

Title (en)  
MICROWAVE HEATING DEVICE

Title (de)  
MIKROWELLENHEIZVORRICHTUNG

Title (fr)  
DISPOSITIF DE CHAUFFAGE À MICRO-ONDES

Publication  
**EP 2741575 A1 20140611 (EN)**

Application  
**EP 12820421 A 20120217**

Priority  
• JP 2011170690 A 20110804  
• JP 2012001063 W 20120217

Abstract (en)  
In a microwave heating device according to the present invention, a feeding portion (22) for radiating microwaves includes a vertical shaft element (22b) provided in the vertical direction by penetrating through a coupling hole (25) formed in portions at which a feeding chamber (24) and a waveguide (21) are bonded to each other, and a flat-plate element (22a) having a radiation surface for radiating microwaves within the heating chamber, wherein the flat-plate element (22a) is bonded to the vertical shaft element. At least a partial radiation surface, out of the microwave radiation surface of the flat-plate element, is placed to be inclined at a predetermined angle  $\theta$  with respect to a horizontal direction.

IPC 8 full level  
**H05B 6/72** (2006.01); **H05B 6/64** (2006.01); **H05B 6/70** (2006.01)

CPC (source: EP)  
**H05B 6/6473** (2013.01); **H05B 6/6482** (2013.01); **H05B 6/707** (2013.01); **H05B 6/725** (2013.01)

Cited by  
EP3798518A4; EP3927118A4; US11613047B2; WO2018001818A1; US11883789B2

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)  
**EP 2741575 A1 20140611**; **EP 2741575 A4 20150107**; **EP 2741575 B1 20170517**; CN 103718645 A 20140409; CN 103718645 B 20160817; JP 6004281 B2 20161005; JP WO2013018244 A1 20150305; TW 201309098 A 20130216; WO 2013018244 A1 20130207

DOCDB simple family (application)  
**EP 12820421 A 20120217**; CN 201280038403 A 20120217; JP 2012001063 W 20120217; JP 2013526711 A 20120217; TW 101106347 A 20120224