

Title (en)

ENERGY TRANSFORMATION DEVICE AND PUMP AND MOTOR UTILISING SAID DEVICE

Title (de)

ENERGIEUMSETZUNGSVORRICHTUNG UND PUMPE UND MOTOR, DER DIESE VORRICHTUNG VERWENDET

Title (fr)

DISPOSITIF DE TRANSFORMATION DE L'ÉNERGIE ET POMPE ET MOTEUR UTILISANT CE DISPOSITIF

Publication

EP 3299578 A1 20180328 (EN)

Application

EP 16189979 A 20160921

Priority

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Abstract (en)

An energy transformation device comprising a rotary part, a non-rotary part, and a fluid running between said parts, where the rotary part includes a compartment that accommodates the non-rotary part, the compartment has a bottom wall and a circumferential perimeter with a curvature defined by a periodic function having maxima and minima, the non-rotary part comprises a partition arranged traversing a first point on the curvature and an opposite second point on the curvature, a manifold having a first manifold part and a second manifold part arranged on opposite sides of the partition, which manifold parts have respective at least one fluid inlet and/or at least one fluid outlet, which partition in response to rotation of the rotary part delimits an intake pressure chamber and an outlet pressure chamber when the maxima and minima of the curvature of the rotary part pass by an end of the partition.

IPC 8 full level

F01C 1/02 (2006.01); **F04C 2/344** (2006.01)

CPC (source: EP)

F01C 1/0215 (2013.01); **F04C 2/3446** (2013.01)

Citation (search report)

- [XYI] US 3642390 A 19720215 - OSTBERG BERNHARD NILS
- [XI] GB 2497840 A 20130626 - RICHSTONE LTD [KR], et al
- [A] US 3304879 A 19670221 - HANSON ELLIOTT F
- [Y] US 2006059904 A1 20060323 - SHEVKET ALPER [GB]

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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