

Title (en)

Rocker arm device for simultaneous control of valve lift and relative timing in a combustion engine

Title (de)

Schlepphebelanordnung für gleichzeitige Ventil-Hub und Winkelsteuerung in einer Brennkraftmaschine

Title (fr)

Culbuteur pour le contrôle simultané de la levée de soupape et de son calage dans un moteur à combustion interne

Publication

**EP 0995885 A2 20000426 (EN)**

Application

**EP 99308287 A 19991020**

Priority

IT MI982244 A 19981020

Abstract (en)

A valve control system including a valve actuating camshaft (A), having a high lift cam (B) and a low lift cam (C), and an outer rocker arm (2) engaging the high lift cam, and an inner rocker arm (3) engaging the low lift cam. The ends of the rocker arms adjacent the engine poppet valve (V) are fixed to each other by a connector pin (37). The system includes a latching mechanism disposed at the ends of the rocker arms opposite the connector pin (37). Latching of the rocker arms is accomplished by a compound pin (8) moved between latched (FIG. 14A) and unlatched (FIG. 14B) conditions in response to movement of an actuator (9). The system also includes a rocker ratio varying device, such that, during operation in the low lift mode, the lift can be gradually increased as the engine speed increases. <IMAGE>

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CPC (source: EP)

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Cited by

EP1923546A4; CN112585337A; EP1533486A4; CN110023594A; DE10060890A1; DE10060890C2; US7779797B2; US8033260B2; US6752107B2; WO2017134062A1; WO2019008184A1; WO2009098047A1; US7431000B2; US11566544B2

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