

Title (en)
ENGINE WITH CRANKCASE COMPRESSION

Title (de)
MOTOR MIT VERDICHTUNG IM KURBELWELLENGEHÄUSE

Title (fr)
MOTEUR A COMPRESSION DANS LE CARTER

Publication
EP 1123456 A2 20010816 (EN)

Application
EP 99948401 A 19990922

Priority
• US 9922032 W 19990922
• US 10129898 P 19980922

Abstract (en)
[origin: WO0017500A2] An engine (10) has a block with a crankcase chamber (22) and two cylinders (24, 26) extending radially from the chamber (22). A piston (56, 60) reciprocates in each cylinder (24, 26). The crankcase chamber (22) accommodates a crankshaft (64) which causes the pistons (56, 60) to move in diametrically opposite directions. At any time, both pistons (56, 60) are moving either towards top dead center or towards bottom dead center. An injector (88) is arranged to admit a fuel mixture into the crankcase chamber (22) through an inlet opening (90) whenever the two pistons (56, 60) move towards top dead center. Two transfer tubes (98, 100) extend from an outlet opening (94) in the block to the combustion chambers of the respective cylinders (24, 26). The volume of fuel mixture drawn through the inlet opening (90) when the pistons (56, 60) move towards top dead center equals the sum of the displacements of the pistons (56, 60). The greater part of this volume is forced into a combustion chamber during an intake stroke with an accompanying precompression.

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F02B 1/00

IPC 8 full level
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Cited by
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