

Title (en)
DEVICE FOR THE VARIABLE ADJUSTING OF THE CONTROL TIMING OF GAS EXCHANGE VALVES OF AN INTERNAL COMBUSTION ENGINE

Title (de)
VORRICHTUNG ZUR VARIABLEN EINSTELLUNG DER STEUERZEITEN VON GASWECHSELVENTILEN EINER BRENNKRAFTMASCHINE

Title (fr)
DISPOSITIF POUR LE RÉGLAGE VARIABLE DES TEMPS DE COMMANDE DE SOUPAPES D'ÉCHANGES GAZEUX D'UN MOTEUR À COMBUSTION INTERNE

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Application
EP 10728151 A 20100615

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Abstract (en)
[origin: WO2011012370A2] The invention relates to a device (11) for the variable adjusting of the control timing of gas exchange valves (9, 10) of an internal combustion engine (1) with a drive element (13), an output element (14), at least one pressure chamber (23) and a volume accumulator (31), wherein the output element (14) is arranged in a rotatable manner to the drive element (13), and the pressure chamber (23) is bordered at least partially by these components (13, 14), wherein a phase position between the output element (14) and the drive element (13) can be variably adjusted by the pressure medium supply to or pressure medium removal from the pressure chamber (23), wherein pressure medium lines (25a, b, p) are provided by means of which the pressure medium can be supplied to the pressure chamber (23) or removed therefrom, wherein the volume accumulator (31) has at least one housing (32) and a displaceable separating element (33) therein that separates a supply chamber (34), which connects to one of the pressure medium lines (25a, b, p), from a ventilated complementary space (35), wherein the separating element (33) is displaced in the housing (32) by the admission of the pressure medium in the supply chamber (34) in such a way that the volume of the supply chamber (34) increases at the expense of the complementary space (35).

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