Title (en)

PLANT FOR THE PRODUCTION OF ENERGY BASED UPON THE ORGANIC RANKINE CYCLE.

Title (de)

AUF ORC-PROZESS BASIERENDE ANLAGE ZUR ENERGIEERZEUGUNG

Title (fr)

ÉQUIPEMENT UTILISÉ POUR LA PRODUCTION D'ÉNERGIE BASÉE SUR LE CYCLE DE RANKINE À FLUIDE ORGANIQUE

Publication

EP 2550435 A1 20130130 (EN)

Application

EP 11710150 A 20110309

Priority

- IT BG20100015 A 20100325
- EP 2011053527 W 20110309

Abstract (en)

[origin: WO2011117074A1] A plant for the production of energy that is based upon the organic Rankine cycle (ORC). The plant comprises a first ORC system, comprising a first organic operating fluid circulating, in sequence, between a first evaporator in conditions of heat exchange with a heat source, a first expansion stage in a turbine operatively connected to a generator, a first evaporator/condenser, and a first pump for recirculating said first organic operating fluid to said first evaporator. Said turbine is a partializable turbine and comprises means for partializing the incoming flowrate of said organic operating fluids, said means being designed to partialize said incoming flowrate to keep the r.p.m. of said turbine constant.

IPC 8 full level

F01K 23/04 (2006.01); **F01K 7/02** (2006.01); **F01K 23/08** (2006.01); **F22B 1/00** (2006.01); **F22B 1/16** (2006.01)

CPC (source: EA EP US)

F01K 7/02 (2013.01 - EA EP US); **F01K 23/04** (2013.01 - EA EP US); **F01K 23/08** (2013.01 - EA EP US); **F22B 1/006** (2013.01 - EA EP US); **F22B 1/167** (2013.01 - EA EP US)

Citation (search report)

See references of WO 2011117074A1

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 2011117074 A1 20110929; BR 112012024305 A2 20160524; BR 112012024305 A8 20180102; CA 2792680 A1 20110929; CN 102834590 A 20121219; CN 102834590 B 20150520; DK 2550435 T3 20181210; EA 035787 B1 20200811; EA 201290947 A1 20130430; EP 2550435 A1 20130130; EP 2550435 B1 20180822; ES 2696520 T3 20190116; IT 1400467 B1 20130611; IT BG20100015 A1 20110926; PL 2550435 T3 20190228; PT 2550435 T 20181128; US 2013014509 A1 20130117

DOCDB simple family (application)

EP 2011053527 W 20110309; BR 112012024305 A 20110309; CA 2792680 A 20110309; CN 201180015672 A 20110309; DK 11710150 T 20110309; EA 201290947 A 20110309; EP 11710150 A 20110309; ES 11710150 T 20110309; IT BG20100015 A 20100325; PL 11710150 T 20110309; PT 11710150 T 20110309; US 201113636827 A 20110309