

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)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

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

DOCDB simple family (application)

EP 03007234 A 20030401; DE 10215281 A 20020406; DE 50305150 T 20030401