

Title (en)

CONTROL OF ORC PROCESSES BY INJECTION OF UN-VAPORIZED FLUIDS

Title (de)

REGELUNG VON ORC-PROZESSEN DURCH EINSPRITZUNG UNVERDAMPFTEN FLUIDS

Title (fr)

REGLAGES DE PROCESSUS ORC PAR PULVERISATION D'UN FLUIDE NON EVAPORE

Publication

**EP 3118424 B1 20200520 (DE)**

Application

**EP 15177121 A 20150716**

Priority

EP 15177121 A 20150716

Abstract (en)

[origin: WO2017008972A1] The invention relates to a thermodynamic cycle device, in particular an ORC device, comprising a preheater for preheating a working medium; an evaporator for evaporating and superheating a first mass flow of the preheated working medium; an expansion machine for expanding the evaporated and superheated first mass flow of the working medium; a condenser for condensing the working medium exiting the expansion machine; a feed pump for pumping condensed working medium to the preheater; and a first supply apparatus for supplying a second mass flow of the preheated working medium to the partially expanded first mass flow of the working medium in the expansion machine. The invention further relates to a corresponding method.

IPC 8 full level

**F01K 7/02** (2006.01); **F01K 7/04** (2006.01); **F01K 23/14** (2006.01)

CPC (source: EP US)

**F01K 7/025** (2013.01 - EP US); **F01K 7/04** (2013.01 - EP US); **F01K 23/14** (2013.01 - EP US); **F01K 25/06** (2013.01 - US)

Cited by

EP3361061A1; US10508569B2

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)

**EP 3118424 A1 20170118**; **EP 3118424 B1 20200520**; CN 107849943 A 20180327; CN 107849943 B 20200728; US 10669898 B2 20200602; US 2018209307 A1 20180726; WO 2017008972 A1 20170119

DOCDB simple family (application)

**EP 15177121 A 20150716**; CN 201680041482 A 20160613; EP 2016063449 W 20160613; US 201615745420 A 20160613