

Title (en)

INTERNAL COMBUSTION ENGINE AND METHOD FOR OPERATING AN INTERNAL COMBUSTION ENGINE BY MEANS OF A LASER-IGNITION UNIT

Title (de)

BRENNKRAFTMASCHINE SOWIE VERFAHREN ZUM BETREIBEN EINER BRENNKRAFTMASCHINE MITTELS LASERZÜNDEINRICHTUNG

Title (fr)

MOTEUR A COMBUSTION INTERNE ET PROCEDE D'UTILISATION D'UN MOTEUR A COMBUSTION INTERNE PAR L'INTERMEDIAIRE D'UN DISPOSITIF D'ALLUMAGE LASER

Publication

EP 1957780 A1 20080820 (DE)

Application

EP 06793830 A 20060926

Priority

- EP 2006066747 W 20060926
- DE 102005056520 A 20051128

Abstract (en)

[origin: DE102005056520A1] Method involves a fuel-injection unit (25) and a laser ignition-unit (26). During compression cycle of the internal combustion engine (20), fuel is injected into combustion chamber (29) by fuel-injection unit in such a way that an ignitable, round, flat mixed region (28) of fuel and air forms on plunger (21) and a predetermined period elapses between the end of the fuel injection and the start of ignition in order to form the round flat mixed region. Ignition then takes place within the flat round mixed region by means of the laser-ignition unit. An independent claim is included for the internal combustion engine.

IPC 8 full level

F02D 41/30 (2006.01); **F02P 23/04** (2006.01)

CPC (source: EP KR US)

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