

Title (en)
SWITCHABLE ROCKER ARM OF A VALVE DRIVE PERTAINING TO AN INTERNAL COMBUSTION ENGINE

Title (de)
SCHALTBARER SCHLEPPHEBEL EINES VENTILTRIEBS EINER BRENNKRAFTMASCHINE

Title (fr)
BASCULEUR COMMUTABLE D'UN MECANISME DE DISTRIBUTION D'UN MOTEUR A COMBUSTION INTERNE

Publication
EP 1848878 A1 20071031 (DE)

Application
EP 06706392 A 20060125

Priority
• EP 2006000621 W 20060125
• DE 102005006954 A 20050216

Abstract (en)
[origin: WO2006087076A1] The invention relates to a switchable rocker arm (1) of a valve drive pertaining to an internal combustion engine. The inner lever (3) of said rocker arm comprises a piston (6) on one end thereof, that can be longitudinally displaced, and acts as a coupling means. Said coupling means can be partially brought into contact with a driving surface (7) of an outer lever (2), and is provided, for example, with a rising radial profile (13) in the coupling region thereof, and from the front (12) in the coupling direction. The driving surface (7) of the outer lever (2) also has a conical course following the profile (13). During the coupling, a contact point (K) of the piston (6) is located on the driving surface (7), in the region of half the depth thereof (7). In this way, the formation of undesired edge supports is prevented during the coupling.

IPC 8 full level
F01L 1/18 (2006.01)

CPC (source: EP US)
F01L 1/185 (2013.01 - EP US); **F01L 2001/186** (2013.01 - EP US); **Y10T 74/2107** (2015.01 - EP US)

Citation (search report)
See references of WO 2006087076A1

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
DE 102005006954 A1 20060817; EP 1848878 A1 20071031; EP 1848878 B1 20130417; US 2008264368 A1 20081030;
US 7503300 B2 20090317; WO 2006087076 A1 20060824

DOCDB simple family (application)
DE 102005006954 A 20050216; EP 06706392 A 20060125; EP 2006000621 W 20060125; US 81646606 A 20060125