

Title (en)

Variable volume internal combustion engine.

Title (de)

Brennkraftmaschine mit variablem Hub.

Title (fr)

Moteur à combustion interne à rapport volumétrique variable.

Publication

**EP 0426540 B1 19940119 (FR)**

Application

**EP 90403023 A 19901026**

Priority

FR 8914263 A 19891031

Abstract (en)

[origin: EP0426540A1] The invention relates to an engine, the compression ratio of which varies in operation due to movement of the crankshaft in relation to the cylinder head. It comprises an independent cylinder block 1 and crankshaft block 3, the first receiving the cylinder head and the second the crankshaft 2, the connecting rods and the pistons; the two blocks are moved one in relation to the other by means of a displacement device 6, 7, 8 and are held connected together by support and guide elements. The relative displacement of the two blocks modifies the volume of the combustion chambers and allows the maximum admissible pressure to be maintained there so that the engine functions with maximum efficiency. The present engine gives fuel economy at low load and excess power at high speed. It is intended particularly for touring and racing cars. <IMAGE>

IPC 1-7

**F02B 75/04**

IPC 8 full level

**F02B 75/04** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP)

**F02B 75/047** (2013.01); **F02B 3/06** (2013.01)

Citation (examination)

US 2770224 A 19561113 - ERICSON MARY A

Cited by

EP1505276A1; US5443043A; EP1361356A3; FR2746848A1; US5572959A; CN106224096A; US7047917B2; US6260532B1; US6443107B1; US6637384B1; WO9736096A1; EP1361356A2; US6880499B2; EP1061242A2; US6354250B1

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