

Title (en)

VARIABLE VALVE DRIVE OF A COMBUSTION PISTON ENGINE

Title (de)

VARIABLER VENTILTRIEB EINES VERBRENNUNGSKOLBENMOTORS

Title (fr)

COMMANDE DE SOUPAPE VARIABLE D'UN MOTEUR À COMBUSTION INTERNE À PISTON

Publication

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Application

EP 18702609 A 20180124

Priority

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- DE 2018100053 W 20180124

Abstract (en)

[origin: WO2018141332A1] The invention relates to a variable valve drive (1) of an internal combustion engine, comprising at least one functionally identical gas exchange valve per cylinder, the valve stroke of which is specified by at least one primary cam (7) and a secondary cam (8) of a camshaft (6) and can be selectively transmitted to at least one paired gas exchange valve by means of a switchable cam follower (10) which has a primary follower (14) and a secondary follower (19). Each of the coupling elements (17) of the switchable cam follower (10) is designed as a coupling bolt which is guided in a transverse bore (16) of the primary follower (14) in an axially movable manner and which can be moved into an opposite coupling bore (28) of the secondary follower against the restoring force of a spring element (18) by means of a switching bolt (25) which is axially movable in a transverse bore (24) of the secondary follower (19). The outer end (26) of each switching bolt protrudes out of the secondary follower, and each switching bolt is connected to a selector rod (34) at said end via a connection element (29), said selector rod being arranged parallel to the camshaft (6) and being longitudinally movable by means of a linear actuator (31).

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2018141332A1

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