

Title (en)  
VALVE CONTROL SYSTEM FOR AN INTERNAL COMBUSTION ENGINE WHICH CAN BE SWITCHED INTO DRIVE OR BRAKE MODE

Title (de)  
VENTILSTEUERUNG EINER ALS ANTRIEB ODER BREMSE SCHALTBAREN BRENNKRAFTMASCHINE

Title (fr)  
SYSTEME DE COMMANDE DE SOUPAPES D'UN MOTEUR A COMBUSTION POUVANT ETRE COMMUTE EN MODE ENTRAINEMENT OU EN MODE FREINAGE

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Application  
**EP 98943670 A 19980706**

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Abstract (en)  
[origin: DE19733322A1] The invention relates to a valve control system for an internal combustion engine which can be switched into a drive or brake mode, comprising both a brake-camshaft and a main camshaft acting upon the exhaust valves. The aim of the invention is to adapt engine braking power to various requirements. To achieve this the two camshafts are arranged in such a way as to enable phase displacement in relation to each other using a phase adjustment mechanism. When only a low braking power is required, decompression occurs clearly before or only after top dead centre so that part of the compression work does not need to be conducted in the first case and is recovered by means of expansion in the second case.

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