

Title (en)  
Internal combustion engine.

Title (de)  
Brennkraftmaschine.

Title (fr)  
Moteur à combustion interne.

Publication  
**EP 0661418 A1 19950705 (EN)**

Application  
**EP 94120849 A 19941228**

Priority  
JP 33688193 A 19931228

Abstract (en)  
The present invention relates to an internal combustion engine of the four-cycle type comprising a cylinder block with at least one cylinder bore defined therein, a piston reciprocating in said cylinder bore, a crankshaft rotatably journaled and driven by said piston, a cylinder head (15) affixed to said cylinder block (14) through a plurality of head bolts (50,51), an exhaust passage arrangement (33) and an intake passage arrangement (32) with a plurality of exhaust valves (31) and at least three intake valves (31) supported in said cylinder head, said exhaust valves and said intake valves being actuated by an exhaust camshaft (23) and an intake camshaft (22), respectively, and at least one of said head bolts being disposed on the intake side of the cylinder head laterally outwards with respect to the intake camshaft. The engine is improved in that the camshafts are driven from said crankshaft via an intermediate reduction gear unit (19,20,21). <IMAGE>

IPC 1-7  
**F01L 1/26**; **F02F 1/24**; **F02F 1/42**; **F01L 1/02**; **F01L 1/04**

IPC 8 full level  
**F02B 67/06** (2006.01); **F01L 1/02** (2006.01); **F01L 1/04** (2006.01); **F01L 1/053** (2006.01); **F01L 1/26** (2006.01); **F02F 1/10** (2006.01); **F02F 1/24** (2006.01); **F02F 1/42** (2006.01); **F02B 1/04** (2006.01); **F02B 75/02** (2006.01); **F02B 77/00** (2006.01); **F02F 7/00** (2006.01)

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**F01L 1/02** (2013.01); **F01L 1/022** (2013.01); **F01L 1/024** (2013.01); **F01L 1/0532** (2013.01); **F01L 1/265** (2013.01); **F02F 1/108** (2013.01); **F02F 1/242** (2013.01); **F02F 1/4221** (2013.01); **F01L 2001/0537** (2013.01); **F02B 1/04** (2013.01); **F02B 67/06** (2013.01); **F02B 77/005** (2013.01); **F02B 2075/027** (2013.01); **F02B 2275/02** (2013.01); **F02B 2275/08** (2013.01); **F02B 2275/18** (2013.01); **F02F 7/006** (2013.01); **F02F 2001/245** (2013.01); **F02F 2007/0063** (2013.01)

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