

Title (en)

Control device for exhaust valves of an internal combustion engine.

Title (de)

Einrichtung zum Steuern des Auslassventils einer Hubkolbenbrennkraftmaschine.

Title (fr)

Dispositif de commande pour des soupapes d'échappement d'un moteur à combustion interne.

Publication

EP 0515307 B1 19950104 (DE)

Application

EP 92810309 A 19920428

Priority

CH 152191 A 19910522

Abstract (en)

[origin: EP0515307A1] The device has a servopiston (12) which is connected to the exhaust valve (9) and is acted upon by a column of hydraulic fluid. The column is contained in a conduit (20) extending between the servopiston (12) and a stroke transmitter (61). A cam (23') of a camshaft (23) moves the stroke transmitter (61) in time with the engine and in doing this displaces the column towards the servopiston (12), the exhaust valve (9) thereby being actuated in the opening direction. Provided in the region of the column is a closable discharge passage (66) with a throttle (67', 69), via which a certain quantity of the hydraulic fluid is discharged for part of the time during which the stroke transmitter (61) is being moved by the cam (23'). It is thereby possible to vary the time at which the exhaust valve closes. <IMAGE>

IPC 1-7

F01L 9/02

IPC 8 full level

F01L 1/38 (2006.01); **F01L 9/12** (2021.01); **F01L 9/14** (2021.01); **F01L 13/00** (2006.01); **F02B 25/04** (2006.01)

CPC (source: EP KR)

F01L 9/12 (2021.01 - EP); **F01L 9/14** (2021.01 - EP); **F01L 13/00** (2013.01 - KR)

Citation (examination)

- FR 2436255 A1 19800411 - MASCHF AUGSBURG NUERNBERG AG [DE]
- FR 2287583 A1 19760507 - MASCHF AUGSBURG NUERNBERG AG [DE]
- US 2785667 A 19570319 - RALPH MILLER

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CN1042967C; GB2410060A; EP2500550A1; CN104160120A; EP0977935A4; ES2376927A1; US10156191B2; WO2013132143A1; WO2010006599A1; WO2012123264A1

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EP 92810309 A 19920428; CH 152191 A 19910522; DE 59201118 T 19920428; DK 92810309 T 19920428; JP 13076992 A 19920522; KR 920008487 A 19920520