

Title (en)
Valve rotating device

Title (de)
Ventildrehvorrichtung

Title (fr)
Dispositif pour la rotation des soupapes

Publication
EP 1227224 A3 20030212 (DE)

Application
EP 01127714 A 20011121

Priority
DE 10103578 A 20010126

Abstract (en)
[origin: EP1227224A2] The valve rotating device has a base body with pockets for rolling bodies, with a cap acting as a rest for the valve spring and a dish spring. The base body (1) and the cap (5) are made from deformed sheet metal. The deformation may be limited to the functionally important surfaces of the components.

IPC 1-7
F01L 1/32

IPC 8 full level
F01L 3/10 (2006.01); **F01L 1/32** (2006.01)

CPC (source: EP KR US)
F01L 1/32 (2013.01 - EP KR US); **F01L 2303/00** (2020.05 - EP US)

Citation (search report)
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• [A] DE 1924128 A1 19701126 - TEVES THOMPSON GMBH
• [A] US 1513075 A 19241028 - TREMBLEY LOU J
• [A] DE 2208466 A1 19730830 - SCHAEFFLER OHG INDUSTRIEWERK
• [A] US 2875740 A 19590303 - LEAKE JAMES M

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EP2382379A4; CN106030056A; WO2023030701A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1227224 A2 20020731; EP 1227224 A3 20030212; EP 1227224 B1 20061018; DE 10103578 A1 20020814; DE 50111268 D1 20061130; JP 2002242620 A 20020828; KR 20020063101 A 20020801; US 2002100449 A1 20020801; US 6588391 B2 20030708

DOCDB simple family (application)
EP 01127714 A 20011121; DE 10103578 A 20010126; DE 50111268 T 20011121; JP 2001372788 A 20011206; KR 20010076516 A 20011205; US 5861302 A 20020128