Title (en)

WHIRL-STOP DEVICE FOR ROCKER ARM SHAFT IN VALVE MECHANISM OF INTERNAL COMBUSTION ENGINE

Title (de)

WIRBELHEMMVORRICHTUNG FÜR SCHWINGHEBELSCHAFT IN EINEM VENTILMECHANISMUS EINES VERBRENNUNGSMOTORS

Title (fr)

DISPOSITIF A BUTEE TOURBILLON POUR AXE DE CULBUTEUR D'UN MECANISME DE SOUPAPES DE MOTEUR A COMBUSTION INTERNE

Publication

EP 1452699 A1 20040901 (EN)

Application

EP 02762894 A 20020828

Priority

- JP 0208678 W 20020828
- JP 2001279703 A 20010914

Abstract (en)

In a valve-operating device in an internal combustion engine, including two rocker arm shafts mounted in a cylinder head, and intake and exhaust cams and intake and exhaust valves which are connected to each other by rocker arms swingably carried on the rocker arm shafts, a detent plate (42) is fixed in a tightened manner to the cylinder head (3) between the two rocker arm shafts (32, 33) by a tightening bolt (43). Engage portions (42c, 42d) formed on front sides of first and second arms (42a, 42b) of the detent plate (42) in a direction (a) of tightening rotation of the tightening bolt are respectively brought into engagement with engaged portions (32a, 33a) formed on the two rocker arm shafts (32, 33). Thus, it is possible to reliably achieve the prevention of the rotation of the two rocker arm shafts. <IMAGE>

IPC 1-7

F01L 1/18

IPC 8 full level

F01L 1/02 (2006.01); **F01L 1/053** (2006.01); **F01L 1/18** (2006.01); **F01L 1/46** (2006.01); **F16B 1/02** (2006.01)

CPC (source: EP KR)

F01L 1/02 (2013.01 - EP); **F01L 1/022** (2013.01 - EP); **F01L 1/053** (2013.01 - EP); **F01L 1/18** (2013.01 - KR); **F01L 1/181** (2013.01 - EP); **F01L 1/182** (2013.01 - EP); **F01L 1/46** (2013.01 - EP); F01L 2305/02 (2020.05 - EP)

Cited by

EP1895112A4

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 1452699 A1 20040901; **EP 1452699 A4 20070502**; **EP 1452699 B1 20090722**; AR 036522 A1 20040915; BR 0205989 A 20030826; BR 0205989 B1 20110309; CN 100580227 C 20100113; CN 1549888 A 20041124; JP 2003083009 A 20030319; JP 3526836 B2 20040517; KR 100567568 B1 20060405; KR 20040029441 A 20040406; MY 129621 A 20070430; WO 03027447 A1 20030403

DOCDB simple family (application)

EP 02762894 A 20020828; AR P020103475 A 20020913; BR 0205989 A 20020828; CN 02817041 A 20020828; JP 0208678 W 20020828; JP 2001279703 A 20010914; KR 20047002824 A 20020828; MY PI20023433 A 20020914