

Title (en)  
VALVE MECHANISM FOR AN INTERNAL COMBUSTION ENGINE

Title (de)  
VENTILTRIEB FÜR EINE BRENNKRAFTMASCHINE

Title (fr)  
DISTRIBUTION DANS MOTEUR A COMBUSTION INTERNE

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Application  
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Abstract (en)  
[origin: WO03023197A1] The invention relates to a valve mechanism for an internal combustion engine, comprising at least two inlet and/or outlet valves (EV1, EV2, AV1, AV2) per cylinder which can be activated by the inlet and/or outlet camshaft (8); in addition to lift transmission elements (4) which are arranged between the camshafts (6,7) of the inlet and/or outlet camshaft, and means for altering the valve lift of the inlet and/or outlet valves. At least two inlet valves and/or two outlet valves per cylinder cooperate with at least two partial cams (24, 25, 26) having two different lift curves, and the lift transmission elements (4) of the gas exchange valves are provided with at least two lift elements (22, 23) which respectively cooperate with the partial cams (24, 25, 26) and with the hydraulic supply lines for switching purposes. According to the invention, the supply lines (34, 44) for switching a first inlet or outlet valve (EV1, AV2) are separate from the supply lines (40, 48) for switching a second inlet or outlet valve (EV2, AV2), whereby a first inlet or outlet valve (EV1, AV1) can be switched independently from the second inlet or outlet valve (EV2, AV2). As a result two-step valve switching can be achieved in a simple manner.

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