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

EP 0812383 A1 19971217 (DE)

Application

EP 96902207 A 19960228

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).

IPC 1-7

F02B 75/04

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

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WO 9627079 A1 19960906; AT E174661 T1 19990115; AU 4661996 A 19960918; AU 699252 B2 19981126; BR 9607054 A 19971230; CA 2212935 A1 19960906; CA 2212935 C 20070123; CN 1072767 C 20011010; CN 1176678 A 19980318; CZ 269397 A3 19980114; CZ 289670 B6 20020313; DE 59600999 D1 19990128; DK 0812383 T3 19990823; EP 0812383 A1 19971217; EP 0812383 B1 19981216; ES 2128156 T3 19990501; GR 3029473 T3 19990528; JP H11506511 A 19990608; KR 100403388 B1 20031218; KR 19980702582 A 19980715; MX 9706427 A 19980731; PL 184758 B1 20021231; PL 321955 A1 19980105; RU 2159858 C2 20001127; US 5908014 A 19990601

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