

Title (en)

DEVICE FOR VARIABLY ADJUSTING CONTROL TIMES OF GAS EXCHANGE VALVES OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VORRICHTUNG ZUR VARIABLEN EINSTELLUNG DER STEUERZEITEN VON GASWECHSELVENTILEN EINER BRENNKRAFTMASCHINE

Title (fr)

DISPOSITIF PERMETTANT LE REGLAGE VARIABLE DES TEMPS DE COMMANDE DE SOUPAPES D'ECHANGE DES GAZ D'UN MOTEUR A COMBUSTION INTERNE

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Application

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Abstract (en)

[origin: WO2006108494A1] The invention relates to device for variably adjusting control times of gas exchange valves of an internal combustion engine, comprising an internal rotor (3) and an external rotor (4), whereby one of the components is rigidly connected to the camshaft (2) and the other component is drivingly connected to the crank shaft. The external rotor (4) is rotationally mounted on the internal rotor (3). Also, at least one hydraulic chamber, which is defined by lateral walls (5, 6) and the internal rotor (3), is formed on the external rotor (4). The internal rotor (3) comprises a hub part (3b) and at least one wing (3a), whereby said wing (3a) of the internal rotor (3) extends into each hydraulic chamber (7) and separates said hydraulic chambers into two counter-working pressure chambers (10, 11). A groove (8), wherein a sealing strip is arranged, is formed on one of the surfaces of the internal rotor (3) or the external rotor (4), which is oriented towards the other component. A spring element (13) is arranged between a groove base (12) of the groove (8) and the sealing strip (9), the spring element pushes the sealing strip (9) in the direction of an opposite surface of the other component. According to the invention, the spring element (13) is introduced at the same time as the sealing element.

IPC 8 full level

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