

Title (en)

CONTROL DEVICE FOR A VALVE, PARTICULARLY A GAS EXCHANGE VALVE OF AN INTERNAL COMBUSTION ENGINE

Title (de)

STEUEREINRICHTUNG FÜR EIN VENTIL, INSBESONDERE EIN GASWECHSELVENTIL EINES VERBRENNUNGSMOTORS

Title (fr)

DISPOSITIF DE COMMANDE POUR UNE SOUPAPE, EN PARTICULIER POUR UNE SOUPAPE DE RENOUVELLEMENT DES GAZ D'UN MOTEUR À COMBUSTION INTERNE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2006007817A1] The aim of the invention is to enable in a valve lifting movements with valve elevation curves in a mechanically simple manner using a control device, said valve lifting movements consisting of a main valve lift curve, the embodiment of which is variable, and at least one variable additional valve elevation curve. The phase position between the main and additional valve elevation curves can also be modified. A control device is thus provided in order to actuate at least one valve, particularly a gas exchange valve of an internal combustion engine, wherein: the valve lift movement of the at least one valve (6) is produced by superimposing two synchronously rotating cam profiles which mechanically act upon a lift actuating element (4), i.e. a first cam profile (1) and a second cam profile (2) and can be modified by phase displacement between said two cam profiles (1,2) and the two cam profiles (1,2) are provided with specially formed areas enabling at least one additional valve lift (ZV) to be generated by means of the superimposition thereof at the level of at least one of the two cam profiles (1,2) as a whole, respectively via the main valve lift movement (HV) produced by means of a full rotation of said cam profiles (1,2). The at least one additional valve elevation curve (ZV) can be modified in form and allocation to the main valve elevation curve (HV) by phase displacements between the two cam profiles (1,2).

IPC 8 full level

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