

Title (en)
ROTARY PISTON ENGINE

Title (de)
ROTATIONSHUBKOLBENMASCHINE

Title (fr)
MOTEUR A PISTONS ALTERNATIFS ROTATIFS

Publication
EP 2032801 A1 20090311 (DE)

Application
EP 05825337 A 20051221

Priority
EP 2005057063 W 20051221

Abstract (en)
[origin: WO2007079766A1] Disclosed is a rotary piston engine comprising a rotor which is rotatably mounted in a housing and in which several pistons can be moved in a radial direction between an outer and an inner dead center. Each piston is provided with a piston rod which sits on a transversal shaft that is fastened to a sliding piece at each end, said sliding piece being movable within radial grooves in the rotor, on both sides of the piston. The external side of the sliding pieces which faces away from the piston is fitted with a pin that is accommodated in a star-shaped continuous guiding groove which is fixed to the housing. The guiding groove extends around an axis of rotation of the rotor and causes the pistons to move in a radial direction between the inner and outer dead centers.

IPC 8 full level
F01B 9/06 (2006.01); **F02B 57/08** (2006.01); **F02B 75/22** (2006.01); **F02B 75/32** (2006.01)

CPC (source: EP US)
F01B 9/06 (2013.01 - EP US); **F02B 57/08** (2013.01 - EP US); **F01B 13/068** (2013.01 - EP US); **F01B 2009/063** (2013.01 - EP US); **F01B 2009/065** (2013.01 - EP US); **F01B 2009/066** (2013.01 - EP US); **F01B 2009/068** (2013.01 - EP US)

Citation (search report)
See references of WO 2007079766A1

Citation (examination)
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• US 1122972 A 19141229 - MAYE EDWARD [US]
• US 1528164 A 19250303 - NORDWICK HENRY A
• US 1157811 A 19151026 - SHANNON LEON T [US]
• US 4653438 A 19870331 - RUSSELL ROBERT L [US]
• GB 1224163 A 19710303 - WILLOW RADIAL ENGINES LTD

Designated contracting state (EPC)
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Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
WO 2007079766 A1 20070719; AR 058612 A1 20080213; BR PI0520762 A2 20090526; CA 2634854 A1 20070719; CN 101371006 A 20090218; EP 2032801 A1 20090311; IL 192385 A0 20081229; MX 2008008133 A 20090112; SA 07280112 B1 20110622; US 2009266316 A1 20091029; US 8316817 B2 20121127

DOCDB simple family (application)
EP 2005057063 W 20051221; AR P060105718 A 20061221; BR PI0520762 A 20051221; CA 2634854 A 20051221; CN 200580052556 A 20051221; EP 05825337 A 20051221; IL 19238508 A 20080622; MX 2008008133 A 20051221; SA 07280112 A 20070319; US 15886009 A 20090319