

Title (en)

SWITCHED CAM FOLLOWER OR SWITCHED SUPPORT ELEMENT OF A VALVE GEAR OF AN INTERNAL COMBUSTION ENGINE

Title (de)

SCHALTBARER NOCKENFOLGER ODER SCHALTBARES ABSTÜTZELEMENT EINES VENTILTRIEBS EINER BRENNKRAFTMASCHINE

Title (fr)

GALET SUIVEUR COUPLABLE OU ELEMENT DE SUPPORT COUPLABLE D'UN ENTRAÎNEMENT DE SOUPAPE DANS UN MOTEUR A COMBUSTION INTERNE

Publication

EP 1466082 B1 20080305 (DE)

Application

EP 03729438 A 20030110

Priority

- DE 10201805 A 20020118
- EP 0300158 W 20030110

Abstract (en)

[origin: WO03060294A1] The invention relates to a switched cam follower (1) or to a switched support element of a valve gear of an internal combustion engine. Said follower or element comprises an outer part (2) which is assembled with an inner part (4) that is mobile relative thereto in the direction of cam travel. Said inner part (4), at its separation gap (5) to the outer part (2), is provided with two spaced apart or opposite openings (6, 7) for coupling means. Said openings (6, 7), in a cam position, are aligned with one further opening (10, 11) each for coupling means in the outer part (2). The coupling means are configured and arranged in such a manner that, when coupled, one each on a coupling side (12, 13) extends across the separation gap (5) in such a manner that it extends simultaneously inside the opening (10, 6) of the outer and inner part (2, 4). According to the invention, in a decoupled position of the coupling means (14, 16), an axial empty run of the coupling means (15) on the one coupling side (12) is large up to the moment of coupling and the axial empty run of the coupling means (14) on the other coupling side (13) is small up to the moment of coupling. The invention provides a switched cam follower (1) or a switched support element which can be produced with little complication, has a reduced complexity and substantially reduces the risks of miscouplings.

IPC 8 full level

F01L 13/00 (2006.01); **F01L 1/14** (2006.01); **F01L 1/24** (2006.01); **F01L 1/46** (2006.01)

CPC (source: EP US)

F01L 1/143 (2013.01 - EP US); **F01L 1/46** (2013.01 - EP US); **F01L 13/0005** (2013.01 - EP US); **F01L 13/0036** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

WO 03060294 A1 20030724; AT E388307 T1 20080315; AU 2003235625 A1 20030730; DE 10201805 A1 20030731; DE 50309312 D1 20080417; EP 1466082 A1 20041013; EP 1466082 B1 20080305; US 2005028776 A1 20050210; US 7059287 B2 20060613

DOCDB simple family (application)

EP 0300158 W 20030110; AT 03729438 T 20030110; AU 2003235625 A 20030110; DE 10201805 A 20020118; DE 50309312 T 20030110; EP 03729438 A 20030110; US 50177504 A 20040720