

Title (en)
INTERNAL COMBUSTION ENGINE

Title (de)
VERBRENNUNGSKRAFTMASCHINE

Title (fr)
MOTEUR A COMBUSTION INTERNE

Publication
EP 1058646 A2 20001213 (DE)

Application
EP 99937912 A 19990301

Priority
• AT 9900052 W 19990301
• AT 36198 A 19980302
• AT 91098 A 19980527

Abstract (en)
[origin: WO9944886A2] The invention relates to an internal combustion engine with a combustion chamber (2,202) where fuel is combusted in an explosion cycle and a pump chamber connected thereto. Said pump chamber can be filled with fluid via an inlet. The pump fluid can be ejected from the chamber using the combustion gas formed during the explosion cycle. The pump chamber (1,201) is subdivided into a gas area (30, 230) and a fluid area (31,231) by means of a flexible diaphragm (3,203). In another embodiment of the combustion engine, a circuit is provided for the pump fluid and a turbine (134,260) driven by the pump fluid is arranged therein. An intermediate storage facility (130,280) is also provided and connected to the exit of the turbine (149, 265, 266). The intermediate storage facility (130,280) can be filled with liquid during the explosion cycle and can be emptied during the implosion cycle.

IPC 1-7
B63H 11/14; **F02B 75/36**; **F01B 19/02**; **F03B 3/00**; **F01P 9/00**

IPC 8 full level
B63H 11/14 (2006.01); **F01B 19/02** (2006.01); **F02B 47/02** (2006.01); **F02B 75/36** (2006.01); **F02F 7/00** (2006.01)

CPC (source: EP US)
B63H 11/14 (2013.01 - EP US); **F01B 19/02** (2013.01 - EP US); **F02B 47/02** (2013.01 - EP US); **F02B 75/36** (2013.01 - EP US); **F02F 7/0087** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)
See references of WO 9944886A2

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IT LI NL SE

DOCDB simple family (publication)
WO 9944886 A2 19990910; **WO 9944886 A3 19991111**; EP 1058646 A2 20001213; US 6460327 B1 20021008

DOCDB simple family (application)
AT 9900052 W 19990301; EP 99937912 A 19990301; US 65304300 A 20000901