

Title (en)

VALVE DEVICE WITH A HYDRAULIC TRANSMISSION AND VARIABLE CHARACTERISTIC BY MEANS OF SLIDING VALVE CONTROL

Publication

EP 0279265 B1 19901219 (DE)

Application

EP 88101403 A 19880201

Priority

DE 3704071 A 19870210

Abstract (en)

[origin: US4821689A] A valve drive assembly for an internal combustion engine includes a given number of pistons, the given number of inlet or outlet valves each being connected to a piston and independently movable by hydraulic fluid acting upon the pistons, at least one rotatable link disposed in a housing for aiding in shutting off and releasing a supply of hydraulic fluid to the pistons at regular intervals, and an auxiliary shaft supported in the rotatable link and driven by a crankshaft. First and second supply lines for hydraulic fluid lead from a hydraulic pump to first and second annular grooves formed in the housing. The rotatable link has the given number of radial third and fourth conduits formed therein communicating with the first and second annular grooves. The auxiliary shaft has fifth and sixth annular grooves formed therein communicating with the third and fourth conduits. Fifth and sixth conduits communicate with the fifth and sixth annular grooves. Seventh and eighth conduits communicate with the fifth and sixth conduits. Third and fourth annular grooves lead from the seventh and eighth conduits to first and second conduits which lead to the pistons. Ribs divide the fifth and sixth annular grooves into the given number of sectors.

IPC 1-7

F01L 1/34; **F01L 9/02**; **F01L 31/22**

IPC 8 full level

F01L 9/10 (2021.01); **F01L 1/34** (2006.01); **F01L 13/00** (2006.01); **F01L 31/22** (2006.01); **F02D 13/02** (2006.01)

CPC (source: EP KR US)

F01L 1/34 (2013.01 - EP KR US); **F01L 9/10** (2021.01 - EP US); **F01L 13/0015** (2013.01 - EP KR US); **F01L 2301/02** (2020.05 - EP US)

Cited by

DE10315594A1; US5985237A; EP0721056A1; EP1734233A3; EP0390422A1; FR2702003A1; FR2758857A1; WO9101435A1; WO9102897A1; US6752116B2; EP2525066A2; DE102011102047A1; EP2525060A2; DE102011102008A1

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DOCDB simple family (application)

EP 88101403 A 19880201; AT 88101403 T 19880201; BR 8800533 A 19880209; CN 88100461 A 19880129; DE 3861290 T 19880201; ES 88101403 T 19880201; JP 2485388 A 19880204; KR 880001171 A 19880209; MX 1034388 A 19880209; SU 4203996 A 19880114; US 15479488 A 19880210