

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/mm<sup>2</sup> or a minimum intensity of 3 mJ/mm<sup>2</sup> 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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