

Title (en)
Valve rotating device

Title (de)
Ventildrehvorrichtung

Title (fr)
Dispositif pour la rotation des soupapes

Publication
EP 1227224 B1 20061018 (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 8 full level
F01L 1/32 (2006.01); **F01L 3/10** (2006.01)

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

Cited by
EP2382379A4; CN106030056A; WO2023030701A1

Designated contracting state (EPC)
DE FI FR GB IT SE

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