

Title (en)
FREE-PISTON ENGINE

Title (de)
FREIKOLBENMOTOR

Title (fr)
MOTEUR A PISTONS LIBRES

Publication
EP 1232335 B1 20040204 (DE)

Application
EP 00981162 A 20001106

Priority
• DE 0003886 W 20001106
• DE 19956547 A 19991124
• DE 10026728 A 20000530

Abstract (en)
[origin: WO0138706A1] A free-piston engine is disclosed, whose engine piston may have a force applied, in the compression direction, by means of an hydraulic cylinder, which can, by means of a switching valve, be connected to the pressure in a high pressure storage device or a low pressure storage device. According to the invention, a valve arrangement, with a control piston, is arranged between the hydraulic cylinder and the switching valve, whose control surface controls a connection with the high pressure reservoir device.

IPC 1-7
F02B 71/04; F01B 11/00

IPC 8 full level
F02B 71/00 (2006.01); **F01B 11/00** (2006.01); **F01B 11/04** (2006.01); **F01B 11/08** (2006.01); **F02B 71/04** (2006.01); **F02B 75/02** (2006.01)

CPC (source: EP)
F01B 11/007 (2013.01); **F02B 71/045** (2013.01); **F02B 2075/025** (2013.01)

Cited by
DE102007040361A1; CN104775901A; DE102007016517A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
WO 0138706 A1 20010531; EP 1232335 A1 20020821; EP 1232335 B1 20040204; JP 2003524727 A 20030819

DOCDB simple family (application)
DE 0003886 W 20001106; EP 00981162 A 20001106; JP 2001540026 A 20001106