

## Title (en)

Valve deactivator assembly for internal combustion engine

## Title (de)

Ventildeaktivierungsmechanismus einer Brennkraftmaschine

## Title (fr)

Dispositif de désactivation d'une soupape d'un moteur à combustion

## Publication

**EP 1143120 A3 20011024 (EN)**

## Application

**EP 01302059 A 20010306**

## Priority

US 52105400 A 20000308

## Abstract (en)

[origin: EP1143120A2] A valve deactivator assembly (43) including a rocker arm (33) having a pivot location (39) about which the rocker arm (33) normally pivots in response to rotation of the cam shaft (25). The valve deactivator assembly includes an HLA (hydraulic lash adjuster) (41) which serves as the pivot point for the rocker arm. The HLA includes a body (49) and a plunger assembly (53), including a plunger portion (67) having an engagement portion (69) surrounding the plunger portion (67) and in engagement with the pivot portion (39) of the rocker arm. A latch mechanism (79-91) is operable to either latch the engagement portion (69) to the plunger portion, for operation in a normal mode, or unlatch the engagement portion, for operation in a deactivated mode. Thus, the latch mechanism of the present invention does not add to the overall size of the main part of the HLA, or of the bore (45) in the cylinder head (11) in which the HLA is located. <IMAGE>

## IPC 1-7

**F01L 13/00**; **F01L 1/24**

## IPC 8 full level

**F01L 1/34** (2006.01); **F01L 1/24** (2006.01); **F01L 13/00** (2006.01)

## CPC (source: EP KR)

**F01L 1/2405** (2013.01 - EP); **F01L 1/34** (2013.01 - KR); **F01L 13/0005** (2013.01 - EP)

## Citation (search report)

- [A] DE 19838909 A1 20000302 - SCHAEFFLER WAEHLZLAGER OHG [DE]
- [A] EP 0634564 A1 19950118 - BAYERISCHE MOTOREN WERKE AG [DE]
- [A] US 3610218 A 19711005 - DURHAM ROGER OWEN
- [A] PATENT ABSTRACTS OF JAPAN vol. 009, no. 316 (M - 438) 12 December 1985 (1985-12-12)
- [A] PATENT ABSTRACTS OF JAPAN vol. 011, no. 028 (M - 557) 27 January 1987 (1987-01-27)

## Cited by

DE102007054615B4; US8434437B2; DE102006045017A1; DE10330510A1; DE10146131A1; CN113474540A; DE102005010750A1; GB2413156A; FR2869071A1; US2010275864A1; KR20170021336A; US7484484B2; US6595174B2; DE102015221042A1; US10066517B2; US8136495B2; WO2022100886A1; WO2009030564A3; WO2008086913A1; WO2015197056A1; DE102009019680A1; WO2022189042A1

## Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

## DOCDB simple family (publication)

**EP 1143120 A2 20011010**; **EP 1143120 A3 20011024**; JP 2001271620 A 20011005; KR 20010089206 A 20010929

## DOCDB simple family (application)

**EP 01302059 A 20010306**; JP 2001063582 A 20010307; KR 20010011919 A 20010308