

Title (en)

SPARK PLUG COMPRISING A GROUND ELECTRODE SUPPORT

Title (de)

ZÜNDKERZE MIT MASSELEKTRODENTRÄGER

Title (fr)

BOUGIE D'ALLUMAGE A SUPPORT POUR ELECTRODE DE MASSE

Publication

**EP 2208268 A1 20100721 (DE)**

Application

**EP 08846605 A 20081024**

Priority

- AT 2008000389 W 20081024
- AT 17752007 A 20071105

Abstract (en)

[origin: WO2009059339A1] The invention relates to a spark plug of an internal combustion engine, especially for use in Otto gas engines. Said spark plug comprises, supported by an insulating body (1), a preferably one-piece spark plug shell (2) and a center electrode (3), which is especially rod-shaped or has a plurality of electrode fingers, and at least one ground electrode (4), preferably a plurality of ground electrodes, the center electrode (3) and the at least one ground electrode (4) being surrounded by a chamber, especially a pre-chamber (5a) or a swirl chamber (5b) supported by the spark plug shell (2), or being located inside said chamber (5a, 5b). The invention is characterized in that the ground electrode(s) (4) has/have a support (6) secured to the spark plug shell (2) or arranged thereon as the base, or branch(es) off therefrom, and in that said ground electrode support (6) and every finger-type ground electrode (4) branching off therefrom is arranged at a distance (21) from the inner wall surface (7) of the chamber (5a, 5b).

IPC 8 full level

**H01T 13/54** (2006.01); **H01T 13/46** (2006.01)

CPC (source: EP US)

**H01T 13/467** (2013.01 - EP US); **H01T 13/54** (2013.01 - EP US)

Cited by

DE102014117714A1; US9564740B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**WO 2009059339 A1 20090514**; AT 506140 A1 20090615; AT 506140 B1 20091115; AT E509400 T1 20110515; AU 2008324739 A1 20090514; AU 2008324739 B2 20120830; BR PI0820495 A2 20150616; BR PI0820495 B1 20181009; CA 2704609 A1 20090514; CA 2704609 C 20160712; DK 2208268 T3 20110905; EP 2208268 A1 20100721; EP 2208268 B1 20110511; ES 2366009 T3 20111014; PT 2208268 E 20110825; US 2011089803 A1 20110421; US 8143772 B2 20120327

DOCDB simple family (application)

**AT 2008000389 W 20081024**; AT 08846605 T 20081024; AT 17752007 A 20071105; AU 2008324739 A 20081024; BR PI0820495 A 20081024; CA 2704609 A 20081024; DK 08846605 T 20081024; EP 08846605 A 20081024; ES 08846605 T 20081024; PT 08846605 T 20081024; US 74070208 A 20081024