); **F23Q 7/22** (2013.01 - KR); **H05B 3/12** (2013.01 - EP US);
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H05B 2203/027 (2013.01 - EP US)

Citation (search report)
• [X] JP 2000130754 A 20000512 - NGK SPARK PLUG CO
• [X] EP 2117280 A1 20091111 - KYOCERA CORP [JP]
• See references of WO 2012147919A1

Designated contracting state (EPC)
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JP 5766282 B2 20150819; JP WO2012147919 A1 20140728; KR 101504631 B1 20150320; KR 20130137675 A 20131217;
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