

Title (en)

Power generating apparatus and operation method thereof

Title (de)

Stromerzeugungsvorrichtung und Betriebsverfahren dafür

Title (fr)

Appareil de génération de puissance et son procédé de fonctionnement

Publication

**EP 2708704 A2 20140319 (EN)**

Application

**EP 13179041 A 20130802**

Priority

- JP 2012203220 A 20120914
- JP 2012232032 A 20121019

Abstract (en)

Provided is a power generating apparatus capable of using power generated by a heat engine (4) in combination with power of a driving source (53) provided separately from the heat engine (4). In order to prevent a problem caused when activating and stopping the apparatus, the apparatus of the present invention includes a rotary machine driving source (53) which generates a rotational driving force for a rotary machine (11) and a heat engine (4) which drives the rotary machine (11) in cooperation with the rotary machine driving source (53), wherein the heat engine includes an expander (3) which expands an evaporated working medium so as to generate a rotational driving force, the expander is provided with a bypass pipe (63) which causes a working medium inlet of the expander to communicate with a working medium outlet thereof, and the bypass pipe is provided with an on-off valve (64) which opens and closes the bypass pipe.

IPC 8 full level

**F01K 13/02** (2006.01)

CPC (source: EP KR US)

**F01K 3/242** (2013.01 - US); **F01K 13/02** (2013.01 - EP US); **F01K 15/00** (2013.01 - EP US); **F01K 23/04** (2013.01 - EP); **F01K 23/08** (2013.01 - US); **F01K 23/16** (2013.01 - EP); **F01K 25/00** (2013.01 - KR); **F01K 25/10** (2013.01 - KR)

Citation (applicant)

JP 2008175402 A 20080731 - MATSUSHITA ELECTRIC IND CO LTD

Cited by

EP2993353A1; US10234183B2; WO2022115019A1

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

DOCDB simple family (publication)

**EP 2708704 A2 20140319**; **EP 2708704 A3 20180110**; CN 103670553 A 20140326; CN 103670553 B 20150902; KR 101482879 B1 20150114; KR 20140035837 A 20140324; US 2014075941 A1 20140320

DOCDB simple family (application)

**EP 13179041 A 20130802**; CN 201310416974 A 20130913; KR 20130108996 A 20130911; US 201313953076 A 20130729