

Title (en)
Laser ignition device for a combustion engine

Title (de)
Laserzündvorrichtung für eine Brennkraftmaschine

Title (fr)
Dispositif d'allumage à laser pour moteur à combustion

Publication
EP 1887218 A3 20110427 (DE)

Application
EP 07015487 A 20070807

Priority
AT 13342006 A 20060809

Abstract (en)
[origin: EP1887218A2] Laser ignition device for an internal combustion engine comprises a laser light-generating device (3) for introducing laser light at a maximum intensity of 0.15 mJ/mm² or a minimum intensity of 3 mJ/mm² into a combustion chamber. The intensity is attained on a side of a clean combustion chamber window (7~) facing the combustion chamber. An independent claim is also included for an internal combustion engine comprising the above laser ignition device. Preferred Features: The laser light-generating device introduces pulsed laser light (5) with a pulse duration of 0.1-20, preferably 0.5-10 ns into the combustion chamber. The intensity is an average intensity determined over the time of the pulse duration.

IPC 8 full level
F02P 23/04 (2006.01)

CPC (source: EP US)
F02P 23/04 (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1887218 A2 20080213; EP 1887218 A3 20110427; AT 504012 A1 20080215; AT 504012 B1 20090415; US 2008035088 A1 20080214

DOCDB simple family (application)
EP 07015487 A 20070807; AT 13342006 A 20060809; US 88915507 A 20070809