

Title (en)
ROTARY PISTON INTERNAL COMBUSTION ENGINE

Title (de)
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Title (fr)
MOTEUR A COMBUSTION INTERNE A PISTON ROTATIF

Publication
EP 1339952 B1 20041006 (DE)

Application
EP 01993746 A 20011108

Priority
• DE 0104173 W 20011108
• DE 10055906 A 20001110
• DE 10119146 A 20010419

Abstract (en)
[origin: WO0238917A1] Known rotary piston internal combustion engines have distinct disadvantages such as a complex structure and do not use the gas pressure arising during combustion in an optimum manner. Disclosed is a rotary piston internal combustion engine comprising a housing (1), at least one working wheel (2) which can rotate about an axis of rotation (R) in the housing (1), at least one working piston (3) provided on the working wheel (2) and used to suction and compress air or a fuel-air mixture and to convert the gas pressure arising during combustion of a fuel-air mixture into mechanical energy, at least one counter wheel (4) having at least one working piston recess (5), a plurality of rotationally driven first air blades (6) which are used to pre-compress air or a fuel mixture, and at least one combustion chamber (7) used to combust a fuel-air mixture. According to the invention, the at least one combustion chamber (7), when in operation, is continuously formed anew between the working piston (3), the working wheel (2), counter wheel (4) and housing (1) and the first air blades form part of the working wheel (2) in a spoke-like manner, suctioning the fuel air mixture or the air during operation in a substantially parallel position with respect to the axis of rotation (R) of the working wheel by means of said working wheel (2).

IPC 1-7
F01C 1/20; **F01C 11/00**; **F01C 21/06**

IPC 8 full level
F01C 1/20 (2006.01); **F01C 11/00** (2006.01); **F01C 21/06** (2006.01)

CPC (source: EP US)
F01C 1/20 (2013.01 - EP US); **F01C 11/008** (2013.01 - EP US); **F01C 21/06** (2013.01 - EP US); **F02B 2053/005** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0238917 A1 20020516; AT E278868 T1 20041015; AU 1690502 A 20020521; AU 2002216905 B2 20050804; CA 2428565 A1 20020516; CA 2428565 C 20070828; DE 10194849 D2 20031204; DE 50104043 D1 20041111; EP 1339952 A1 20030903; EP 1339952 B1 20041006; US 2003159674 A1 20030828; US 6672274 B2 20040106

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DE 0104173 W 20011108; AT 01993746 T 20011108; AU 1690502 A 20011108; AU 2002216905 A 20011108; CA 2428565 A 20011108; DE 10194849 T 20011108; DE 50104043 T 20011108; EP 01993746 A 20011108; US 24981603 A 20030509