

Title (en)

Ionic current measuring glow-plug and a circuit for driving the same

Title (de)

Ionenstrommessglühkerze und Verfahren und Schaltung zu ihrer Ansteuerung

Title (fr)

Bougie à incandescence de mesure de courant ionique et circuit pour la commander

Publication

**EP 1072790 A3 20021204 (DE)**

Application

**EP 00112156 A 20000606**

Priority

DE 19935025 A 19990726

Abstract (en)

[origin: EP1072790A2] The device has a heating element arranged in a glow tube on the combustion chamber side, whereby the glow tube is mounted in a plug housing and insulated from it. The plug housing is electrically connected to the engine block (earth). A diode (15) is integrated between the glow plug body (4) and the series circuit containing the glow tube and heating element in the connector area of the plug or a modular diode is used. An Independent claim is also included for a controller and for an arrangement for producing a glow discharge and/or for ion current measurement.

IPC 1-7

**F02P 17/12**; F23Q 7/00; F02P 19/02

IPC 8 full level

**F02P 13/00** (2006.01); **B65D 19/00** (2006.01); **F02P 17/12** (2006.01); **F02P 19/02** (2006.01); **F23Q 7/00** (2006.01)

CPC (source: EP KR US)

**F02P 17/12** (2013.01 - EP US); **F02P 19/02** (2013.01 - KR); **F02P 19/028** (2013.01 - EP US)

Citation (search report)

- [XP] DE 19852485 A1 20000525 - BERU AG [DE]
- [XP] DE 19842148 A1 20000406 - BERU AG [DE]
- [A] US 5893993 A 19990413 - KURANO ATSUSHI [JP]
- [A] W.BEITS: "Doppel Taschenbuch für den Maschinenbau. 17th ed.", SPRINGER-VERLAG, BERLIN, XP002215704

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 1072790 A2 20010131**; **EP 1072790 A3 20021204**; **EP 1072790 B1 20041110**; AT E282146 T1 20041115; DE 19935025 A1 20010208; DE 19935025 C2 20010523; DE 50008572 D1 20041216; ES 2226657 T3 20050401; JP 2001050146 A 20010223; JP 4587533 B2 20101124; KR 100690501 B1 20070309; KR 20010015307 A 20010226; US 6549013 B1 20030415

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