

Title (en)
ENGINE HAVING ROTARY PISTONS

Title (de)
DREHKOLBENMASCHINE

Title (fr)
MOTEUR À PISTONS ROTATIFS

Publication
EP 2486239 A2 20120815 (FR)

Application
EP 10776781 A 20101004

Priority
• FR 0956912 A 20091005
• FR 2010052087 W 20101004

Abstract (en)
[origin: WO2011042648A2] The present invention relates to a mechanism (1) having rotary pistons (21), said mechanism comprising an outer enclosure (2) forming a stator in which a rotary assembly (20) forming a rotor moves, the rotary assembly (20) including: a plurality of pistons (21) forming a hinged polygon, each piston (21) defining a positive-displacement chamber (35) with the enclosure (2), and first guide means (27, 27a, 27b) that are arranged so as to engage with second guide means (7a, 7b) comprising rolling surfaces (10a, 10b) so as to drive the polygon to carry out a predetermined movement, the mechanism (1) being characterized in that it comprises a drawback device (50) that maintains contact between the guide means (27, 27a, 27b) and the rolling surfaces (10a, 10b). The invention also relates to an engine and a pump including such a mechanism (1).

IPC 8 full level
F01C 1/44 (2006.01); **F01C 21/08** (2006.01)

CPC (source: EP US)
F01C 1/067 (2013.01 - EP US); **F01C 1/07** (2013.01 - EP US); **F01C 1/44** (2013.01 - EP US); **F01C 21/08** (2013.01 - EP US);
F01C 21/106 (2013.01 - EP US); **F04C 2270/12** (2013.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
FR 2950926 A1 20110408; FR 2950926 B1 20111202; EP 2486239 A2 20120815; US 2012237370 A1 20120920; WO 2011042648 A2 20110414;
WO 2011042648 A3 20120405

DOCDB simple family (application)
FR 0956912 A 20091005; EP 10776781 A 20101004; FR 2010052087 W 20101004; US 201013500219 A 20101004