

Title (en)

HIGH-EFFICIENCY HEATING APPARATUS

Title (de)

HEIZGERÄT MIT HOHEM WIRKUNGSGRAD

Title (fr)

APPAREIL DE CHAUFFAGE À EFFICACITÉ ÉLEVÉE

Publication

EP 4291077 A4 20240828 (EN)

Application

EP 22764233 A 20220405

Priority

- US 202117198801 A 20210311
- US 202117173960 A 20210211
- US 202117222302 A 20210405
- US 2021034547 W 20210527
- US 202117396935 A 20210809
- US 202117397096 A 20210809
- US 2022023422 W 20220405

Abstract (en)

[origin: WO2022187756A1] A high-efficiency heating apparatus for heating fluids and cooking mediums, such as oil or shortening within a fryer, includes a natural draft (non powered) or a powered draft combustion chamber that is affixed to an exterior surface of a fry tank.

IPC 8 full level

A47J 37/12 (2006.01); **F23D 99/00** (2010.01); **F23L 17/00** (2006.01); **F24H 9/00** (2022.01); **F28F 1/40** (2006.01)

CPC (source: EP)

A47J 37/1242 (2013.01); **A47J 37/1247** (2013.01); **F28F 13/12** (2013.01)

Citation (search report)

- [XII] US 5611330 A 19970318 - CORLISS JOHN M [US], et al
- [XII] US 5819638 A 19981013 - YOKOYAMA NOBUYOSHI [JP]
- [A] US 6178964 B1 20010130 - MCFADDEN DAVID H [US], et al
- See also references of WO 2022187756A1

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)

WO 2022187756 A1 20220909; CN 116981384 A 20231031; EP 4291077 A1 20231220; EP 4291077 A4 20240828

DOCDB simple family (application)

US 2022023422 W 20220405; CN 202280021266 A 20220405; EP 22764233 A 20220405