

Title (en)  
Exhaust gas recirculation valve

Title (de)  
Abgasrückführventil

Title (fr)  
Soupape de recirculation de gaz d'échappement

Publication  
**EP 1450030 A1 20040825 (EN)**

Application  
**EP 03100369 A 20030218**

Priority  
EP 03100369 A 20030218

Abstract (en)  
An exhaust gas recirculation valve (10) for an engine comprises a valve body (12) having a valve passage (14) therein for exhaust gases. A valve seat (20) is arranged in the valve passage (14) and a closing element (22) is associated therewith. A valve shaft (24) is attached at one end to the closing element (22) and extends out of the passage (14) through a shaft aperture (26) to be coupled at its other end to actuating means. Protecting means (36) are provided around the valve shaft (24) in the valve passage (14) and designed so as to deviate exhaust gases travelling along the valve shaft (24) in such a way as not to directly impinge onto the shaft (24) in the vicinity of the shaft aperture (26).

IPC 1-7  
**F02M 25/07**

IPC 8 full level  
**F02M 25/07** (2006.01)

CPC (source: EP)  
**F02M 26/53** (2016.02); **F02M 26/67** (2016.02); **F02M 26/74** (2016.02); **F02M 26/50** (2016.02)

Citation (search report)  
• [YA] DE 10032148 A1 20020110 - PIERBURG AG [DE]  
• [XAY] US 4350136 A 19820921 - YANAGISAWA SYOZO  
• [XA] US 2001023688 A1 20010927 - MEILINGER ROBERT [US], et al  
• [XAY] PATENT ABSTRACTS OF JAPAN vol. 017, no. 612 (M - 1509) 11 November 1993 (1993-11-11)  
• [XAY] PATENT ABSTRACTS OF JAPAN vol. 018, no. 143 (M - 1574) 9 March 1994 (1994-03-09)  
• [XAY] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 12 26 December 1996 (1996-12-26)  
• [XA] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 02 5 February 2003 (2003-02-05)  
• [A] PATENT ABSTRACTS OF JAPAN vol. 2002, no. 02 2 April 2002 (2002-04-02)

Cited by  
DE102014201085B4; FR2902470A1; FR2902465A1; EP1605155A3; CN103953471A; DE102014201085A1; CN113544421A; JP2017044155A; CN108019523A; WO2006124292A1; WO2020177956A1

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 SE SI SK TR

DOCDB simple family (publication)  
**EP 1450030 A1 20040825**

DOCDB simple family (application)  
**EP 03100369 A 20030218**