

Title (en)

Valve system for OHV-type four-cylinder internal combustion engine

Title (de)

Ventiltriebsystem in einem Vierzylinder Brennkraftmaschine mit obenliegenden Ventilen

Title (fr)

Distribution pour moteur 4 cylindres à soupapes en tête

Publication

EP 1207274 A3 20030319 (EN)

Application

EP 01121464 A 20010907

Priority

JP 2000349705 A 20001116

Abstract (en)

[origin: EP1207274A2] Problem: In a valve system for OHV-type horizontal opposed type four-cycle internal combustion engine, to contrive large reduction of the weight and size of piston heads at which intake and exhaust valves of the internal combustion engine are disposed. Means of Solution: Valve camshafts (26i, 26e) are provided at crankcase portions (2L, 2R) for supporting a crankshaft(1), of left and right cylinder banks(CB1, CB2) disposed on opposite sides of the crankshaft(1). Intake and exhaust valves (14, 15)provided at cylinder heads (4L, 4R) are opened and closed by pull rods (20i, 20e) operated by the valve camshafts (26i, 26e). <IMAGE>

IPC 1-7

F01L 1/04; **F01L 1/14**; **F01L 1/18**; **F01L 1/02**; **F01L 1/26**; **F01L 1/12**; **F02B 75/22**; **F02B 75/24**

IPC 8 full level

F01L 1/04 (2006.01); **F01L 1/047** (2006.01); **F01L 1/14** (2006.01); **F01L 1/18** (2006.01); **F01L 1/26** (2006.01); **F02B 75/24** (2006.01); **F02B 75/02** (2006.01); **F02B 75/18** (2006.01)

CPC (source: EP)

F01L 1/026 (2013.01); **F01L 1/04** (2013.01); **F01L 1/047** (2013.01); **F01L 1/14** (2013.01); **F01L 1/146** (2013.01); **F01L 1/18** (2013.01); **F01L 1/185** (2013.01); **F01L 1/26** (2013.01); **F02B 75/243** (2013.01); **F01L 2305/00** (2020.05); **F02B 2075/027** (2013.01); **F02B 2075/1816** (2013.01)

Citation (search report)

- [XY] US 1524150 A 19250127 - RHOADS HARRY E
- [Y] GB 138803 A 19200219 - HERBERT WOODGATE, et al
- [A] DE 4001514 A1 19900802 - FUJI HEAVY IND LTD [JP]
- [A] GB 2342394 A 20000412 - HONDA MOTOR CO LTD [JP]
- [A] CH 260172 A 19490228 - JULIEN MAURICE FRANCOIS ALEXAN [FR]
- [A] US 1725672 A 19290820 - PEGLAR RICHARD A

Cited by

EP1318277A3; DE102004035025B4; FR2858012A1; US6883485B2; US7069898B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1207274 A2 20020522; **EP 1207274 A3 20030319**; **EP 1207274 B1 20050223**; AT E289653 T1 20050315; CA 2360399 A1 20020516; DE 60109010 D1 20050331; DE 60109010 T2 20050714

DOCDB simple family (application)

EP 01121464 A 20010907; AT 01121464 T 20010907; CA 2360399 A 20011029; DE 60109010 T 20010907