

Title (en)

RECIPROCATING PISTON TYPE INTERNAL COMBUSTION ENGINE WITH VARIABLE COMPRESSION RATIO

Title (de)

VERBRENNUNGSMOTOR VOM TYP HUBKOLBENMOTOR MIT VARIABLEM VERDICHTUNGSVERHÄLTNIS

Title (fr)

MOTEUR A COMBUSTION INTERNE DE TYPE MOTEUR A PISTONS ALTERNATIFS A RAPPORT VOLUMETRIQUE VARIABLE

Publication

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Application

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Priority

- CH 9600062 W 19960228
- CH 56695 A 19950228

Abstract (en)

[origin: WO9627079A1] The compression ratio is variable in that the piston hub may be adjusted, since the connecting rod (9) is mounted at the crankshaft side on an eccentric crank pin (1). The eccentric crank pin (1) can be adjusted around its axis of rotation (2) by control means (3-6) while the engine is running. The control means (3-6) include a toothed wheel (3) that turns concentrically to the axis of rotation (2) of the eccentric crank pin (1) and is fixed thereto. This toothed wheel (3) acts as an external gear (3) inside a larger diameter internal gear (4) inside which it rolls. The internal gear (4) is concentrically mounted around the axis (8) of the crankshaft (14) and its rotating position may be adjusted. The external gear (3) turns exactly once upon itself every time it rolls round the internal gear (4).

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CPC (source: EP KR US)

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Citation (search report)

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