

Title (en)
A two stroke internal combustion engine.

Title (de)
Zweitakt - Brennkraftmaschine.

Title (fr)
Moteur à combustion interne à deux temps.

Publication
EP 0223435 A1 19870527 (EN)

Application
EP 86308255 A 19861023

Priority
• GB 8526129 A 19851023
• GB 8527317 A 19851106

Abstract (en)
The engine according to the invention comprises a cylinder body (101) including at least one power piston/cylinder combination (104, 103) and at least one auxiliary piston/cylinder combination (108, 102) with the said combinations disposed in coaxial relationship, a separating wall disposed between adjacent piston/cylinder combinations, a connection rod (117) coaxially interconnecting the pistons (104, 108) for synchronous movement thereof between top- and bottom-dead-centre positions of the pistons and sealingly passing through said separating wall or walls, a connecting rod (106) and crank-shaft for converting reciprocal motion of the said combination into a rotational output, an exhaust port (109) for discharging exhaust gases from the cylinder (103) when the power piston (104) is in the region of bottom-dead-centre, an inlet port (111) including a one-way valve (112) in communication with at least that auxiliary cylinder (102) adjacent the power cylinder, means for controlling operation of the said one-way valve (112) in accordance with the engine firing cycle, a gas transport passage (113) interconnecting a power cylinder (103) and an adjacent auxiliary cylinder (102), and a valve (114) for controlling transportation of gas through the passage (113), a gas pump chamber (102 min) disposed on at least that side of an auxiliary piston (108) remote from an adjacent power piston (104) for compressing gaseous media, and means (110, 110 min) for igniting a fuel/gas mixture in each power cylinder or injecting fuel into each power cylinder.

IPC 1-7
F02B 33/08; F02B 33/14; F02B 63/04

IPC 8 full level
F02B 19/00 (2006.01); **F02B 33/04** (2006.01); **F02B 33/08** (2006.01); **F02B 33/14** (2006.01); **F02B 63/04** (2006.01); **F02B 63/06** (2006.01); **F02B 75/02** (2006.01)

CPC (source: EP)
F02B 33/04 (2013.01); **F02B 33/08** (2013.01); **F02B 33/14** (2013.01); **F02B 63/04** (2013.01); **F02B 63/06** (2013.01); **F02B 2075/025** (2013.01); **F02B 2075/027** (2013.01)

Citation (search report)
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Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0513868 A2 19921119; EP 0513868 A3 19930616; AT E86004 T1 19930315; AU 606316 B2 19910207; AU 6431786 A 19870430; CA 1333869 C 19950110; DE 3687821 D1 19930401; DE 3687821 T2 19930617; EP 0223435 A1 19870527; EP 0223435 B1 19930224; ES 2037662 T3 19930701; IN 172321 B 19930612

DOCDB simple family (application)
EP 92113454 A 19861023; AT 86308255 T 19861023; AU 6431786 A 19861023; CA 521022 A 19861021; DE 3687821 T 19861023; EP 86308255 A 19861023; ES 86308255 T 19861023; IN 934DE1986 A 19861022