

Title (en)
MICROWAVE HEATING DEVICE

Title (de)
MIKROWELLENHEIZVORRICHTUNG

Title (fr)
DISPOSITIF DE CHAUFFAGE PAR MICRO-ONDES

Publication
EP 3930095 A4 20220420 (EN)

Application
EP 20758802 A 20200213

Priority
• JP 2019029955 A 20190222
• JP 2020005511 W 20200213

Abstract (en)
[origin: EP3930095A1] A microwave heating device according to the present disclosure includes: a heating chamber to accommodate a heating target object, a microwave generating unit, a waveguide, an opening, and a reflected-wave detection unit. The microwave generating unit generates a microwave. The waveguide transmits, to the heating chamber, the microwave generated by the microwave generating unit. The opening is disposed in a wall surface of the waveguide, and extracts a part of a microwave from the waveguide. The reflected-wave detection unit detects a part of a reflected wave being a microwave propagating from the heating chamber toward the microwave generating unit, with the part of the reflected wave having been extracted through the opening. The reflected-wave detection unit is disposed within a range from the opening to a distance equal to 1/2 of the maximum opening length of the opening.

IPC 8 full level
H01P 5/18 (2006.01); **H01P 5/107** (2006.01); **H05B 6/70** (2006.01)

CPC (source: EP)
H01P 5/107 (2013.01); **H01P 5/18** (2013.01); **H05B 6/705** (2013.01); **H05B 6/707** (2013.01)

Citation (search report)
• [X] EP 3435736 A1 20190130 - PANASONIC IP MAN CO LTD [JP]
• [A] US 2015244055 A1 20150827 - YOSHINO KOJI [JP], et al
• [A] EP 3435737 A1 20190130 - PANASONIC IP MAN CO LTD [JP]
• [A] EP 0552807 A1 19930728 - SHARP KK [JP]
• See also references of WO 2020170923A1

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 3930095 A1 20211229; EP 3930095 A4 20220420; EP 3930095 B1 20230906; CN 113474942 A 20211001; CN 113474942 B 20220715; JP 7474930 B2 20240426; JP WO2020170923 A1 20211216; WO 2020170923 A1 20200827

DOCDB simple family (application)
EP 20758802 A 20200213; CN 202080015546 A 20200213; JP 2020005511 W 20200213; JP 2021501902 A 20200213