

Title (en)

CAMSHAFT, ESPECIALLY FOR AN INTERNAL COMBUSTION ENGINE OF A MOTOR VEHICLE, COMPRISING SHIFTABLE CAMS

Title (de)

NOCKENWELLE, INSBESONDERE EINES KRAFTFAHRZEUG-VERBRENNUNGSMOTORS, MIT SCHALTBAREN NOCKEN

Title (fr)

ARBRE A CAMES CONCU EN PARTICULIER POUR UN MOTEUR A COMBUSTION INTERNE D'UN VEHICULE AUTOMOBILE ET COMPORTANT DES CAMES COMMUTABLES

Publication

EP 1518042 B1 20081126 (DE)

Application

EP 04738567 A 20040526

Priority

- DE 2004001098 W 20040526
- DE 10325042 A 20030602

Abstract (en)

[origin: WO2004109068A1] Disclosed is a camshaft, especially for an internal combustion engine of a motor vehicle, comprising at least one cam that is provided with cam segments (2, 3) which can be displaced relative to each other. The aim of the invention is to create a compact camshaft structure while obtaining or ensuring good and stable guidance between the cam segments (2, 3) that can be displaced relative to each other. Said aim is achieved by placing the ends of the U-legs of the second cam segment (3), which has the shape of a horseshoe and is movable while the other cam segment (2) is connected in a fixed manner to the camshaft, entirely within the outer contour of the basic camshaft material located between the U-legs in the radially deployed position of the second cam segment (3), said U-legs resulting from the horseshoe shape of said cam segment (3) and extending in a free manner at the ends thereof.

IPC 8 full level

F01L 13/00 (2006.01); **F01L 1/08** (2006.01)

CPC (source: EP US)

F01L 1/08 (2013.01 - EP US); **F01L 13/0057** (2013.01 - EP US); **Y10T 29/49293** (2015.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 2004109068 A1 20041216; CN 100476165 C 20090408; CN 1774563 A 20060517; DE 112004000030 D2 20050512; DE 502004008517 D1 20090108; EP 1518042 A1 20050330; EP 1518042 B1 20081126; JP 2006526727 A 20061124; JP 4843484 B2 20111221; US 2006011161 A1 20060119; US 7069889 B2 20060704

DOCDB simple family (application)

DE 2004001098 W 20040526; CN 200480006995 A 20040526; DE 112004000030 T 20040526; DE 502004008517 T 20040526; EP 04738567 A 20040526; JP 2006508113 A 20040526; US 53627705 A 20050524