

Title (en)

LASER-INDUCED SPARK IGNITION UNIT FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

LASERINDUZIERTE FREMDZÜNDUNG FÜR EINE BRENNKRAFTMASCHINE

Title (fr)

ALLUMAGE INDUIT PAR LASER POUR MOTEUR A COMBUSTION INTERNE

Publication

**EP 2577040 A1 20130410 (DE)**

Application

**EP 11711518 A 20110325**

Priority

- DE 102010029347 A 20100527
- EP 2011054614 W 20110325

Abstract (en)

[origin: WO2011147607A1] Laser spark plug for an internal combustion engine (10), comprising at least one means (26) for directing, forming and/or producing laser radiation (24), further comprising a combustion chamber window (58) and a housing (38), characterized in that the housing (38), on the side of the combustion chamber window (58) opposite the means (26), especially at a combustion chamber end (381) of the housing (38), comprises an orifice (74) allowing the passage of the laser radiation (24) that is directed, formed and/or produced by the means (26) to a combustion chamber (14), the length (L) of the orifice (74) being 4 mm or more, especially 6 mm or more.

IPC 8 full level

**F02P 23/04** (2006.01)

CPC (source: EP US)

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

Citation (search report)

See references of WO 2011147607A1

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DOCDB simple family (publication)

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