

Title (en)

ELECTRIC RADIATOR TYPE HEATING APPARATUS INCLUDING A VOLTAGE CONVERTER

Title (de)

HEIZVORRICHTUNG VOM TYP EINES ELEKTRISCHEN HEIZKÖRPERS MIT EINEM SPANNUNGSWANDLER

Title (fr)

APPAREIL DE CHAUFFAGE DE TYPE RADIATEUR ÉLECTRIQUE INCLUANT UN CONVERTISSEUR DE TENSION

Publication

EP 3545724 B1 20210609 (FR)

Application

EP 17816924 A 20171124

Priority

- FR 1661447 A 20161124
- FR 2017053242 W 20171124

Abstract (en)

[origin: WO2018096289A1] An electric radiator type heating apparatus (10) comprises a housing (11) accommodating a heating unit (12) producing a first flow of calories (F1) when an input (121) of the heating unit (12) is supplied with a DC voltage. The heating apparatus (10) also comprises a voltage converter (14) mounted in the housing (11) and comprising an input (141) provided with connection elements for connecting the voltage converter (14) to an electric power supply source (13) and an output (142) supplying a DC voltage suitable for supplying the input (121) of the heating unit (12) directly or indirectly.

IPC 8 full level

H05B 1/02 (2006.01); **F24C 7/06** (2006.01); **F24D 18/00** (2022.01); **F24H 3/00** (2006.01)

CPC (source: EP KR US)

F24C 3/002 (2013.01 - KR); **F24C 7/062** (2013.01 - EP KR); **F24D 18/00** (2022.01 - EP KR US); **F24H 3/002** (2013.01 - EP US); **F24H 9/02** (2013.01 - EP KR US); **F24H 9/2071** (2013.01 - EP KR US); **F24H 15/258** (2022.01 - EP KR US); **F24H 15/37** (2022.01 - EP KR US); **F24H 15/414** (2022.01 - EP KR US); **H05B 1/0252** (2013.01 - EP KR); **H05B 1/0277** (2013.01 - US); **F24D 2101/30** (2022.01 - EP KR US); **F24D 2101/40** (2022.01 - EP KR US); **F24H 2240/01** (2013.01 - EP KR 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

DOCDB simple family (publication)

FR 3059199 A1 20180525; FR 3059199 B1 20210101; AU 2017364286 A1 20190620; AU 2017364286 B2 20190718; AU 2017364287 A1 20190627; AU 2017364287 B2 20190822; CA 3044348 A1 20180531; CA 3044348 C 20200721; CA 3044349 A1 20180531; CA 3044349 C 20200121; CN 109983836 A 20190705; CN 109983836 B 20220503; CN 109983837 A 20190705; CN 109983837 B 20220708; EP 3545724 A1 20191002; EP 3545724 B1 20210609; EP 3545725 A1 20191002; EP 3545725 B1 20200819; ES 2831091 T3 20210607; ES 2887783 T3 20211227; JP 2020513523 A 20200514; JP 2020513524 A 20200514; JP 6828159 B2 20210210; JP 6828160 B2 20210210; KR 102104791 B1 20200427; KR 102104792 B1 20200427; KR 20190077108 A 20190702; KR 20190080955 A 20190708; US 11060765 B2 20210713; US 2019383518 A1 20191219; US 2019383519 A1 20191219; WO 2018096289 A1 20180531; WO 2018096290 A1 20180531

DOCDB simple family (application)

FR 1661447 A 20161124; AU 2017364286 A 20171124; AU 2017364287 A 20171124; CA 3044348 A 20171124; CA 3044349 A 20171124; CN 201780071848 A 20171124; CN 201780072564 A 20171124; EP 17816924 A 20171124; EP 17816925 A 20171124; ES 17816924 T 20171124; ES 17816925 T 20171124; FR 2017053242 W 20171124; FR 2017053243 W 20171124; JP 2019527836 A 20171124; JP 2019527851 A 20171124; KR 20197017874 A 20171124; KR 20197018100 A 20171124; US 201716464045 A 20171124; US 201716464047 A 20171124