

Title (en)  
TWO-STROKE LARGE DIESEL ENGINE

Title (de)  
ZWEITAKT-GROSSDIESELMOTOR

Title (fr)  
GROS MOTEUR DIESEL A DEUX TEMPS

Publication  
**EP 1828555 B1 20080730 (DE)**

Application  
**EP 05806781 A 20051110**

Priority  
EP 2005012019 W 20051110

Abstract (en)  
[origin: WO2007054109A1] In a two-stroke reciprocating piston engine having at least one cylinder (1) whose combustion chamber (3) has an outlet opening (4), which can be controlled by an outlet valve (5) which can be actuated by means of an actuating device which comprises a feed device and a return device, and on whose cylinder head (2) is placed a valve housing (9) which comprises an outlet duct (8), which adjoins the outlet opening (4) of the combustion chamber (3), and a guide sleeve (10), which engages through the upper wall of said valve housing (9), for a shank (7), which extends through the outlet duct (8), of the outlet valve (5), wherein the return device has a piston (15), which is attached to the valve shank (7), and a working space (17) which is delimited by said piston (15), is acted on with compressed air and is sealed off from an annular gap (11), which is present between the mutually facing guide faces of the guide sleeve (10) and valve shank (7), communicates with the outlet duct (8) and can be supplied with oil, by a sealing device which is arranged in the region of the upper, outlet-duct-remote end of the annular gap (11) and has at least one sealing ring (22), according to the invention, it is possible to provide a simple design and a service-free mode of operation in that, above the sealing ring (22), which faces towards the outlet duct (8), of the sealing device, an oil reservoir (24 and 31 and 36) is provided which can be filled with oil and is filled with oil at the upper side, which faces away from the outlet duct (8), of said sealing ring (22).

IPC 8 full level  
**F01L 1/46** (2006.01); **F01L 3/08** (2006.01); **F01L 9/10** (2021.01)

CPC (source: EP NO)  
**F01L 1/465** (2013.01 - EP NO); **F01L 3/08** (2013.01 - EP NO); **F01L 9/10** (2021.01 - EP NO)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2007054109 A1 20070518**; AT E403069 T1 20080815; CN 101268256 A 20080917; CN 101268256 B 20110316;  
DE 502005004913 D1 20080911; DK 1828555 T3 20081201; EP 1828555 A1 20070905; EP 1828555 B1 20080730; ES 2314729 T3 20090316;  
HK 1121794 A1 20090430; NO 20073258 L 20080808; NO 338690 B1 20161003; PL 1828555 T3 20090130

DOCDB simple family (application)  
**EP 2005012019 W 20051110**; AT 05806781 T 20051110; CN 200580047596 A 20051110; DE 502005004913 T 20051110;  
DK 05806781 T 20051110; EP 05806781 A 20051110; ES 05806781 T 20051110; HK 08113207 A 20081204; NO 20073258 A 20070625;  
PL 05806781 T 20051110