

Title (en)

HIGH-TEMPERATURE HEAT PUMP AND METHOD OF USING A WORKING MEDIUM IN A HIGH-TEMPERATURE HEAT PUMP

Title (de)

HOCHTEMPERATURWÄRMEPUMPE UND VERFAHREN ZUR VERWENDUNG EINES ARBEITSMEDIUMS IN EINER  
HOCHTEMPERATURWÄRMEPUMPE

Title (fr)

POMPE À CHALEUR À HAUTE TEMPÉRATURE ET PROCÉDÉ D'UTILISATION D'UN FLUIDE DE TRAVAIL DANS UNE POMPE À CHALEUR À  
HAUTE TEMPÉRATURE

Publication

**EP 2742298 A1 20140618 (DE)**

Application

**EP 12769355 A 20120921**

Priority

- DE 102011083840 A 20110930
- DE 102011086476 A 20111116
- EP 2012068645 W 20120921

Abstract (en)

[origin: WO2013045361A1] The present invention relates to a high-temperature heat pump having a fluid circuit (1) for absorbing thermal energy through the fluid from at least a first reservoir (2) while performing technical work and for outputting thermal energy through the fluid to at least a second reservoir (3) for heating the at least one second reservoir (3). The present invention also relates to a method of using a working medium in a high-temperature heat pump of this kind, wherein the working medium is hydrofluoroether or fluoroketone.

IPC 8 full level

**F25B 1/10** (2006.01); **F25B 30/02** (2006.01)

CPC (source: EP US)

**F25B 1/10** (2013.01 - EP US); **F25B 30/02** (2013.01 - EP US); **F25B 2400/13** (2013.01 - EP US)

Citation (search report)

See references of WO 2013045361A1

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 2013045361 A1 20130404**; CA 2850396 A1 20130404; CN 103827599 A 20140528; DE 102011086476 A1 20130404;  
EP 2742298 A1 20140618; JP 2014528053 A 20141023; RU 2014117522 A 20151110; US 2014245763 A1 20140904

DOCDB simple family (application)

**EP 2012068645 W 20120921**; CA 2850396 A 20120921; CN 201280047153 A 20120921; DE 102011086476 A 20111116;  
EP 12769355 A 20120921; JP 2014532328 A 20120921; RU 2014117522 A 20120921; US 201214348795 A 20120921