

Title (en)

METHOD FOR OPERATING A COMBUSTION ENGINE

Title (de)

VERFAHREN ZUM BETRIEB EINER BRENNKRAFTMASCHINE

Title (fr)

PROCEDE D'EXPLOITATION D'UN MOTEUR A COMBUSTION INTERNE

Publication

**EP 1671022 A1 20060621 (DE)**

Application

**EP 04764785 A 20040903**

Priority

- EP 2004009830 W 20040903
- DE 10344423 A 20030925

Abstract (en)

[origin: DE10344423A1] The method involves injecting fuel directly into a combustion chamber with an injection nozzle, whereby some fuel is injected as a pre-injection during a working cycle and the rest as a main injection at a later time and a homogeneous pre-mixture is formed for the pre-injection, with which a homogeneous combustion phase is initiated in the form of a low-temperature phase and a high-temperature phase. The self-ignition of a main injection event occurs after the start and before the end of the high-temperature phase of the pre-injection event.

IPC 1-7

**F02B 75/00**; F02B 1/12; F02D 41/04

IPC 8 full level

**F02B 1/12** (2006.01); **F02B 75/00** (2006.01); **F02D 41/30** (2006.01); **F02D 41/40** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP US)

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Citation (search report)

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