

Title (en)

Reciprocating internal combustion engine with a movable head.

Title (de)

Kolbenbrennkraftmaschine mit beweglichem Zylinderkopf.

Title (fr)

Moteur alternatif à combustion interne à culasse mobile.

Publication

**EP 0603961 A1 19940629 (EN)**

Application

**EP 93203576 A 19931217**

Priority

IT MI922935 A 19921223

Abstract (en)

A reciprocating internal combustion engine is proposed that allows a better exploitation of the energy delivered, produces less polluting emissions and is suitable for utilizing alternative fuels; the engine comprises at least one main piston (5; 53) sliding in a cylinder (4, 52) and operatively connected to a crank-shaft (6) and an elastically yielding head (7; 54) formed by at least one further piston (8; 55) sealingly sliding in the cylinder (4; 52), opposed to the main piston (5; 53), and subjected to the action of opposed first and second elastic means (18, 25; 57, 58) with balanced pre-loads. <IMAGE>

IPC 1-7

**F02B 75/04**; **F02B 75/38**

IPC 8 full level

**F02B 75/04** (2006.01); **F02B 75/38** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP)

**F02B 75/042** (2013.01); **F02B 75/38** (2013.01); **F02B 3/06** (2013.01); **F02B 2275/14** (2013.01)

Citation (search report)

- [X] BE 342230 A
- [A] EP 0488431 A2 19920603 - MIGNONE GIUSEPPE [IT]
- [A] DE 3130767 A1 19830428 - BECKER ULRICH [DE]

Cited by

DE29613109U1; EP2260191A4; EP2000658A3; EP2290218A1; USRE41335E; US8857404B2; JP2011513634A

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