

Title (en)  
GLOW PLUG

Publication  
**EP 0189086 A3 19870204 (DE)**

Application  
**EP 86100372 A 19860113**

Priority  
DE 3502525 A 19850125

Abstract (en)  
[origin: ES8701358A1] In a glow element with a glow tube (30) closed at the outer end, in which there at least two series-connected resistors (10, 11), whereby one of the at least two resistors being conductively connected by one end to the closed end of the glow tube and the opposite end of the series-connected resistors being connected to an internal pole (9) projecting into the glow tube from the other end thereof, in order to permit an external wiring of part of the resistors in the glow element, the internal pole (9) has a tubular construction and at least one electrical conductor (8) is passed through the internal pole and is connected to a junction (12) of the at least two resistors (10, 11). Furthermore, the at least two resistors comprise a heating resistor (11) electrically connected to the closed end (14) of the glow tube (30) and a variable resistor (10) with a positive temperature coefficient electrically connected between the internal pole (9) and the heating resistor (11), and wherein a further variable resistor (R3) with a positive temperature coefficient is arranged externally of the glow element and is electrically connected to the electric conductor (8) parallel to the variable resistor (10) of the series-connected resistors.

IPC 1-7  
**F23Q 7/00**

IPC 8 full level  
**F02P 19/02** (2006.01); **F23Q 7/00** (2006.01)

CPC (source: EP US)  
**F02P 19/025** (2013.01 - EP US); **F23Q 7/001** (2013.01 - EP US)

Citation (search report)

- [X] GB 2084649 A 19820415 - CHAMPION SPARK PLUG CO
- [E] DE 3429262 A1 19860220 - BERU WERK RUPRECHT GMBH CO A [DE]
- [AD] DE 2802625 A1 19790726 - BERU WERK RUPRECHT GMBH CO A
- [AP] DE 3334038 A1 19850411 - WEBASTO WERK BAIER KG W [DE]
- [X] PATENTS ABSTRACTS OF JAPAN, Band 8, Nr. 57 (M-283)[1494], 15. März 1984; & JP-A-58 210 412 (NIPPON TOKUSHU TOGYO K.K.) 07-12 1983

Cited by  
EP0392180A1; EP0351883A3

Designated contracting state (EPC)  
FR GB IT SE

DOCDB simple family (publication)  
**EP 0189086 A2 19860730; EP 0189086 A3 19870204; EP 0189086 B1 19900912**; DE 3502525 A1 19860731; DE 3502525 C2 19931111; ES 551237 A0 19861201; ES 8701358 A1 19861201; JP S61173023 A 19860804; US 4733053 A 19880322

DOCDB simple family (application)  
**EP 86100372 A 19860113**; DE 3502525 A 19850125; ES 551237 A 19860124; JP 1029986 A 19860122; US 82287586 A 19860127