

Title (en)

Variable valve operating device for an internal combustion engine

Title (de)

Vorrichtung zur variablen Ventilsteuerung für eine Brennkraftmaschine

Title (fr)

Dispositif de commande variable des soupapes d'un moteur à combustion interne

Publication

**EP 0909881 A3 19990609 (DE)**

Application

**EP 98117123 A 19980910**

Priority

DE 19745716 A 19971016

Abstract (en)

[origin: EP0909881A2] Seen in the longitudinal axis direction (12) of a camshaft (2) having inlet valve opening cams (4a, 4b) and exhaust control cams (6), an inlet opening cam is positioned on either side of the exhaust cam. Two inlet closing cams (5a, 5b) are provided on a second camshaft (3) parallel to the first. Exhaust cams are in the plane of movement of the exhaust transmission levers (10), which forms a symmetry plane for the valve gear. Inlet (9) and exhaust transmission levers are on a common shaft (27) and inlet levers are U-shaped.

IPC 1-7

**F01L 13/00**

IPC 8 full level

**F01L 1/053** (2006.01); **F01L 1/26** (2006.01); **F01L 13/00** (2006.01)

CPC (source: EP US)

**F01L 1/053** (2013.01 - EP US); **F01L 1/26** (2013.01 - EP US); **F01L 13/0047** (2013.01 - EP US)

Citation (search report)

- [DA] DE 19600536 A1 19970710 - META MOTOREN ENERGIETECH [DE]
- [A] DE 4322480 A1 19950112 - META MOTOREN ENERGIETECH [DE]

Cited by

EP1050669A3; WO2007138354A1; US8113158B2

Designated contracting state (EPC)

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**EP 0909881 A2 19990421**; **EP 0909881 A3 19990609**; DE 19745716 A1 19990422; US 6009842 A 20000104

DOCDB simple family (application)

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