

Title (en)

ORGANIC RANKINE CYCLE AUGMENTED POWER SUPPLY SYSTEM FOR MOBILE REFRIGERATION UNITS

Title (de)

DURCH EINEN ORGANISCHEN RANKINE-ZYKLUS VERSTÄRKTES STROMVERSORGUNGSSYSTEM FÜR MOBILE KÜHLEINHEITEN

Title (fr)

SYSTÈME D'ALIMENTATION ÉLECTRIQUE AUGMENTÉ À CYCLE DE RANKINE À FLUIDE ORGANIQUE POUR UNITÉS DE RÉFRIGÉRATION MOBILES

Publication

EP 2914824 A1 20150909 (EN)

Application

EP 13788858 A 20131028

Priority

- US 201261720073 P 20121030
- US 2013067003 W 20131028

Abstract (en)

[origin: WO2014070633A1] A mobile refrigeration unit includes a refrigeration system having a plurality of electric motor driven components and an on-board power supply system for generating electric current and supplying the electric current to the plurality of electric motor driven components. The power supply system includes a first generator for generating a first portion of electric power, a second generator for generating a first portion of electric power, a fuel fired engine driving the first generator, and an organic Rankine cycle system driving the second generator. An engine exhaust line connects the fuel-fired engine in exhaust gas flow communication with the organic Rankine system. The unit may also include a storage battery and a power management system.

IPC 8 full level

F01N 5/02 (2006.01); **F02B 63/04** (2006.01); **F02G 5/02** (2006.01); **F25B 27/02** (2006.01); **H02J 3/38** (2006.01)

CPC (source: EP US)

F01N 5/02 (2013.01 - EP US); **F02G 5/02** (2013.01 - EP US); **F25B 31/02** (2013.01 - US); **F25D 11/003** (2013.01 - EP US); **H02J 3/322** (2020.01 - EP US); **H02J 3/381** (2013.01 - EP US); **F02B 63/044** (2013.01 - EP US); **F25B 27/02** (2013.01 - EP US); **H02J 2300/10** (2020.01 - EP); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)

See references of WO 2014070633A1

Citation (examination)

WO 2011093854 A1 20110804 - UNITED TECHNOLOGIES CORP [US], et al

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

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DOCDB simple family (application)

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