

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

Designated contracting state (EPC)

BE DE ES FR GB IT SE

DOCDB simple family (publication)

EP 0426540 A1 19910508; EP 0426540 B1 19940119; DE 69006177 D1 19940303; DE 69006177 T2 19940505; ES 2048467 T3 19940316; FR 2653826 A1 19910503; FR 2653826 B1 19940916

DOCDB simple family (application)

EP 90403023 A 19901026; DE 69006177 T 19901026; ES 90403023 T 19901026; FR 8914263 A 19891031