

Title (en)

BRAKING GEAR FOR VALVE CONTROLLED INTERNAL COMBUSTION ENGINES

Publication

EP 0033372 B1 19831221 (DE)

Application

EP 80107377 A 19801126

Priority

DE 3003566 A 19800201

Abstract (en)

[origin: US4378765A] A braking device for a valve controlled internal combustion engine for motor vehicles. Each cylinder has at least one exhaust valve, which is controllable for opening thereof by a camshaft having a main cam for moving operation and a supplementary cam which additionally becomes effective during braking operation. The supplementary cam is arranged in the plane of the main cam, and is capable of being lowered in the camshaft. The cam peak of the supplemental cam is arranged from 160 DEG to 200 DEG ahead of the main cam peak in the direction of rotation of the camshaft. The sides of the supplementary cam are embodied in such a way that upon reaching the upper dead center point, the exhaust valve associated therewith closes. The supplementary cam is capable of being actuated by a control shaft arranged in the rotational axis of the camshaft.

IPC 1-7

F01L 13/06; **F02D 13/04**

IPC 8 full level

F01L 13/06 (2006.01); **F02D 13/04** (2006.01)

CPC (source: EP US)

F01L 1/08 (2013.01 - EP US); **F01L 13/06** (2013.01 - EP US); **F02D 13/04** (2013.01 - EP US)

Citation (examination)

- US 1439798 A 19221226 - CRANE HENRY M
- GB 371519 A 19320428 - ICI LTD, et al
- FR 2298000 A1 19760813 - BERNARD MOTEURS [FR]
- FR 1461817 A 19661209 - TECUMSEH PRODUCTS CO
- DE 1526485 A1 19700319 - JACOBS MFG CO

Cited by

DE10038916B4; DE3920528C1; GB2291157A; GB2291157B

Designated contracting state (EPC)

CH FR GB LI NL SE

DOCDB simple family (publication)

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