

Title (en)
Internal combustion engine

Title (de)
Brennkraftmaschine

Title (fr)
Moteur à combustion interne

Publication
EP 0691457 A3 19960306 (EN)

Application
EP 95114828 A 19910904

Priority
• EP 91114944 A 19910904
• JP 23526890 A 19900904

Abstract (en)
[origin: EP0474217A2] The present invention relates to a self-operating mechanism for a 4-cycle internal combustion engine comprising more than two intake valves and a plurality of exhaust valves, specifically to a 5-valve engine. In order to provide sufficient space for the cooling jacket on the exhaust side of the cylinder head and/or increasing the valve lift of the exhaust valves without increasing the total height of the engine, the valve spring retainers of the exhaust valves together with the upper ends of the associated exhaust valve springs are accommodated inside the exhaust valve lifters, respectively, while the valve spring retainers of the intake valves are disposed adjacent to a lower end of the associated intake valve lifters. <IMAGE>

IPC 1-7
F01L 1/26; **F01L 1/14**; **F01L 1/04**; **F01L 1/02**; **F01L 3/10**; **F02F 1/38**; **F02F 7/00**; **F02F 1/42**

IPC 8 full level
F01L 1/02 (2006.01); **F01L 1/04** (2006.01); **F01L 1/14** (2006.01); **F01L 1/26** (2006.01); **F01L 3/10** (2006.01); **F02B 75/22** (2006.01); **F02F 1/42** (2006.01); **F02F 7/00** (2006.01); **F02B 1/04** (2006.01); **F02B 75/02** (2006.01); **F02F 1/24** (2006.01)

CPC (source: EP)
F01L 1/02 (2013.01); **F01L 1/022** (2013.01); **F01L 1/024** (2013.01); **F01L 1/026** (2013.01); **F01L 1/04** (2013.01); **F01L 1/143** (2013.01); **F01L 1/265** (2013.01); **F01L 3/10** (2013.01); **F02B 75/22** (2013.01); **F02F 1/4221** (2013.01); **F02F 7/0012** (2013.01); **F01L 2001/0537** (2013.01); **F02B 1/04** (2013.01); **F02B 2075/027** (2013.01); **F02B 2275/18** (2013.01); **F02F 2001/245** (2013.01); **F02F 2200/06** (2013.01)

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• [A] PATENT ABSTRACTS OF JAPAN vol. 8, no. 195 (M - 323) 7 September 1984 (1984-09-07)
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• [A] PATENT ABSTRACTS OF JAPAN vol. 14, no. 355 (M - 1004) 31 July 1990 (1990-07-31)

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0474217 A2 19920311; **EP 0474217 A3 19921125**; **EP 0474217 B1 19960724**; DE 69121030 D1 19960829; DE 69121030 T2 19961212; DE 69131403 D1 19990805; DE 69131403 T2 19991028; EP 0691457 A2 19960110; EP 0691457 A3 19960306; EP 0691457 B1 19990630; JP 2950953 B2 19990920; JP H04116209 A 19920416

DOCDB simple family (application)
EP 91114944 A 19910904; DE 69121030 T 19910904; DE 69131403 T 19910904; EP 95114828 A 19910904; JP 23526890 A 19900904