

Title (en)
HIGH FREQUENCY HEATING DEVICE

Title (de)
VORRICHTUNG ZUR HOCHFREQUENZERWÄRMUNG

Title (fr)
DISPOSITIF DE CHAUFFAGE HAUTE FRÉQUENCE

Publication
EP 3435739 A4 20190327 (EN)

Application
EP 17769844 A 20170302

Priority
• JP 2016061028 A 20160325
• JP 2017008212 W 20170302

Abstract (en)
[origin: EP3435739A1] A high frequency heating device according to the present disclosure includes: a heating chamber having an opening; an opening peripheral portion provided at a peripheral edge of the opening; a high frequency wave generation unit that supplies high frequency waves to the heating chamber; and a door that covers the opening in an openable manner and has a radio wave shielding portion at a position facing the opening peripheral portion. The radio wave shielding portion is provided with an open hole provided so as to face the opening peripheral portion, and a choke groove formed from a plurality of conductors. The choke groove has a first resonance space having a first resonance frequency, and a second resonance space having a second resonance frequency different from the first resonance frequency. Accordingly, radio wave shielding performance can be improved.

IPC 8 full level
H05B 6/76 (2006.01); **F24C 7/02** (2006.01)

CPC (source: EP)
F24C 7/02 (2013.01); **H05B 6/763** (2013.01)

Citation (search report)
• [X1] GB 2106360 A 19830407 - HITACHI HEATING APPL [JP]
• [X1] US 2013228568 A1 20130905 - HUYNH TRIEU V [US], et al
• [X1] WO 0036878 A1 20000622 - WHIRLPOOL CO [US], et al
• [E] WO 2017154713 A1 20170914 - PANASONIC IP MAN CO LTD [JP]
• See references of WO 2017163799A1

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 3435739 A1 20190130; EP 3435739 A4 20190327; EP 3435739 B1 20210707; CN 108886845 A 20181123; CN 108886845 B 20220218; JP WO2017163799 A1 20190131; WO 2017163799 A1 20170928

DOCDB simple family (application)
EP 17769844 A 20170302; CN 201780018772 A 20170302; JP 2017008212 W 20170302; JP 2018507173 A 20170302