

Title (en)
Valve control of an internal combustion engine

Title (de)
Ventiltrieb einer Brennkraftmaschine

Title (fr)
Commande de soupape d'un moteur à combustion interne

Publication
EP 0798451 A1 19971001 (DE)

Application
EP 97102494 A 19970215

Priority
DE 19611641 A 19960325

Abstract (en)
The valves of the engine are operated by one of a number of cams (4a to 4c) which are integral with a sleeve (5) and which are located next to one another. The sleeve is connected to the camshaft (6) by e.g. splines so that it rotates with the shaft but can be moved axially. The sleeve is moved axially by rods (15,18), which can be fed-in radially towards the camshaft, and which engage with axial cam faces (9,10) on the endfaces of the sleeve. The sleeve is positioned on the camshaft by a spring-loaded ball (23) which engages with grooves in the sleeve bore.

Abstract (de)
Der erfindungsgemäße Ventiltrieb einer Brennkraftmaschine ermöglicht die Betätigung eines Gaswechselventils (1) mit mehreren unterschiedlichen Hubkurven. Dazu ist auf der Nockenwelle (6) ein Nocken (5) mit mehreren Nockenbahnen (4a,4b,4c) drehfest aber axial verschieblich gelagert. Dieser Nocken (5) weist eine Hubkontur (9,10) auf, in die ein Betätigungselement eingreift (15,16) und somit eine axiale Verschiebung des Nockens (5) erzeugt, wobei ein Umschalten von einer zu einer anderen Nockenbahn (4a,4b,4c) erfolgt. <IMAGE>

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F01L 13/00

IPC 8 full level
F01L 1/053 (2006.01); **F01L 1/344** (2006.01); **F01L 13/00** (2006.01)

CPC (source: EP KR)
F01L 1/053 (2013.01 - EP KR); **F01L 1/34413** (2013.01 - EP); **F01L 13/0036** (2013.01 - EP); **F01L 2013/0052** (2013.01 - EP); **F01L 2305/00** (2020.05 - EP)

Citation (applicant)
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Citation (search report)
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• [X] EP 0579592 A1 19940119 - AVL VERBRENNUNGSKRAFT MESSTECH [AT]

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