

Title (en)

Improved timing system for internal combustion engines with high specific power.

Title (de)

Steuerzeitvorrichtung für Brennkraftmaschine mit hoher spezifischer Leistung.

Title (fr)

Dispositif de distribution pour moteur à combustion interne à puissance spécifique élevée.

Publication

**EP 0313140 A1 19890426 (EN)**

Application

**EP 88202217 A 19881006**

Priority

IT 2239487 A 19871023

Abstract (en)

A control device for valves for internal combustion engines (10) in which the two groups (11) of valves, one for intake (10) and one for exhaust (11) are controlled each by a camshaft (15, 17) and in which said camshaft (15, 17) directly controls through an interposed guide socket (14, 18) the homologous valves aligned thereunder and, through a "finger" rocker arm (20), those outside said alignment. Said valves (10, 11) (both intake and exhaust) are advantageously arranged equidistant from the centre of the combustion chamber and with the axes of the homologous valves parallel. The cams (24) of said camshafts (17) which control said "finger" rocker arms (20) have a lift reduced by one rho as compared with the cams (19) which directly control the remaining valves while the transmission ratio of said "finger" rocker arms (20) is 1/rho so as to cause all the homologous valves to open and close in unison and with the same amplitude of movement.

IPC 1-7

**F01L 1/26**

IPC 8 full level

**F01L 1/26** (2006.01)

CPC (source: EP)

**F01L 1/265** (2013.01); **F02B 2275/18** (2013.01)

Citation (search report)

- [X] US 4637356 A 19870120 - KURODA YUZO [JP]
- [X] US 4667636 A 19870526 - OISHI KIYOHICO [JP], et al

Cited by

EP0541131A1; EP0420139A1; EP0412064A1

Designated contracting state (EPC)

DE ES FR GB SE

DOCDB simple family (publication)

**EP 0313140 A1 19890426**; IT 1222976 B 19900912; IT 8722394 A0 19871023; JP H01134008 A 19890526

DOCDB simple family (application)

**EP 88202217 A 19881006**; IT 2239487 A 19871023; JP 26168988 A 19881019