

Title (en)
Internal combustion engine

Title (de)
Brennkraftmaschine

Title (fr)
Moteur à combustion interne

Publication
EP 0638707 B1 19970212 (EN)

Application
EP 94112110 A 19940803

Priority
• JP 10840694 A 19940523
• JP 21105093 A 19930804

Abstract (en)
[origin: EP0638707A1] [OBJECT] An engine brake device, which serves during engine braking to ensure a braking force by opening an exhaust valve of a cylinder near a top dead center in a compression stroke to discharge the compressed air, is utilized to provide an internal combustion engine which can attain exhaust gas recirculation. [CONSTRUCTION] In an internal combustion engine, in addition to an engine-braking master piston 2a for a cylinder actuated by a rocker arm 19a which in turn is actuated by a push rod 1a of another cylinder, an exhaust-gas-recirculation mater piston 2b is provided which is actuated by a rocker arm 19b which in turn is actuated by a push rod 1b of the another cylinder to open an exhaust valve 8 in a suction stroke, thereby producing hydraulic pressure in the oil having been supplied to an oil passage 5. Further provided is an oil passage selector valve 11 for selectively switching over the hydraulic pressures produced by the engine-braking and exhaust-gas-recirculation master piston 2a to the oil passage. <IMAGE>

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F01L 13/06

IPC 8 full level
F02M 25/07 (2006.01); **F01L 13/06** (2006.01); **F02D 13/04** (2006.01); **F02B 75/02** (2006.01)

CPC (source: EP)
F01L 1/181 (2013.01); **F01L 13/065** (2013.01); **F02D 13/0273** (2013.01); **F02D 13/04** (2013.01); **F02M 26/01** (2016.02); **F02B 2075/027** (2013.01)

Cited by
CN111212960A; EP1013913A4; CN110998072A; US5794589A

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