

Title (en)
Microwave heating device

Title (de)
Mikrowellenheizvorrichtung

Title (fr)
Dispositif de chauffage à micro-ondes

Publication
EP 2947961 A1 20151125 (EN)

Application
EP 14305749 A 20140520

Priority
EP 14305749 A 20140520

Abstract (en)
The invention relates to a microwave heating device (1) comprising: - a microwave generator (2) for generating a microwave radiation to a microwave input (4), - at least four feeding slots (41) arranged in a first plane (P1), the microwave input (4) being connected to the cavity (10) through the feeding slots (41) so that the microwave radiation is fed into the cavity (10) through the feeding slots (41), and - a first multi-slot resonator (5) arranged between the feeding slots (41) and the load (15) and extending in a second plane (P2) parallel to the first plane (P1), the first multi-slot resonator (5) being provided with multiple primary homogenization slots (51) arranged to divide the microwave radiation fed into the cavity (10).

IPC 8 full level
H05B 6/70 (2006.01); **H05B 6/72** (2006.01)

CPC (source: EP)
H05B 6/705 (2013.01); **H05B 6/708** (2013.01); **H05B 6/725** (2013.01)

Citation (search report)

- [X] EP 2648479 A1 20131009 - PANASONIC CORP [JP]
- [A] EP 1619933 A1 20060125 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [A] US 4354083 A 19821012 - STAATS JAMES E
- [A] DE 3242638 A1 19830707 - BOSCH SIEMENS HAUSGERAETE [DE], et al
- [A] US 7145119 B1 20061205 - KIM KWANG-YONG [KR], et al

Cited by
CN113038650A; NO20170493A1; NO345369B1; US11826717B2

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 2947961 A1 20151125; RO 131921 A2 20170530; RO 131921 B1 20220930; WO 2015177244 A1 20151126

DOCDB simple family (application)
EP 14305749 A 20140520; EP 2015061177 W 20150520; RO 201600853 A 20150520