

Title (en)

Hydraulically operated valve having a controllable lift.

Title (de)

Hydraulisch betätigbares Ventil mit steuerbarem Hub.

Title (fr)

Soupape actionnable hydrauliquement à levée réglable.

Publication

EP 0393017 A2 19901017 (DE)

Application

EP 90890109 A 19900409

Priority

AT 86589 A 19890412

Abstract (en)

[origin: JPH02294553A] PURPOSE: To correct the error based on different thermal expansion and wear by providing a control means to control the action of a stop cam corresponding to the running condition so that the stop cam is brought into contact with a stop face even at the closed position of a valve. CONSTITUTION: A motor is driven through a friction clutch 14, a stop face 12 and a stop cam 11 interacted therewith are provided, the maximum valve stroke is regulated by turning the stop cam 11 by the specified angle, and the stop cam 11 is brought into contact with the stop face 12 even at the closed position of a valve 1. In addition, a control means 16 to control the action of the stop cam 11 corresponding to the running condition of an internal combustion engine is provided. In such a constitution, the valve 1 has two terminating positions, i.e., the position where a valve element is abutted on a valve seat 4, and the position where the stop face 12 is stopped. The stop cam 11 is designed so as to be brought into contact with the stop face 12 even at the closed position of the valve 1.

Abstract (de)

Ein hydraulisch betätigbares Ventil mit steuerbarem Hub, insbesondere Gemischeinblaseventil für Brennkraftmaschinen weist eine fest mit dem Ventilschaft (3) verbundene Anschlagfläche (12) auf. Es ist zur genauen Steuerung der Ventilöffnung eine motorisch über eine Rutschkupplung (14) angetriebene Anschlagnocke (11) vorgesehen, die mit der Anschlagfläche (12) zusammenwirkt, wobei durch Verdrehung der Anschlagnocke (11) um einen vorbestimmten Winkel der maximale Ventilhub einstellbar ist und wobei die Anschlagnocke (11) auch in der geschlossenen Stellung des Ventils (1) in Berührung mit der Anschlagfläche (12) bringbar ist.

IPC 1-7

F02M 47/00; **F02M 67/06**; **F02M 67/12**

IPC 8 full level

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CPC (source: EP US)

F02M 47/043 (2013.01 - EP US); **F02M 61/161** (2013.01 - EP US); **F02M 67/12** (2013.01 - EP US)

Cited by

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Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0393017 A2 19901017; **EP 0393017 A3 19910327**; **EP 0393017 B1 19921202**; AT 407428 B 20010326; AT A86589 A 20000715; DE 59000524 D1 19930114; JP 2571452 B2 19970116; JP H02294553 A 19901205; US 5048489 A 19910917

DOCDB simple family (application)

EP 90890109 A 19900409; AT 86589 A 19890412; DE 59000524 T 19900409; JP 9744490 A 19900412; US 50745390 A 19900411