

Title (en)

ROTARY ENGINE WITH IMPROVED IN-HOUSING THERMAL LOAD IMBALANCE

Title (de)

ROTATIONSMOTOR MIT VERBESSERTEM THERMISCHEM LASTUNGLEICHGWICHT IM GEHÄUSE

Title (fr)

MOTEUR ROTATIF AYANT UN DÉSÉQUILIBRE DE CHARGE THERMIQUE AMÉLIORÉ À L'INTÉRIEUR DU LOGEMENT

Publication

**EP 3862531 A1 20210811 (EN)**

Application

**EP 20206548 A 20201109**

Priority

- KR 20200013868 A 20200205
- KR 20200051903 A 20200429

Abstract (en)

Rotary engine comprising:- a housing (110) provided therein with a receiving space (S) to which a rotor (20) is rotatably coupled, the housing having an intake port (111) and an exhaust port (113);- a heating unit (120) formed in a first section (A) of the housing (110), the intake port (111) being provided in the first section, the heating unit (120) being configured to heat the housing (110) cooled during intake and compression strokes; and- a cooling unit (130) formed in a second section (B) of the housing, the exhaust port (113) being provided in the second section, the cooling unit (130) being configured to cool the housing (110) heated during combustion and exhaust strokes.

IPC 8 full level

**F01C 1/22** (2006.01); **F01C 21/06** (2006.01); **F01C 21/10** (2006.01)

CPC (source: EP)

**F01C 1/22** (2013.01); **F01C 21/06** (2013.01); **F01C 21/10** (2013.01)

Citation (applicant)

KR 20020061929 A 20020725 - YANG GI WAH [KR]

Citation (search report)

- [X] WO 2013061031 A2 20130502 - COMPOUND ROTARY ENGINES LTD [GB]
- [X] US 8839623 B2 20140923 - NAKASUKA SHINICHI [JP], et al
- [A] US 3302623 A 19670207 - HANS-GEORG ZIMMERMANN
- [A] US 6776136 B1 20040817 - KAZEMPOUR SHAHROUKH M [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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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