

Title (en)
Internal combustion engine

Title (de)
Brennkraftmaschine mit innerer Verbrennung

Title (fr)
Moteur à combustion interne

Publication
EP 1375843 B1 20040428 (DE)

Application
EP 02450145 A 20020628

Priority
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Abstract (en)
[origin: EP1375843A1] A first cam (14) moves a first rocker (12) to push down a first piston (10) in a cylinder (8) at an angle to the valve stem (1). There is a similar arrangement of second cam (15), second rocker arm (13), and second piston (11) in second cylinder (9). The rocker arms have a common pivot (18), and a projection (19) on the first rocker arm may engage the second when the second cam is out of action. The oil in both cylinders can push down a third piston (5) with a piston rod (6) pressing on top of the valve stem of a normal poppet valve. Oil channels (20,22) and a control valve (21) admit oil to make up for leakage from the system.

IPC 1-7
F01L 9/02; F01L 13/00; F01L 1/46; F01L 1/18

IPC 8 full level
F01L 1/08 (2006.01); **F01L 1/18** (2006.01); **F01L 1/34** (2006.01); **F01L 1/46** (2006.01); **F01L 9/10** (2021.01); **F01L 9/11** (2021.01); **F01L 13/00** (2006.01)

CPC (source: EP)
F01L 1/08 (2013.01); **F01L 1/181** (2013.01); **F01L 1/34** (2013.01); **F01L 1/46** (2013.01); **F01L 9/10** (2021.01); **F01L 9/11** (2021.01); **F01L 13/0005** (2013.01); **F01L 13/0047** (2013.01)

Cited by
AT500600B1; EP2574746A1; EP3184761A1; JP2017115852A; US10364712B2; US7685977B2; US8973540B2; EP1555398A1; FR2986558A1; KR20140120334A; WO2006000004A3; WO2013114041A1; US6981476B2; US9181823B2

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