Title (en)

HYPOCYCLOID ROTARY INTERNAL COMBUSTION ENGINE

Title (de)

DREHBARER HYPOZYKLOID-VERBRENNUNGSMOTOR

Title (fr)

MOTEUR ROTATIF HYPOCYCLOIDE A COMBUSTION INTERNE

Publication

EP 1956188 A4 20120718 (EN)

Application

EP 06841702 A 20061123

Priority

- ES 2006000649 W 20061123
- ES 200503041 A 20051123

Abstract (en)

[origin: EP1956188A1] The invention relates to a hypocycloid rotary internal combustion engine which includes: a stator (Z) containing an internal lobed triangular, cavity (A, B, C) which defines an inner periphery (PI); and an internal rotor (D) which is configured to be driven in the internal cavity (A, B, C) and which is provided with (i) an outer continuous curvilinear periphery (PE) which is configured to slide along the inner periphery (PI) as the rotor (D) rotates in the stator (Z) and (ii) connection elements for connecting the internal rotor (D) to the crank (E) of a power output crankshaft. According to the invention, the inner periphery (PI) takes the form of a continuous curvilinear periphery, while the outer periphery (PE) is in permanent contact at a series of points with the inner periphery (PI) in order to define a portion of the internal cavity (A, B, C), the portion of the internal cavity (A, B, C) having a variable volume during the rotation of the rotor (D).

IPC 8 full level

F01C 1/10 (2006.01)

CPC (source: EP ES)

F01C 1/104 (2013.01 - EP ES)

Citation (search report)

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Designated contracting state (EPC)

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