

Title (en)

VARIABLE VALVE DRIVE FOR INTERNAL COMBUSTION ENGINE

Title (de)

VARIABLE VENTILSTEUERUNGSEINRICHTUNG FÜR BRENNKRAFTMASCHINEN

Title (fr)

DISPOSITIF DE COMMANDE DE SOUPAPE VARIABLE POUR MOTEUR A COMBUSTION INTERNE

Publication

**EP 3350421 A1 20180725 (DE)**

Application

**EP 16770876 A 20160919**

Priority

- AT 508012015 A 20150918
- AT 2016060066 W 20160919

Abstract (en)

[origin: WO2017045009A1] The invention relates to a variable valve control device (1) for internal combustion engines of the reciprocating-piston design having at least one gas exchange valve, which can be actuated by a camshaft (3) by means of a cam device (4) that is connected to the camshaft (3) for conjoint rotation and that has at least two different cam tracks (7, 8), which camshaft is supported in such a way that the camshaft can be rotated about a camshaft axis (2), wherein, selectively, one of the cam tracks (7, 8) can be activated and at least one other cam track (8, 7) can be deactivated by means of a control device (10), and wherein the control device (10) has at least one control element (11), which is guided axially, in particular within the camshaft, and by which at least one cam device (4) that is supported on the camshaft (3) for conjoint rotation but axially movably and that has at least two different cam tracks (7, 8) can be adjusted by means of at least one driving piece (12). In order to enable reliable and fail-safe variable valve actuation in the simplest possible manner, at least one blocking element (20) is provided for blocking and releasing the axial adjustment motion of the cam device (4), wherein the blocking element (20) has a control stud (21) fixedly connected to the cam device (4) and a - preferably stationary - control disk (22) arranged coaxial to the camshaft (3), wherein the control disk (22) has, in at least one angular region, at least one control opening (25) for receiving the control stud (21).

IPC 8 full level

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Citation (search report)

See references of WO 2017045009A1

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