

Title (en)

Valve drive for an internal combustion engine

Title (de)

Ventiltrieb für eine Verbrennungskraftmaschine

Title (fr)

Commande de soupape pour un moteur à combustion interne

Publication

**EP 1063391 A3 20010502 (DE)**

Application

**EP 00112962 A 20000620**

Priority

DE 19928284 A 19990621

Abstract (en)

[origin: EP1063391A2] The valve is retained in position by a valve spring held between spring plate and spring bearing. The adjustable valve spring bearing consists of meshing adjusting rings (102,103), which are turned in opposite directions. The inner ring (102) has a surface (104) to support the valve spring, and during turning against the outer ring is moved in direction of the valve axis. Both rings have elements esp. profiling, to prevent turning in the opposite direction.

IPC 1-7

**F01L 1/32**; **F01L 9/04**; **F01L 3/10**; **F01L 1/46**; **F01L 3/08**

IPC 8 full level

**B61C 9/52** (2006.01); **C07C 49/603** (2006.01); **F01L 1/32** (2006.01); **F01L 1/46** (2006.01); **F01L 3/08** (2006.01); **F01L 3/10** (2006.01)

CPC (source: EP US)

**F01L 1/32** (2013.01 - EP US); **F01L 1/46** (2013.01 - EP US); **F01L 1/462** (2013.01 - EP US); **F01L 3/08** (2013.01 - EP US);  
**F01L 3/10** (2013.01 - EP US)

Citation (search report)

- [A] DE 4129637 A1 19930311 - SCHAEFFLER WÄLZLAGER KG [DE]
- [A] WO 8503737 A1 19850829 - HARDY REGINALD JOHN
- [A] US 3114361 A 19631217 - MULLEN WILBUR L
- [A] US 5720468 A 19980224 - MORINIGO FERNANDO B [US]
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DOCDB simple family (publication)

**EP 1063391 A2 20001227**; **EP 1063391 A3 20010502**; **EP 1063391 B1 20041020**; DE 19928284 A1 20001228; DE 50008293 D1 20041125;  
US 6279526 B1 20010828

DOCDB simple family (application)

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