

Title (en)

Apparatus for variable actuation of a poppet valve in a combustion engine

Title (de)

Vorrichtung zur variablen Betätigung eines Hubventils einer Brennkraftmaschine

Title (fr)

Appareil pour actionnement variable d'une soupape d'un moteur à combustion interne

Publication

**EP 1350928 A3 20031210 (DE)**

Application

**EP 03007234 A 20030401**

Priority

DE 10215281 A 20020406

Abstract (en)

[origin: EP1350928A2] The variable operation device has a reciprocally movable linear cam (12) arranged in the drive train between an oscillating actuator (8,9) and the lift valve (3). The linear cam is pivotably linked to a pivoting lever (10) that is pivoted by the actuator and that has a pivot bearing that can be displaced transversely relative to its axis. The lever is mounted on an eccentric shaft (17) that can be rotated to shift the pivot bearing.

IPC 1-7

**F01L 13/00**; **F01L 31/14**; **F01L 1/18**; **F01L 1/20**; **F01L 1/24**; **F02D 13/02**

IPC 8 full level

**F01L 1/18** (2006.01); **F01L 1/24** (2006.01); **F01L 13/00** (2006.01)

CPC (source: EP)

**F01L 1/182** (2013.01); **F01L 1/2405** (2013.01); **F01L 13/0005** (2013.01); **F01L 13/0063** (2013.01); **F01L 2305/00** (2020.05)

Citation (search report)

- [A] DE 4326331 A1 19950209 - BAYERISCHE MOTOREN WERKE AG [DE]
- [A] US 3911879 A 19751014 - ALTMANN WERNER
- [A] DE 4135257 A1 19930429 - KUHN PETER PROF DR ING [DE]
- [A] DE 10040544 A1 20020228 - SCHAEFFLER WAEHLZLAGER OHG [DE]
- [A] US 5119773 A 19920609 - SCHOEN HELMUT [DE], et al
- [A] US 4459946 A 19840717 - BURANDT CORLISS O [US]
- [A] US 4205634 A 19800603 - TOURTELOT EDWARD M JR [US]
- [A] US 4469056 A 19840904 - TOURTELOT JR EDWARD M [US], et al
- [A] US 5027760 A 19910702 - STORCHI FRANCO [IT]

Cited by

EP1772597A3; CN100460633C; EP1793098A3; EP1748160A1; WO2004067924A1

Designated contracting state (EPC)

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**EP 1350928 A2 20031008**; **EP 1350928 A3 20031210**; **EP 1350928 B1 20060927**; DE 10215281 A1 20031016; DE 50305150 D1 20061109

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