

Title (en)
DIRECT INJECTION TWO-STROKE ENGINE

Title (de)
ZWEITAKTMOTOR MIT DIREKTER EINSPRITZUNG

Title (fr)
MOTEUR DEUX TEMPS A INJECTION DIRECTE

Publication
EP 1706612 A1 20061004 (FR)

Application
EP 04817611 A 20041228

Priority
• FR 2004003400 W 20041228
• FR 0315612 A 20031231

Abstract (en)
[origin: FR2864578A1] The engine has an injector (20) for spraying a fuel jet into a combustion chamber along a spraying axis (P), where the jet is diffused at an angle between 15 and 75 degrees. The fuel injection starts when a crankshaft (3) is situated at an angle lying between 20 and 45 degrees before closure of an exhaust port (9). The injection pressure and orientation of the axis are determined based on gas circulation in the chamber. The injection pressure and orientation of the spraying axis are determined to obtain an air/fuel mixture appreciably stoichiometric in the region of a spark plug (11) during ignition.

IPC 8 full level
F02B 3/02 (2006.01); **F02B 23/10** (2006.01); **F02B 25/14** (2006.01); **F02B 25/20** (2006.01); **F02B 27/06** (2006.01); **F02B 75/02** (2006.01); **F02B 75/12** (2006.01)

CPC (source: EP US)
F02B 23/104 (2013.01 - EP US); **F02B 25/14** (2013.01 - EP US); **F02B 25/20** (2013.01 - EP US); **F02B 27/06** (2013.01 - EP US); **F02B 23/101** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)
See references of WO 2005073533A1

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
FR 2864578 A1 20050701; **FR 2864578 B1 20060324**; BR PI0417886 A 20070427; CN 100489282 C 20090520; CN 1902387 A 20070124; EP 1706612 A1 20061004; US 2009139485 A1 20090604; WO 2005073533 A1 20050811

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