

Title (en)

DEVICE FOR MODIFYING THE TIMING OF GAS EXCHANGE VALVES IN AN INTERNAL COMBUSTION ENGINE

Title (de)

VORRICHTUNG ZUR VERÄNDERUNG DER STEUERZEITEN VON GASWECHSELVENTILEN EINER BRENNKRAFTMASCHINE

Title (fr)

DISPOSITIF POUR MODIFIER LA DISTRIBUTION DE SOUPAPES D'ECHANGE DE GAZ D'UN MOTEUR A COMBUSTION INTERNE

Publication

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Application

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Abstract (en)

[origin: WO2006039966A1] The invention relates to a device (101) for modifying the timing of gas exchange valves in an internal combustion engine using a hydraulic regulator (102) and a control valve (103). The inventive device (101) is equipped with a central-position locking mechanism for the hydraulic regulator (102). According to the invention, if a controller (112), which regulates the control valve (103), malfunctions, the hydraulic regulator (102) is locked in the central position until the controller (112) is repaired. In addition, the inventive device (101) permits the internal combustion engine to be started in a locked central position, without a displaceable element (105) of the hydraulic regulator (102) striking a lateral wall of a pressure chamber (104) during said start procedure. The invention also relates to a method for bringing the hydraulic regulator (102) into a locked position and maintaining said position for a new start-up of the internal combustion engine in a locked central position.

IPC 8 full level

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