

Title (en)

Autoignition engine with combustion chambers for high pressure ignition

Title (de)

Selbstzündende Brennkraftmaschine mit Brennräumen für hohe Zünddrücke

Title (fr)

Moteur à combustion éà autoallumage avec chambres de combustion pour allumage à haute pression

Publication

EP 1775455 B1 20150729 (DE)

Application

EP 06019137 A 20060913

Priority

DE 102005048566 A 20051011

Abstract (en)

[origin: EP1775455A2] The engine has a combustion chamber (1) with a control and operating module. A cylinder bore is disposed in a crankcase (5) of the engine. A separate cooled plate is formed between the chamber and a cylinder head (14). The plate is connected with the crank case and a cylinder liner in a form-fit and gas tight manner. A valve seat for inlet and outlet valves is arranged in the plate and an injection valve extends through the plate.

IPC 8 full level

F02F 1/16 (2006.01); **F02F 1/40** (2006.01); **F01P 3/14** (2006.01)

CPC (source: EP US)

F02F 1/16 (2013.01 - EP US); **F02F 1/40** (2013.01 - EP US); **F01P 3/14** (2013.01 - EP US); **F02F 2001/249** (2013.01 - EP US)

Citation (examination)

DE 4420130 C1 19951116 - MTU FRIEDRICHSHAFEN GMBH [DE]

Cited by

DE102010020877A1; DE102010020877B4

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1775455 A2 20070418; EP 1775455 A3 20130130; EP 1775455 B1 20150729; CN 1948739 A 20070418; CN 1948739 B 20100512; DE 102005048566 A1 20070412; PL 1775455 T3 20151231; RU 2006135855 A 20080420; RU 2405949 C2 20101210; US 2007079776 A1 20070412; US 7533648 B2 20090519

DOCDB simple family (application)

EP 06019137 A 20060913; CN 200610136210 A 20061011; DE 102005048566 A 20051011; PL 06019137 T 20060913; RU 2006135855 A 20061010; US 54622506 A 20061011