

Title (en)

Two-cycle internal combustion engine

Title (de)

Zweitaktbrennkraftmaschine

Title (fr)

Moteur à combustion à deux temps

Publication

EP 1022448 B1 20041020 (EN)

Application

EP 00101454 A 20000125

Priority

JP 1569399 A 19990125

Abstract (en)

[origin: EP1022448A2] The invention provides a two-cycle internal combustion engine which can realize scavenging by air, prevent blow-by of a fuel mixture in a scavenging stroke, and prevent combustion of a lubricating oil in a combustion chamber to thereby purify an exhaust gas. To achieve this, a two-cycle internal combustion engine 1 includes a compressor section (20) for performing a compression stroke in concert with a scavenging stroke by a piston (7) reciprocating in a cylinder (8). A fuel mixture from a carburetor (17) is pressurized to be supplied to a combustion chamber (12) by the compressor section (20). On the other hand, a scavenging air is also pressurized to be supplied to the cylinder (8) from its side wall by the compressor section (20). An oil pump (60) driven by a crankshaft (3) is provided to pump up a lubricating oil stored in a bottom portion of a crankcase, thereby lubricating the crankshaft with the lubricating oil supplied from the oil pump. <IMAGE>

IPC 1-7

F02B 75/02; **F02F 1/24**; **F02B 33/20**; **F02B 25/04**

IPC 8 full level

F02B 33/02 (2006.01); **F01M 3/00** (2006.01); **F02F 1/24** (2006.01); **F02F 1/38** (2006.01); **F02B 1/04** (2006.01); **F02B 75/02** (2006.01)

CPC (source: EP)

F02F 1/24 (2013.01); **F02F 1/38** (2013.01); **F02B 1/04** (2013.01); **F02B 2075/025** (2013.01); **F02F 2001/245** (2013.01)

Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

EP 1022448 A2 20000726; **EP 1022448 A3 20010704**; **EP 1022448 B1 20041020**; AU 1355500 A 20000727; AU 752366 B2 20020919; DE 60014978 D1 20041125; DE 60014978 T2 20050310; JP 2000213357 A 20000802

DOCDB simple family (application)

EP 00101454 A 20000125; AU 1355500 A 20000125; DE 60014978 T 20000125; JP 1569399 A 19990125