

Title (en)

SPARK PLUG FOR AN INTERNAL COMBUSTION ENGINE AND METHOD FOR PRODUCING A SPARK PLUG

Title (de)

ZÜNDKERZE FÜR EINEN VERBRENNUNGSMOTOR UND VERFAHREN ZUR HERSTELLUNG EINER ZÜNDKERZE

Title (fr)

BOUGIE D'ALLUMAGE D'UN MOTEUR A COMBUSTION INTERNE ET PROCEDE DE PRODUCTION D'UNE BOUGIE D'ALLUMAGE

Publication

**EP 1305858 B1 20050323 (DE)**

Application

**EP 01947128 A 20010504**

Priority

- DE 0101703 W 20010504
- DE 10036008 A 20000725

Abstract (en)

[origin: WO0209247A1] The invention relates to a spark plug for an internal combustion engine, comprising a housing (12), an insulator (16), which is situated in said housing and which consists of a sintered ceramic material, and a centre electrode (18) and a connecting bolt (22) which are electroconductively interconnected and which are situated in the insulator. The aim of the invention is to improve the seal between the insulator and the centre electrode. To this end, a cermet whose ceramic phase consists of the same or a similar material to the insulator and whose metallic phase consists of a material with good electroconductivity adjoins the centre electrode. The cermet has similar properties to the insulator, especially the same thermal expansion, which results in a particularly good seal between the cermet and the insulator body.

IPC 1-7

**H01T 13/34**

IPC 8 full level

**H01T 13/20** (2006.01); **H01T 13/34** (2006.01); **H01T 13/39** (2006.01); **H01T 21/02** (2006.01)

CPC (source: EP US)

**H01T 13/34** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**WO 0209247 A1 20020131**; DE 10036008 A1 20020207; DE 50105708 D1 20050428; EP 1305858 A1 20030502; EP 1305858 B1 20050323; JP 2004505419 A 20040219; US 2003020388 A1 20030130; US 6794802 B2 20040921

DOCDB simple family (application)

**DE 0101703 W 20010504**; DE 10036008 A 20000725; DE 50105708 T 20010504; EP 01947128 A 20010504; JP 2002514850 A 20010504; US 8861902 A 20020719