

Title (en)
VARIABLE VALVE TIMING MECHANISM

Title (de)
VARIABLE VENTILSTEUERVORRICHTUNG

Title (fr)
MECANISME DE DISTRIBUTION A PROGRAMME VARIABLE

Publication
EP 0739444 B1 19980617 (EN)

Application
EP 95905179 A 19941215

Priority
• GB 9402797 W 19941215
• GB 9400748 A 19940115

Abstract (en)
[origin: GB2285671A] A torque transmitting mechanism permitting a limited degree of change in the phase of a camshaft 12 comprises concentric drive 14 and driven (10, Fig. 2) members connected respectively to a crankshaft 12 and a camshaft (not shown), at least one lever 20 being pivotally supported on one of the members (10, Fig. 2) and having a force transmitting surface that is biased by a spring 22 to remain in contact at all times with a reaction surface 24 on the other member. The position of the point of contact between the two surfaces is dependent upon the relative angular position of the drive and driven members and moves progressively to vary the mechanical advantage of the lever as the shafts rotate relative to one another under the action of the torque reversals on the camshaft 12. There may be two levers 20 acting on two reaction surfaces 24. The reaction surface(s) may be profiled so that the lever surface rolls without slipping. Means (30, Fig. 2) for applying a variable drag between drive 14 and driven (10, Fig. 2) members may be provided and may comprise an electromagnetic clutch (30, Fig. 2) and a position sensor (40, Fig. 2) permitting closed loop control of the drag. <IMAGE>

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