

Title (en)

CONTROLLING TURBOPUMP THRUST IN A HEAT ENGINE SYSTEM

Title (de)

STEUERUNG DER SCHUBKRAFT EINER TURBOPUMPE IN EINEM WÄRMEKRAFTMASCHINENSYSTEM

Title (fr)

RÉGLAGE DE LA POUSSÉE D'UNE TURBOPOMPE DANS UN SYSTÈME DE MOTEUR THERMIQUE

Publication

EP 2971622 A1 20160120 (EN)

Application

EP 14775493 A 20140312

Priority

- US 201361782578 P 20130314
- US 2014023990 W 20140312

Abstract (en)

[origin: WO2014159520A1] A heat engine system and a method are provided for generating energy by transforming thermal energy into mechanical and/or electrical energy, and for controlling a thrust load applied to a turbopump of the heat engine system. The generation of energy may be optimized by controlling a thrust or net thrust load applied to a turbopump of the heat engine system. The heat engine system may include one or more valves, such as a turbopump throttle valve and/or a bearing drain valve, which may be modulated to control the thrust load applied to the turbopump during one or more modes of operating the heat engine system.

IPC 8 full level

F01K 23/18 (2006.01); **F01K 7/32** (2006.01); **F01K 13/02** (2006.01); **F01K 23/10** (2006.01); **F01K 25/10** (2006.01); **F04D 27/00** (2006.01); **F04D 29/00** (2006.01); **F25B 31/00** (2006.01)

CPC (source: EP US)

F01K 7/32 (2013.01 - EP US); **F01K 13/02** (2013.01 - EP US); **F01K 23/02** (2013.01 - US); **F01K 23/18** (2013.01 - EP US); **F01K 25/04** (2013.01 - US); **F01K 25/103** (2013.01 - EP US); **F04D 13/04** (2013.01 - EP US); **F01K 23/10** (2013.01 - EP US)

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)

WO 2014159520 A1 20141002; EP 2971622 A1 20160120; EP 2971622 A4 20161221; US 2016017759 A1 20160121

DOCDB simple family (application)

US 2014023990 W 20140312; EP 14775493 A 20140312; US 201414774337 A 20140312