

Title (en)

Eight-stroke internal combustion engine utilizing a slave cylinder

Title (de)

Acht-Takt-Brennkraftmaschine mittels einem Nehmerzylinder

Title (fr)

Moteur à combustion interne à huit-temps utilisant un cylindre secondaire

Publication

EP 1528234 B1 20070516 (EN)

Application

EP 03025319 A 20031103

Priority

EP 03025319 A 20031103

Abstract (en)

[origin: EP1528234A1] By the utilizing of a slave cylinder (16) working in coordination with a master cylinder (14), the slave cylinder receives expended atmospheric air and receives hot, partially un-burnt exhaust gases from the master cylinder to create a second power-stroke in the slave cylinder. With the two coordinating cylinders, the entire working process is from 0 to 810 degrees of revolution crankshaft. The master cylinder cycles work from 0 to 720 degrees of revolution and slave cylinder cycles work from 90 to 810 degrees of revolution. The master cylinder begins to intake air and fuel at 0 degree of revolution and slave cylinder begins to intake air at 90 degrees of revolution. There is an angle of 60-120 degrees differences between master and slave cylinder, where the slave cylinder is trailing the master.

IPC 8 full level

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CPC (source: EP)

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