

Title (en)

AN APPARATUS, SYSTEM AND METHOD FOR UTILIZING THERMAL ENERGY

Title (de)

VORRICHTUNG, SYSTEM UND VERFAHREN ZUR VERWENDUNG VON WÄRMEENERGIE

Title (fr)

APPAREIL, SYSTÈME ET PROCÉDÉ POUR UTILISER UNE ÉNERGIE THERMIQUE

Publication

EP 3161217 A4 20180404 (EN)

Application

EP 15814674 A 20150630

Priority

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- US 2015038509 W 20150630

Abstract (en)

[origin: WO2016004014A1] A transonic two-phase reaction turbine for use with low and high temperature fluid flow mediums includes at least two wheels that are configured to rotate in opposite directions, at least one of the at least two wheels being equipped with one or multiple kinetic energy harvesters.

IPC 8 full level

E03B 11/16 (2006.01); **B01D 47/10** (2006.01); **F01D 1/32** (2006.01); **F01K 7/16** (2006.01); **F01K 17/02** (2006.01); **F25B 1/053** (2006.01); **F25B 30/06** (2006.01)

CPC (source: EP)

B01D 47/10 (2013.01); **F01D 1/32** (2013.01); **F01K 7/16** (2013.01); **F01K 17/02** (2013.01); **G21C 15/24** (2013.01); **G21D 1/00** (2013.01); **F25B 30/06** (2013.01); **Y02E 20/14** (2013.01); **Y02E 30/00** (2013.01); **Y02E 30/30** (2013.01)

Citation (search report)

- [X] US 5408824 A 19950425 - SCHLOTE ANDREW [US]
- [X] US 4391102 A 19830705 - STUDHALTER WALTER R, et al
- [A] WO 2012015742 A2 20120202 - HUDSON FISONIC CORP [US], et al
- [A] WO 2012003706 A1 20120112 - JIN BEIBIAO [CN]
- [A] US 3677503 A 19720718 - FREEMAN CARLOS A JR
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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)

WO 2016004014 A1 20160107; AU 2015284297 A1 20170216; AU 2015284297 B2 20200220; CA 2956206 A1 20160107; CN 106661875 A 20170510; CN 106661875 B 20200214; EA 033338 B1 20190930; EA 201790059 A1 20170531; EP 3161217 A1 20170503; EP 3161217 A4 20180404; KR 20170041197 A 20170414

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