

Title (en)  
Distribution device for an internal-combustion engine.

Title (de)  
Steuerungsanlage für eine Brennkraftmaschine.

Title (fr)  
Dispositif de distribution pour moteur volumétrique à combustion interne.

Publication  
**EP 0038781 A1 19811028 (FR)**

Application  
**EP 81830050 A 19810330**

Priority  
IT 338180 A 19800411

Abstract (en)  
The internal combustion engine operating at high speed, giving a high output, has a pair of pistons (1,2) reciprocating inside two sleeves with their piston rods parallel and spaced apart. At the bottom of each piston rod (3,4) is attached a swinging arm (12,13) each turning about an axis formed by spindle (11a, 12a) at right angles to the rods. Each rod carries a disc (6) acting as a valve member which is raised and lowered against the wall (7) of the piston, this acting as a valve seating. The two sleeves act as suction and discharge members for the combustion gases. The two swinging arms control the operation of these valves as the pistons reciprocate, and are controlled by a rotating cam (106) between them. The rods carry return springs (15,16). The suction sleeve carries a by pass for the piston to prevent excessive build-up of pressure.

Abstract (fr)  
Moteur volumétrique à combustion interne comprenant un couple de pistons (1,2) coulissant le long de chemises correspondantes (1a,2a) en communication respectivement avec le conduit d'aspiration (16) et de décharge (2b) du cylindre du moteur, chaque piston (1,2) étant mobile entre deux positions extrêmes, respectivement de fermeture et d'ouverture de la lumière d'afflux (A1) et de défluxion (A2) au ou du dit cylindre. En particulier, le piston (1) relatif au conduit d'aspiration (1b) est muni d'une soupape qui permet l'ouverture du ciel (6) du piston (1) quand ce dernier glisse dans le sens de fermeture de la lumière d'afflux (A1) tandis que le même ciel (6) se maintient en position de fermeture en correspondance à la translation du piston (1) selon le sens opposé.

IPC 1-7  
**F01L 5/04**; **F01L 5/22**

IPC 8 full level  
**F01L 5/04** (2006.01); **F01L 5/22** (2006.01)

CPC (source: EP)  
**F01L 5/04** (2013.01); **F01L 5/22** (2013.01)

Citation (search report)  
• [X] US 1859693 A 19320524 - ALFRED BUCHI  
• [X] GB 191301836 A 19130703 - IMRAY OLIVER [GB]  
• DE 297389 C  
• US 1642596 A 19270913 - ALESSANDRO TEBALDI

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