

Title (en)
Endothermic engine with rotating pistons

Title (de)
Endothermischer Motor mit drehenden Kolben

Title (fr)
Moteur endothermique à pistons rotatifs

Publication
EP 1484474 B1 20060809 (EN)

Application
EP 03425350 A 20030603

Priority
EP 03425350 A 20030603

Abstract (en)
[origin: EP1484474A1] The endothermic 4-stroke rotating pistons engine comprises: a stator having an internal stator chamber provided with a fluid exhaust pipe and a fluid suction duct, a drive shaft traversing said chamber coaxially, and a rotor connected to the drive shaft and during its rotation having surfaces facing on parts of the surface of the stator chamber. <??>The engine is characterized in that the rotor comprises rods functioning as cranks, each with one end connected rigidly to the drive shaft and with the other end hinged to a respective prismatic shaped piston, said piston having one convex face surface ending on two opposite sides with two apical rectilinear edges parallel to the axis of the axis of the drive shaft, with said face always facing parts of the surface of the stator chamber during rotation of the drive shaft and displaying a curvature never greater than the curvature of said parts, and in that the stator chamber displays a cross section with ovoidal profile symmetrical with two axes perpendicular to each other and shaped to ensure for each position of the rotor a sealed contact with said apical edges. <IMAGE>

IPC 8 full level
F01C 1/44 (2006.01); **F01C 19/04** (2006.01); **F01C 21/10** (2006.01)

CPC (source: EP)
F01C 1/44 (2013.01); **F01C 19/04** (2013.01); **F01C 21/106** (2013.01)

Cited by
US2015275748A1; FR3005106A1; ITUB20153666A1; US10082028B2; DE102018010127A1; WO2014174103A1; WO2017046722A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1484474 A1 20041208; **EP 1484474 B1 20060809**; AT E335913 T1 20060915; DE 60307439 D1 20060921; DE 60307439 T2 20061130; ES 2269963 T3 20070401

DOCDB simple family (application)
EP 03425350 A 20030603; AT 03425350 T 20030603; DE 60307439 T 20030603; ES 03425350 T 20030603