Title (en)

Glow plug and method for producing same

Title (de)

Glühkerze und Verfahren zum Herstellung derselben

Title (fr)

Bougie à incandescence et son procédé de fabrication

Publication

**EP 1055878 A2 20001129 (EN)**

Application

**EP 00110503 A 20000517**

Priority

- JP 14881099 A 19990527
- JP 2000056057 A 20000228

Abstract (en)

In a glow plug 1, a resistor 4, 5 wound in a spiral shape is inserted into a hollow heater tube 3 while the winding axis M coincides with a longitudinal axis of the heater tube, and is held therein via an insulating powder 30, wherein the resistor 4, 5 is energized with a current to generate heat. A first point t1 and a second point t2 are determined on the resistor 4, 5 so that a spiral pitch P is defined between the both. A third point t3 is defined at a position on the resistor 4, 5 between the first point t1 and the second point t2 so that the third point t3 is distant from the first point t1 and near the second point t2 at half a length of the resistor 4, 5 between the first point t1 and the second point t2 along the resistor. The resistor 4, 5 is tilted relative to the winding axis M so that a distance Q between the third point t3 and the first point t1 measured in the direction of the winding axis M is 0.75 times the spiral pitch P or more wherein the distance Q is the maximum value relative to the spiral pitch (P) as the tube turns 180 degrees on the winding axis M. <IMAGE>

IPC 1-7

**F23Q 7/00**

IPC 8 full level

**F23Q 7/00** (2006.01)

CPC (source: EP)

**F23Q 7/001** (2013.01); F23Q 2007/004 (2013.01)

Citation (applicant)

JP H09217933 A 19970819 - JIDOSHA KIKI CO

Cited by

EP2840313A4; WO03052323A1

Designated contracting state (EPC)

DE FR GB

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**EP 1055878 A2 20001129**; **EP 1055878 A3 20050302**; **EP 1055878 B1 20071003**; DE 60036575 D1 20071115; DE 60036575 T2 20080626; JP 2001041452 A 20010213; JP 4092845 B2 20080528

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**EP 00110503 A 20000517**; DE 60036575 T 20000517; JP 2000056057 A 20000228