

Title (en)

HEAT EXCHANGER FOR DIRECT EVAPORATION IN ORGANIC RANKINE CYCLE SYSTEMS AND METHOD

Title (de)

WÄRMETAUSCHER ZUR DIREKTEN VERDAMPFUNG IN ORGANISCHEN RANKINE-PROZESSSYSTEMEN UND VERFAHREN

Title (fr)

ÉCHANGEUR THERMIQUE POUR ÉVAPORATION DIRECTE DANS DES SYSTÈMES À CYCLE DE RANKINE À FLUIDE ORGANIQUE, ET PROCÉDÉ CORRESPONDANT

Publication

EP 2780558 A2 20140924 (EN)

Application

EP 10770842 A 20101027

Priority

- US 60934809 A 20091030
- EP 2010066282 W 20101027

Abstract (en)

[origin: WO2011051353A2] Systems and methods include heat exchangers using Organic Rankine Cycle (ORC) fluids in power generation systems. The system includes a heat exchanger configured to be mounted inside an exhaust stack that guides hot flue gases and having an inlet and an outlet, the heat exchanger being configured to receive a liquid stream of a first fluid through the inlet and to generate a vapor stream of the first fluid and the heat exchanger is configured to include a double walled pipe, where the first fluid is disposed within an inner wall of the double walled pipe and a second fluid is disposed between the inner wall and an outer wall of the double walled pipe.

IPC 8 full level

F01K 23/10 (2006.01); **F01K 25/08** (2006.01); **F22B 1/18** (2006.01); **F22B 37/10** (2006.01)

CPC (source: EP US)

F01K 23/10 (2013.01 - EP US); **F01K 25/08** (2013.01 - EP US); **F22B 1/1815** (2013.01 - EP US); **F22B 37/12** (2013.01 - EP US)

Citation (search report)

See references of WO 2011051353A2

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 2011051353 A2 20110505; **WO 2011051353 A3 20150115**; AU 2010311522 A1 20120524; BR 112012010150 A2 20190924; CA 2779074 A1 20110505; CL 2012001098 A1 20121228; CN 103228912 A 20130731; EP 2780558 A2 20140924; MX 2012005081 A 20121026; PE 20130026 A1 20130128; RU 2012116621 A 20131210; US 2011100009 A1 20110505

DOCDB simple family (application)

EP 2010066282 W 20101027; AU 2010311522 A 20101027; BR 112012010150 A 20101027; CA 2779074 A 20101027; CL 2012001098 A 20120427; CN 201080060055 A 20101027; EP 10770842 A 20101027; MX 2012005081 A 20101027; PE 2012000599 A 20101027; RU 2012116621 A 20101027; US 60934809 A 20091030