

Title (en)

Rotary valve arrangement for the charge control of an internal combustion engine

Title (de)

Walzenschieber-Anordnung, insbesondere zur Ladungssteuerung einer Brennkraftmaschine

Title (fr)

Agencement d'une soupape rotative pour le réglage de charge d' un moteur à combustion interne

Publication

EP 1281839 A3 20030702 (DE)

Application

EP 02013352 A 20020619

Priority

DE 10137251 A 20010731

Abstract (en)

[origin: EP1281839A2] A roller slide (4) has a central passage channel (6) and a slide ring (9), which partially defines an intake channel (8). When the passage channel opens the intake channel, the slide ring is lifted off the outer contour (10) of the rotary slide by a spring (12). The slide ring is located in a stepped bore (7) in a housing (3), and is supported on the smaller bore section (7'). The ring has a radial flange (13) in the larger bore section (7''). The spring is located between the step (14) of the bore and the flange.

IPC 1-7

F01L 7/02; **F01L 1/44**; **F02D 9/16**; **F01L 7/16**

IPC 8 full level

F01L 1/44 (2006.01); **F01L 7/16** (2006.01); **F02D 9/16** (2006.01); **F02D 9/02** (2006.01)

CPC (source: EP)

F01L 1/443 (2013.01); **F01L 7/16** (2013.01); **F02D 9/16** (2013.01); **F02D 9/02** (2013.01)

Citation (search report)

- [AP] DE 10034679 A1 20020131 - BAYERISCHE MOTOREN WERKE AG [DE]
- [A] EP 1055802 A2 20001129 - BAYERISCHE MOTOREN WERKE AG [DE]
- [A] US 4606309 A 19860819 - FAYARD JEAN-CLAUDE [FR]

Cited by

CN100410509C; EP1674696A1; EP2881571A1; FR3014147A1; JP2015110948A; US7146941B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1281839 A2 20030205; **EP 1281839 A3 20030702**; **EP 1281839 B1 20061025**; DE 10137251 A1 20030213; DE 50208523 D1 20061207

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