

Title (en)

FRICTION BOILER APPARATUS USING CENTRIFUGAL FORCE AND JET PROPULSION

Title (de)

REIBUNGSKESSELVORRICHTUNG UNTER VERWENDUNG VON ZENTRIFUGALKRAFT UND STRAHLANTRIEB

Title (fr)

APPAREIL DE CHAUDIÈRE DE FRICTION UTILISANT LA FORCE CENTRIFUGE ET DE PROPULSION PAR JET

Publication

EP 3575707 B1 20210630 (EN)

Application

EP 19172229 A 20190502

Priority

- KR 20180051908 A 20180504
- KR 20180023866 A 20180227

Abstract (en)

[origin: EP3575707A1] The present invention relates to a friction heat boiler apparatus using a centrifugal force and jet propulsion, capable of providing the propulsion through discharging a fluid while allowing the fluid to spirally flow through a rotational force to compress and heat the fluid by using frictional heat generated by the flow. The friction boiler apparatus includes: a spiral friction member for compressing a fluid by rotating the fluid to spirally flow, heating the fluid through frictional heat generated by a flow, and discharging the fluid; a heat exchange tank for storing a high-temperature fluid discharged from the spiral friction member, and heating a heating target fluid by allowing the high-temperature fluid to exchange heat with the heating target fluid; and a fluid pump for pumping the fluid stored in the heat exchange tank to supply the fluid to the spiral friction member.

IPC 8 full level

F24V 40/00 (2018.01)

CPC (source: EP KR)

F04C 2/02 (2013.01 - EP); **F04C 2/025** (2013.01 - KR); **F04C 15/0096** (2013.01 - EP); **F24V 40/10** (2018.04 - EP KR); **F04C 2240/603** (2013.01 - EP KR); **F24D 2200/30** (2013.01 - EP)

Cited by

WO2022175697A1

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 3575707 A1 20191204; **EP 3575707 B1 20210630**; CY 1124701 T1 20221125; KR 101954928 B1 20190308; PL 3575707 T3 20211227; WO 2019168294 A1 20190906

DOCDB simple family (application)

EP 19172229 A 20190502; CY 211100806 T 20210914; KR 20180051908 A 20180504; KR 2019002068 W 20190220; PL 19172229 T 20190502