

Title (en)
VARIABLE VALVE-STROKE CONTROLLER

Title (de)
VARIABLE HUBVENTILSTEUERUNG

Title (fr)
COMMANDE VARIABLE DE COURSE DE SOUPAPE

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Abstract (en)
[origin: WO03008772A1] The invention relates to mechanical, variable valve-stroke controllers, which are used for individual valves or groups of valves to set the valve stroke in a continuously variable manner from a maximal length to a constant closed state and to simultaneously modify the opening duration of the valves, during the operation of an internal combustion engine. According to the invention, the valves are actuated by valve levers, which are themselves driven by an elbow lever, the modification to the position of said valve levers altering the stroke and the opening duration of the valves. The valve-stroke controller allows an actuation of the valves in the lower speed ranges, which obtains for each set, reduced valve stroke, an angle of rotation that has been reduced accordingly. Fig. 1 illustrates a valve-stroke controller comprising an elbow lever (2) that is driven laterally by a cam (17) by means of a cam roller (3). During the setting of the valve stroke, the motion of a planetary gear is such that the roller (9) of the valve lever (8), which actuates the valve (1), acts as a sun wheel, the elbow lever (2) acts as a planet wheel and the setting lever (5) acts as a planet carrier.

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