

Title (en)

VALVE TRAIN FOR AN INTERNAL COMBUSTION ENGINE AND CORRESPONDING INTERNAL COMBUSTION ENGINE

Title (de)

VENTILTRIEB FÜR EINE BRENNKRAFTMASCHINE SOWIE ENTSPRECHENDE BRENNKRAFTMASCHINE

Title (fr)

DISTRIBUTION À SOUPAPES POUR UN MOTEUR À COMBUSTION INTERNE ET MOTEUR À COMBUSTION INTERNE CORRESPONDANT

Publication

**EP 3221567 A1 20170927 (DE)**

Application

**EP 15795113 A 20151110**

Priority

- DE 102014017036 A 20141118
- EP 2015002247 W 20151110

Abstract (en)

[origin: WO2016078751A1] The invention relates to a valve train (2) for an internal combustion engine (1), comprising at least one main camshaft (4), on which at least one cam carrier having valve-actuating cams is provided, said cam carrier being rotationally fixed and capable of axial movement between at least two axial positions, wherein a shifting gate (3) is associated with the cam carrier for axial movement by means of an actuator (5), which shifting gate has two gate tracks (8, 9) on the perimeter of the shifting gate, which extend oppositely in the axial direction, are partially spaced apart from each other and lead into each other at a mouth point (12). According to the invention, at least one of the gate tracks (8, 9) has an axial projection (18, 19) toward a gate track wall (16, 17) bounding the other of the gate tracks (9, 8) in the axial direction. The invention further relates to an internal combustion engine (1).

IPC 8 full level

**F01L 13/00** (2006.01)

CPC (source: EP)

**F01L 13/0036** (2013.01); **F01L 2013/0052** (2013.01)

Citation (search report)

See references of WO 2016078751A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102014017036 B3 20160324**; EP 3221567 A1 20170927; EP 3221567 B1 20201007; JP 2018500492 A 20180111; JP 6462129 B2 20190130; WO 2016078751 A1 20160526

DOCDB simple family (application)

**DE 102014017036 A 20141118**; EP 15795113 A 20151110; EP 2015002247 W 20151110; JP 2017526834 A 20151110