

Title (en)

RECIPROCATING PISTON ENGINE WITH PUMPING AND POWER CYLINDERS.

Title (de)

KOLBENMASCHINE MIT PUMPENZYLINDERN UND KRAFTZYLINDERN.

Title (fr)

MOTEUR A PISTONS ALTERNATIFS AYANT DES CYLINDRES DE POMPAGE ET DE PUISSANCE.

Publication

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Application

EP 90909109 A 19900615

Priority

- AU 9000261 W 19900615
- AU 5818490 A 19900615
- AU PJ478589 A 19890616

Abstract (en)

[origin: WO9015917A1] An internal combustion engine power unit comprises two power cylinders (3, 4) spaced equidistant about a pumping cylinder (5). All cylinders operate on two-stroke cycles, the power cylinders (3, 4) having a phase difference of 180 DEG . Power piston assemblies (13, 14) in the power cylinders (3, 4) drive crankshaft (1). Pumping piston (16) and separate crankshaft (2) are driven at twice the cyclic speed of the power pistons (13, 14) and crankshaft (1) through gear train (6, 7) between the respective crankshafts (1, 2). Air inducted into pumping cylinder (5) via intake ports (20) is compressed and passed alternately to power cylinders (3, 4) via valve controlled transfer passages (21, 24). All valves, ports and gas passages are found in a cylinder head (19). Timed fuel injection and ignition are provided. An engine may comprise one or more power units. There is also disclosed a turbo-charged diesel engine comprising two power units in "V" configuration.

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