

Title (en)

LASER SPARK PLUG FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

LASERZÜNDKERZE FÜR BRENNKRAFTMASCHINE

Title (fr)

BOUGIE D'ALLUMAGE PAR LASER POUR MOTEUR À COMBUSTION INTERNE

Publication

**EP 2454469 A2 20120523 (DE)**

Application

**EP 10770947 A 20100927**

Priority

- AT 2010000351 W 20100927
- AT 15792009 A 20091007

Abstract (en)

[origin: WO2011041807A2] The invention relates to a laser spark plug, comprising a laser light-producing device (2) and a spark plug housing (1) at the end of which facing the combustion chamber an injection lens (10) for injecting laser light into the combustion chamber (30) of an internal combustion engine is arranged, the spark plug housing (1) comprising a fastening zone (7) for fastening the laser spark plug in a cylinder head (17) of the internal combustion engine. A projection (31) on the end of the spark plug housing (1) facing the combustion chamber houses the injection lens (10), the outer diameter (D1) of the projection (31) being smaller in the area of the injection lens (10) than the outer diameter (D2) of the spark plug housing (1) in the fastening zone (7).

IPC 8 full level

**F02P 23/04** (2006.01)

CPC (source: EP US)

**F02P 23/04** (2013.01 - EP US)

Citation (search report)

See references of WO 2011041807A2

Designated contracting state (EPC)

AL 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

DOCDB simple family (publication)

**WO 2011041807 A2 20110414; WO 2011041807 A3 20110623**; AT 508983 A1 20110515; AT 508983 B1 20121215; EP 2454469 A2 20120523; US 2012210969 A1 20120823; US 8826876 B2 20140909

DOCDB simple family (application)

**AT 2010000351 W 20100927**; AT 15792009 A 20091007; EP 10770947 A 20100927; US 201213425571 A 20120321