Title (en)
VALVE ROTATING DEVICE

Title (de)
VENTILDREHVORRICHTUNG

Title (fr)
DISPOSITIF DE ROTATION POUR SOUPAPE

Publication
EP 1268986 A1 20030102 (DE)

Application
EP 01927826 A 20010328

Priority
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Abstract (en)
[origin: US2003037742A1] The invention relates to a valve rotator having an annular body in which are circumferentially provided several ball pockets having inclined ball races and in which a ball and a tangential spring are located in each case. In a rest position, the tangential springs press the balls at an upper point of the inclined ball races. An annular cover is also provided, which is rotatable and axially displaceable relative to the body. There is also an axial spring device between the body and the cover, the axial spring device pressing them apart axially in the rest position and if a valve spring tension is applied the body and the cover are pressed axially against one another and the balls roll along the ball races to a lower point. There is a clearly defined rotation between the body and the cover. A drastic reduction of wear is brought about in that the axial spring device is spaced from the balls and on one axial side of the axial spring device is provided a pivot bearing. The balls are in contact with the cover.

IPC 1-7
F01L 1/32

IPC 8 full level
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CPC (source: EP US)
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Citation (search report)
See references of WO 0173270A1

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