

Title (en)
MULTIPLE-SLIDE VALVE GEAR

Publication
EP 0101431 A3 19850123 (DE)

Application
EP 83890129 A 19830812

Priority
AT 312882 A 19820818

Abstract (en)
[origin: US4481917A] A cylinder head of an internal-combustion engine, operating with the four-stroke Otto cycle, has a pair of diametrically opposite outlet ports and a pair of diametrically opposite inlet ports offset by 90 DEG from each other. Two coaxial annular shutters in the cylinder head, corotating with a speed ratio of 2:1, have each two mutually opposite solid quadrants and two intervening quadrants with valve apertures registering with the outlet ports and then with the inlet ports in two angular positions of the slower-rotating shutter spaced 45 DEG apart, both pairs of ports being blocked during the next quarter-turn of this shutter. A flow divider in the cylinder head directs richer components of an aspirated fuel/air mixture toward a spark plug while leaner components are diverted toward an associated piston head.

IPC 1-7
F01L 7/02

IPC 8 full level
F01L 7/02 (2006.01); **F01L 7/04** (2006.01); **F02B 1/04** (2006.01); **F02B 75/02** (2006.01)

CPC (source: EP US)
F01L 7/045 (2013.01 - EP US); **F02B 1/04** (2013.01 - EP US); **F02B 2075/027** (2013.01 - EP US)

Citation (search report)
• [X] GB 191019791 A 19110824 - BARKER THOMAS NORMAN
• [X] US 1570878 A 19260126 - DANFORD BURT W, et al
• [X] GB 151994 A 19220404 - ALESSANDRO TEBALDI
• [A] FR 691555 A 19301023

Cited by
DE102015005316A1; EP0745179A4; US10371022B2

Designated contracting state (EPC)
CH DE FR GB IT LI SE

DOCDB simple family (publication)
EP 0101431 A2 19840222; EP 0101431 A3 19850123; JP S5993912 A 19840530; US 4481917 A 19841113

DOCDB simple family (application)
EP 83890129 A 19830812; JP 14973483 A 19830818; US 52429683 A 19830818