

Title (en)  
Handheld type four-cycle engine

Title (de)  
Tragbarer Viertaktmotor

Title (fr)  
Moteur à quatre temps portable

Publication  
**EP 1134366 B1 20040414 (EN)**

Application  
**EP 01106280 A 20010314**

Priority  

- JP 2000076407 A 20000314
- JP 2000076408 A 20000314
- JP 2000079307 A 20000316
- JP 2000079308 A 20000316
- JP 2000076406 A 20000314

Abstract (en)  
[origin: EP1134366A1] With regard to a handheld type four-cycle engine including, in a side wall of a cylinder block, an intake valve, an exhaust valve and a valve operation mechanism operable in association with a crankshaft so as to open and close the above-mentioned valves and, an oil tank is formed in one side wall of the cylinder block, and the oil tank houses the valve operation mechanism and oil mist generation means for generating an oil mist from stored oil. It is thus possible to reliably lubricate the valve operation mechanism regardless of the operational position of the engine while allowing the size and weight of the engine main body to be reduced. <IMAGE>

IPC 1-7  
**F01M 1/04**; **F02B 63/02**; **F01M 9/06**; **F01M 11/06**

IPC 8 full level  
**F01M 1/04** (2006.01); **F01M 9/06** (2006.01); **F01M 11/06** (2006.01); **F02B 63/02** (2006.01); **F02B 67/06** (2006.01); **F02B 75/16** (2006.01); **F02F 1/06** (2006.01); **F02F 1/30** (2006.01); **F02B 75/02** (2006.01)

CPC (source: EP)  
**F01M 1/04** (2013.01); **F01M 9/06** (2013.01); **F01M 11/065** (2013.01); **F02B 63/02** (2013.01); **F02B 67/06** (2013.01); **F02B 75/16** (2013.01); **F02F 1/06** (2013.01); **F02F 1/305** (2013.01); **F02B 2075/027** (2013.01); **F02B 2275/22** (2013.01); **F02B 2275/30** (2013.01); **F02B 2275/34** (2013.01)

Cited by  
CN1318739C; US7080620B2; WO03064825A1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 1134366 A1 20010919**; **EP 1134366 B1 20040414**; DE 60102734 D1 20040519; DE 60102734 T2 20050421

DOCDB simple family (application)  
**EP 01106280 A 20010314**; DE 60102734 T 20010314