

Title (en)

A mechanism for suspending operations of valves and other components of internal combustion engines or like machines.

Title (de)

Eine Vorrichtung zur Abschaltung von Ventilen und anderen Teilen bei Brennkraftmaschinen oder derartigen Maschinen.

Title (fr)

Un mécanisme pour suspendre le fonctionnement de soupapes et autres composants de moteurs à combustion interne ou de machines du même genre.

Publication

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Application

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Priority

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Abstract (en)

The improved internal combustion engine in one embodiment operates more efficiently under partial load conditions by alternating between the active and passive operating modes, the latter characterized by cylinder decompression by exhaust valves opening and charge elimination by suction valves closing throughout all strokes. Smooth change in operating modes is possible at very high speeds; by synchronous shifting of a mode camshaft (4) rotating at one eighth of the camshaft (2) speed, to and from a transient axial position where it sequentially toggles auxiliary cams (3) about valve rocker pivots (24) to change rocker geometry while rocker operated devices are inoperative in the cycle. Other embodiments of the invention provide for dynamic engine braking, simpler fuel injection, and selective operations with other engines or motors. Use of this invention with an earlier invention, described in European Patent Application 89104536.1, which provides a mechanism for elimination of piston movements, better achieves the common objects of both the inventions. <IMAGE>

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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WO9947794A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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