

Title (en)

Internal combustion engine and method of operation

Title (de)

Brennkraftmaschine und Betriebsverfahren

Title (fr)

Moteur à combustion interne et procédé de fonctionnement

Publication

**EP 0874135 B1 20040818 (DE)**

Application

**EP 98105362 A 19980325**

Priority

DE 19717068 A 19970423

Abstract (en)

[origin: DE19717068C1] In thrust operation always at least one valve type, all gas inlet (2) or all gas outlet valves (3), are permanently closed. The other valve type, either the gas inlet or the gas outlet valves, in the area of a top dead centre of a piston movement remains open and in the area of a bottom dead centre is closed again, whilst the other gas exchange valves remain closed. One valve type in the area of the top dead centre and in the area of the bottom dead centre of the piston movement is shortly opened and then immediately closed. In thrust operation with one or more cylinders (8) all gas exchange valves are closed. The engine brake torque is regulated dependent upon a brake signal (9).

IPC 1-7

**F01D 13/00**; F02D 13/04

IPC 8 full level

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CPC (source: EP)

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DE102016216116A1; EP2297439A4; WO2010138108A1; US9624868B2

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**DE 19717068 C1 19980618**; DE 59811815 D1 20040923; EP 0874135 A2 19981028; EP 0874135 A3 19990512; EP 0874135 B1 20040818; ES 2226020 T3 20050316

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