

Title (en)

Valve operating system comprising a two-step roller finger follower

Title (de)

Ventilbetriebssystem mit einem Zweistufen-Rollenschlepphebel

Title (fr)

Système de fonctionnement de soupape comportant un suiveur de contact à rouleau à deux étapes

Publication

**EP 2050933 A1 20090422 (EN)**

Application

**EP 07118713 A 20071017**

Priority

EP 07118713 A 20071017

Abstract (en)

Valve operating system (14) comprising a rocker arm assembly (21) and a locking system (30), wherein the rocker arm assembly (21) comprises a primary arm (22) pivotably mounted around a main pivot axis (Oy) wherein the locking system (30) comprises a movable lock pin (32), characterized in that an outside portion (47) of the lock pin (32) extends at least partly outside the primary arm (22), in that the locking system (30) comprises an electromechanical actuator (44) cooperating with the outside portion (47) of the lock pin (32), and in that the actuator (44) comprises compensating means (42, 43, 55) for lock pin (32) control.

IPC 8 full level

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

CPC (source: EP)

**F01L 1/185** (2013.01); **F01L 13/0036** (2013.01); **F01L 2001/186** (2013.01); **F01L 2001/3443** (2013.01); **F01L 2820/031** (2013.01)

Citation (search report)

- [X] US 6318318 B1 20011120 - JAHR KEN O [US]
- [X] DE 10310220 A1 20040916 - DAIMLER CHRYSLER AG [DE]
- [X] DE 102005006056 A1 20060824 - DAIMLER CHRYSLER AG [DE]
- [A] US 7121241 B1 20061017 - GENISE DAVID G [US], et al
- [A] US 5529033 A 19960625 - HAMPTON KEITH [US]

Cited by

EP3536916A1; CN110541738A; CN105298572A; US2017241300A1; US10180089B2; EP2472075A4; CN103470324A; FR2995935A1; DE102017204877A1; CN109072727A; DE102018101868A1; CN107849948A; EP3303782A4; CN113565596A; JP2019157631A; FR2990482A1; CN109964008A; CN109964009A; EP3526453A4; FR2983369A1; FR2990465A1; CN106661974A; JP2017525886A; EP3183438A4; EP3183437A4; US11008968B2; DE102016208472A1; WO2017156125A3; WO2018075392A1; WO2018162094A1; WO2016197088A1; US10781725B2; DE102017106689A1; US10662826B2; US10753303B2; WO2019144985A1; US10480362B2; US11092043B2; KR20190106677A; US10487763B2; US10731517B2; US10801418B2; US10662825B2; US10731516B2; US10358951B2; US10731518B2; US11002156B2; WO2013171392A1; WO2016028812A1; WO2016028824A1; WO2018075341A1; WO2018075342A1; WO2018075343A1

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA HR MK RS

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