

Title (en)

Rotary engine having controller and transfer gears.

Title (de)

Rotierende Maschine mit Regelvorrichtung und Transmissionszahnräder.

Title (fr)

Moteur rotatif comprenant un dispositif de réglage et des roues dentées de transmission.

Publication

EP 0338177 A1 19891025 (EN)

Application

EP 88810246 A 19880418

Priority

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Abstract (en)

A rotary engine has a first ring-shaped floor portion connected to an inner shaft for rotation therewith and a second ring-shaped floor portion connected to an outer shaft for rotation therewith. The annular floor portions cooperate with an engine casing to define an annular chamber. A first pair of diametrically aligned pistons are positioned within the annular chamber and are connected to the first ring-shaped floor portion while a second pair of diametrically aligned pistons are positioned within the annular chamber and are connected to the second ring-shaped floor portion. The pistons cooperate to define a plurality of combustion chambers. Means are provided for causing combustion in the combustion chambers for imparting rotary motion to the inner and outer shafts. A first power transfer gear connected to the inner shaft transfers power to a drive shaft when the inner shaft is driven and a second power transfer gear connected to the outer shaft transfers power to the drive shaft when the outer shaft is driven. Unique piston seals, a controller for regulating the position of the pistons, and a novel lubrication system are also disclosed.

IPC 1-7

F01C 1/067; **F01C 1/077**

IPC 8 full level

F01C 1/067 (2006.01); **F02B 1/04** (2006.01)

CPC (source: EP)

F01C 1/067 (2013.01); **F02B 1/04** (2013.01); **F02B 2053/005** (2013.01)

Citation (search report)

- [Y] FR 2359964 A1 19780224 - ENGINOR AG [CH]
- [Y] FR 987932 A 19510821
- [A] DE 1551129 A1 19700115 - MOOREX IND INC
- [A] US 3397680 A 19680820 - GUIN JOEL B

Designated contracting state (EPC)

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