

Title (en)
INTERNAL COMBUSTION ENGINE

Publication
EP 0214255 B1 19890426 (DE)

Application
EP 86901847 A 19860305

Priority
DE 3507766 A 19850305

Abstract (en)
[origin: WO8605232A1] This internal combustion engine which works in particular as a diesel engine comprises at least one cylinder and a piston which together with the cylinder delimits the combustion chamber, as well as an intake and exhaust valve arrangement, with the intake and exhaust valves being controlled in such a way that the combustion chamber undergoes consecutively and cyclically a compression phase, a working phase and a gas exchange phase. The gas exchange phase begins during the same piston stroke following the working phase. The exhaust valve is again closed before the end of the piston stroke which includes the working phase, whereas the intake valve continues to be open beyond the conclusion of the exhaust for this same piston stroke. In this way a complete combustion cycle can be carried through during a complete stroke including the back-and-forth movement of the piston, and at the same time a fresh charge can be sucked into the combustion chamber.

IPC 1-7
F01B 3/04; F02B 75/02

IPC 8 full level
F01B 3/04 (2006.01); **F01B 9/06** (2006.01); **F02B 75/02** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP)
F01B 3/04 (2013.01); **F01B 9/06** (2013.01); **F02B 75/02** (2013.01); **F02B 3/06** (2013.01); **F02B 2075/027** (2013.01)

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
WO 8605232 A1 19860912; DE 3507766 A1 19860911; DE 3663058 D1 19890601; EP 0214255 A1 19870318; EP 0214255 B1 19890426

DOCDB simple family (application)
EP 8600114 W 19860305; DE 3507766 A 19850305; DE 3663058 T 19860305; EP 86901847 A 19860305