

Title (en)

Two stroke internal combustion engine with crosshead and comprising rotary sleeve distribution

Title (de)

Zweitaktbrennkraftmaschine mit Kreuzkopf und eine röhrenförmige Drehschieberventileinrichtung

Title (fr)

Moteur à explosion deux temps à crosse comportant un système de distribution à chemise rotative

Publication

EP 0799978 A3 19980107 (FR)

Application

EP 97430009 A 19970401

Priority

FR 9604425 A 19960403

Abstract (en)

[origin: EP0799978A2] The two stroke i.c. engine comprises a rotating liner distribution system. The cylinder (1) has double concentric walls (10,11) between which the liner (12) rotates. The liner comprises a cylindrical sheath with fresh air supply orifices (23), transfer, inlet and exhaust orifices located so as to control opening of the corresponding cylinder ports. The cylindrical liner is rotated synchronously through a drive shaft by an appropriate transmission such that in each rotation of the crankshaft the liner rotates through an angle equal to the angular pitch of the inlet and exhaust ports. A supply piston (8) driven by the cross rod (3) connecting the engine piston (2) to the rod (4) slides in an auxiliary cylinder in the crankcase (6). The supply piston induces and compresses fresh air then transfers it into the internal volume located behind the engine piston where it is passed into the combustion chamber.

IPC 1-7

F01L 7/04

IPC 8 full level

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CPC (source: EP)

F01L 7/04 (2013.01); **F02B 33/10** (2013.01); **F02B 2075/025** (2013.01)

Citation (search report)

- [A] FR 422270 A 19110317 - DIEGO GARCIA LOYNAZ [ES]
- [A] US 1749542 A 19300304 - LEIGH MEAD LAURENCE
- [A] DE 4404121 A1 19940825 - STUMMER WILFRIED [DE]
- [A] US 4185597 A 19800129 - CINQUEGRANI VINCENT J [US]
- [A] US 5421293 A 19950606 - NOLTEMEYER FRIEDRICH [DE], et al

Cited by

DE102005044686A1; CN102459828A; DE102019122325A1; DE102019122325B4; WO2010151238A1

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