

Title (en)

VALVE OPERATING APPARATUS IN AN INTERNAL COMBUSTION ENGINE

Publication

EP 0293209 B1 19911127 (EN)

Application

EP 88304802 A 19880526

Priority

JP 12717887 A 19870526

Abstract (en)

[origin: EP0293209A1] Valve operating apparatus is disclosed in which intake or exhaust valves (1a,1b) of an internal combustion engine are operated by rocker arms (5,6,7) driven by cams (3a,3b,4) having different cam profiles, and a hydraulically operated coupling mechanism (4) for selectively connecting or disconnecting adjacent rocker arms to vary the operation of the valves under different engine operating conditions. Sensing means in the form of a piston displacement detecting device is included in the apparatus to monitor its operating condition.

IPC 1-7

F01L 1/26; **F01L 13/00**; **F01L 31/22**

IPC 8 full level

F01L 1/26 (2006.01); **F02F 1/24** (2006.01)

CPC (source: EP)

F01L 1/267 (2013.01); **F02F 2001/247** (2013.01)

Cited by

US5287830A; EP0364069A1; US5351662A; DE102008027649A1; US5549081A; US5406835A; US5386806A; US5419290A; GB2271809A; GB2271809B

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0293209 A1 19881130; **EP 0293209 B1 19911127**; DE 3866430 D1 19920109

DOCDB simple family (application)

EP 88304802 A 19880526; DE 3866430 T 19880526