

Title (en)  
Valve rotating device

Title (de)  
Ventildrehvorrichtung

Title (fr)  
Dispositif de rotation de soupape

Publication  
**EP 1148211 A3 20021106 (DE)**

Application  
**EP 01109652 A 20010419**

Priority  
DE 10020071 A 20000422

Abstract (en)  
[origin: EP1148211A2] The device has body with central bore, containing valve cone parts, and a valve spring cover with spring contact surface (2). Elements (7,8,9,10,11) between cover (1) and body (3) transmit the rotary spring movement occurring during relief movement of the spring, from the cover to the body. The cover has a toothed rim (8) concentric to the valve axis (19), with one-sided lock teething, which engages with locking ring (9). The ring is moveable in longitudinal valve direction and is connected to the body.

IPC 1-7  
**F01L 1/32**

IPC 8 full level  
**F01L 1/32** (2006.01)

CPC (source: EP)  
**F01L 1/32** (2013.01)

Citation (search report)  
• [XA] FR 2075752 A5 19711008 - MAERKISCHES WERK GMBH  
• [A] EP 0892154 A1 19990120 - WAERTSILAE NSD SCHWEIZ AG [CH]  
• [A] DE 19500321 A1 19950601 - HENZE KLAUS DIPL ING [DE]  
• [A] DE 3040519 A1 19820527 - SCHAEFFLER OHG INDUSTRIEWERK [DE]  
• [A] DE 2155363 A1 19730517 - MOTOR COMPONENTS BIRMINGHAM LT

Cited by  
CN115030795A

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 1148211 A2 20011024; EP 1148211 A3 20021106; EP 1148211 B1 20040804**; DE 10020071 A1 20011025; DE 50103061 D1 20040909

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