

## Title (en)

Valve operating system in internal combustion engine

## Title (de)

Ventilsteuerungseinrichtung für eine Brennkraftmaschine

## Title (fr)

Dispositif de commande de soupape pour moteur à combustion interne

## Publication

**EP 1013898 A3 20001004 (EN)**

## Application

**EP 99125230 A 19991217**

## Priority

- JP 36438098 A 19981222
- JP 37634598 A 19981223
- JP 35180099 A 19991210

## Abstract (en)

[origin: EP1013898A2] A valve operating system in an internal combustion engine includes a cam shaft provided with a valve operating cam, a rocker arm having a pair of support wall portions which are integrally connected at their base ends to a swinging support portion swingably supported on a support member mounted on a cylinder head and which are opposed to each other at a distance in a direction along the swinging axis of the swinging support portion, a support shaft supported between the support wall portions, and a roller which is rotatably supported on the support shaft with a bearing interposed therebetween so as to be in rolling contact with the valve operating cam. A lower connecting wall interconnecting lower portions of the base ends of the support wall portions is projectingly provided on the swinging support portion in a manner opposed to an outer peripheral surface of a lower portion of the roller. Thus, it is possible to increase the rigidity of the rocker arm, while avoiding an increase in size of the rocker arm. <IMAGE>

## IPC 1-7

**F01L 1/26**; **F01L 1/18**; **F01L 1/053**; **F01L 1/46**

## IPC 8 full level

**F01L 1/053** (2006.01); **F01L 1/18** (2006.01); **F01L 1/26** (2006.01); **F01L 1/46** (2006.01)

## CPC (source: EP)

**F01L 1/053** (2013.01); **F01L 1/185** (2013.01); **F01L 1/267** (2013.01); **F01L 1/46** (2013.01)

## Citation (search report)

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- [X] PATENT ABSTRACTS OF JAPAN vol. 018, no. 491 (M - 1672) 13 September 1994 (1994-09-13)

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## Designated contracting state (EPC)

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

## DOCDB simple family (publication)

**EP 1013898 A2 20000628**; **EP 1013898 A3 20001004**; **EP 1013898 B1 20050803**; CA 2293000 A1 20000622; CA 2293000 C 20050802; DE 69926475 D1 20050908; DE 69926475 T2 20060406

## DOCDB simple family (application)

**EP 99125230 A 19991217**; CA 2293000 A 19991221; DE 69926475 T 19991217