

Title (en)
MICROWAVE HEATING DEVICE

Title (de)
MIKROWELLENHEIZVORRICHTUNG

Title (fr)
DISPOSITIF DE CHAUFFAGE PAR MICRO-ONDES

Publication
EP 2738474 A4 20141231 (EN)

Application
EP 12817529 A 20120206

Priority
• JP 2011161680 A 20110725
• JP 2012000772 W 20120206

Abstract (en)
[origin: EP2738474A1] In a microwave heating device including a roasting grid (4A, 4B) for placing an object to be heated thereon, the roasting grid includes an outer frame (21A, 21B) and a plurality of bridge members (20, 26, 27) formed from metal rod members which are across the outer frame. In the bridge members and in a closed loop having a single opening which is formed by the bridge members and the outer frame, a single side formed by one of the bridge members or one portion of the outer frame is made to have a length different from an integer multiple of $1/2$ the wavelength of the microwave, and a single side formed by one of the bridge members or one portion of the outer frame which is contacted at its one end with a wall surface of a heating chamber and is placed at its other end within the heating chamber is made to have a length different from an integer multiple of $1/4$ the wavelength of the microwave. This provides a microwave heating device with less energy losses and with higher efficiency.

IPC 8 full level
F24C 7/02 (2006.01)

CPC (source: EP)
H05B 6/6408 (2013.01)

Citation (search report)
• [Y] US 3798404 A 19740319 - SIMON D, et al
• [Y] US 4455467 A 19840619 - DILLS RAYMOND L [US]
• [Y] GB 941434 A 19631113 - MIWAG MIKROWELLEN A G
• See references of WO 2013014820A1

Cited by
EP2993960A1

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 2738474 A1 20140604; EP 2738474 A4 20141231; EP 2738474 B1 20161214; JP 5891453 B2 20160323; JP WO2013014820 A1 20150223; WO 2013014820 A1 20130131

DOCDB simple family (application)
EP 12817529 A 20120206; JP 2012000772 W 20120206; JP 2013525533 A 20120206