

Title (en)
Overhead cam engine

Title (de)
Brennkraftmaschine mit obenliegender Nockenwelle

Title (fr)
Moteur à arbre à cames en tête

Publication
EP 1460238 A2 20040922 (EN)

Application
EP 04100944 A 20040309

Priority
JP 2003073060 A 20030318

Abstract (en)
To compact a combustion chamber and downsize a cylinder head (16F) in an overhead cam engine, wherein a cam shaft (131) is provided between intake and exhaust valve springs (129, 130) and is rotatably supported by the cylinder head (16F); and wherein the cam shaft (131) is provided with a first cam (142) to drive one of an intake valve (127) and an exhaust valve (128) and is provided with a second cam (143) to drive the other of the intake valve (127) and the exhaust valve (128). <??>A cylinder head (16F) supports a cam shaft (131) with its axis line approximately disposed above a cylinder axis line. A second cam (143) is disposed between intake and exhaust valve springs (129, 130) and is formed to be smaller than a first cam (142). The first cam (142) is disposed farther from the position between the intake and exhaust valve springs (129, 130) along the direction of the axis line of the cam shaft (131). <IMAGE>

IPC 1-7
F01L 1/053; F02F 1/38

IPC 8 full level
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CPC (source: EP)
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Cited by
US8512181B2; EP1507076A3; EP1895112A4; EP3239510A4; CN108798815A

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EP 1460238 A2 20040922; EP 1460238 A3 20050824; EP 1460238 B1 20080206; CN 1317488 C 20070523; CN 1530521 A 20040922; ES 2301934 T3 20080701; JP 2004278447 A 20041007; JP 4025667 B2 20071226; TW 200424424 A 20041116; TW I240040 B 20050921

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