

Title (en)  
DIRECT-INJECTION INTERNAL COMBUSTION ENGINE

Title (de)  
VERBRENNUNGSMOTOR MIT DIREKTEINSPRITZUNG

Title (fr)  
MOTEUR A COMBUSTION INTERNE A INJECTION DIRECTE.

Publication  
**EP 1714023 A1 20061025 (FR)**

Application  
**EP 05726421 A 20050211**

Priority  
• FR 2005050088 W 20050211  
• FR 0401473 A 20040213

Abstract (en)  
[origin: FR2866393A1] The engine has housing with a cylindrical bore (3), a cylinder head (4), a piston (5) provided in a cylinder (2) and a fuel injector (18) controlled by a control unit for injecting fuel into two separate sheets. The piston has a cavity for cooperating with the sheets when the piston reaches top dead center. The cavity is shaped such that the sheets do not interfere with each other, when fuel is simultaneously injected in the sheets.

IPC 8 full level  
**F02B 23/06** (2006.01); **F02M 45/08** (2006.01); **F02M 61/18** (2006.01); **F02M 61/20** (2006.01)

CPC (source: EP)  
**F02B 23/0696** (2013.01); **F02M 45/086** (2013.01); **F02M 61/182** (2013.01); **Y02T 10/12** (2013.01)

Citation (search report)  
See references of WO 2005078270A1

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 2866393 A1 20050819; FR 2866393 B1 20080229; EP 1714023 A1 20061025; WO 2005078270 A1 20050825**

DOCDB simple family (application)  
**FR 0401473 A 20040213; EP 05726421 A 20050211; FR 2005050088 W 20050211**