

Title (en)
VALVE CONTROL MECHANISM

Title (de)
VENTILSTEUERUNG

Title (fr)
MECANISME DE COMMANDE DE SOUPAPE

Publication
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Application
EP 01912014 A 20010321

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Abstract (en)
[origin: WO0171167A1] An internal combustion engine is disclosed. The engine includes a camshaft carrying a plurality of cams, the camshaft being mounted in a cylinder head or cam carrier; and a valve control mechanism comprising: (a) first means for effecting a limited degree of axial movement of the camshaft; and (b) second means for varying the rotational phase of said camshaft, characterised in that said first and second means comprise a pair of concentric pistons housed within a cylinder and under independent hydraulic control, whereby the concentric pistons can be moved independently of one another. This arrangement enables the valve lift, duration and timing to be varied when the camshaft carries 3-D profiled cam lobes (i.e. valve lift varies tangentially with cam angle in end view and varies along the camshaft linearly at each cam angle in side view).

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