

Title (en)

BALL JOINT PLACED BETWEEN A ROCKER ARM AND A VALVE SHAFT IN AN INTERNAL-COMBUSTION ENGINE

Publication

EP 0301267 B1 19911211 (DE)

Application

EP 88110594 A 19880702

Priority

DE 3725245 A 19870730

Abstract (en)

[origin: JPS6453007A] PURPOSE: To remove the play between a spherical end face of a pivot and a spherical cavity of a joint socket by engaging a retaining member which is made of a spring element that is borne by elastic bias against the joint socket. CONSTITUTION: An idle compensating member 2 is arranged in a rocker arm 1 and a spherical end face 5 of a pivot 4 of the idle compensating member 2 is engaged with a spherical cavity 6 of a joint socket 7. A plane surface 8 of the joint socket 7 contacts with an end of a valve stem 3. An end of a restraining element 10 which is made of a spring element is linked to the end of a piston of the idle compensating member 2 by way of a collar 11. The restraining element 10 is biased elastically, then an another side of a leg part 12 cooperates with the joint socket 7. Thereby, the play between the spherical end surface 5 and the spherical cavity 6 can be removed.

IPC 1-7

F01L 1/24; **F01L 1/46**

IPC 8 full level

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CPC (source: EP US)

F01L 1/2411 (2013.01 - EP US); **F01L 1/46** (2013.01 - EP US); **F01L 2001/187** (2013.01 - EP US)

Cited by

EP2462322A4; EP0758046A1; EP0688981A1; GB2237858A; US5022361A; US7789052B2; WO2009038935A1; WO2008002746A3; WO2009005774A1

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