

Title (en)

LASER IGNITION PLUG WITH AN AIR FLOW DEVICE EFFECTING THE MIXTURE FLOW AND IMPROVING THE IGNITION

Title (de)

LASERZÜNDKERZE MIT VORRICHTUNG ZUR BEEINFLUSSUNG DER STRÖMUNG DES LUFT-KRAFTSTOFF-GEMISCHES UND ZUR VERBESSERUNG DER ENTFLAMMUNG

Title (fr)

DISPOSITIF D'ALLUMAGE À LASER AVEC UNE PAROI POUR INFLUENCER LA CIRCULATION DU MÉLANGE AIR-CARBURANT ET AMÉLIORER L'ALLUMAGE

Publication

**EP 2304321 A1 20110406 (DE)**

Application

**EP 09780577 A 20090714**

Priority

- EP 2009059002 W 20090714
- DE 102008040429 A 20080715

Abstract (en)

[origin: WO2010007066A1] Laser spark plug (100), in particular for an internal combustion engine with means (110) for injecting, in particular for focusing laser radiation (120) on an ignition point (ZP) with means (130) arranged in an end region (100a) of the laser spark plug (100) facing a combustion chamber, for influencing a fluid flow., presenting an essentially shell-like projection of the laser spark plug (100) in the direction facing the combustion chamber, characterise in that the means (130) for influencing the fluid flow are designed th influence the fluid flow in the region of the ignition point (ZP).

IPC 8 full level

**F02P 23/04** (2006.01); **F02P 13/00** (2006.01); **F02P 15/08** (2006.01); **F23Q 13/00** (2006.01)

CPC (source: EP US)

**F02P 13/00** (2013.01 - EP US); **F02P 15/08** (2013.01 - EP US); **F02P 23/04** (2013.01 - EP US); **F23Q 13/00** (2013.01 - EP US)

Citation (search report)

See references of WO 2010007066A1

Citation (examination)

- JP S5659982 U 19810522
- EP 2072803 A2 20090624 - GE JENBACHER GMBH & CO OHG [AT]
- DE 102006015600 A1 20071011 - UFERMANN RUEDIGER [DE]

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 MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**WO 2010007066 A1 20100121**; DE 102008040429 A1 20100128; EP 2304321 A1 20110406; US 2011185996 A1 20110804; US 9133813 B2 20150915; WO 2010007067 A1 20100121

DOCDB simple family (application)

**EP 2009059002 W 20090714**; DE 102008040429 A 20080715; EP 09780577 A 20090714; EP 2009059004 W 20090714; US 200913054417 A 20090714