

Title (en)  
MICROWAVE HEATING DEVICE

Title (de)  
MIKROWELLENHEIZVORRICHTUNG

Title (fr)  
DISPOSITIF DE CHAUFFAGE AUX MICRO-ONDES

Publication  
**EP 3240366 B1 20210512 (EN)**

Application  
**EP 15872165 A 20151204**

Priority  
• JP 2014259171 A 20141222  
• JP 2015006020 W 20151204

Abstract (en)  
[origin: EP3240366A1] Waveguide structure antenna (5) has ceiling surface (9) and side wall surfaces (10a, 10b, 10c) defining waveguide structure section (8), as well as has front opening (13) to emit microwaves from front opening (13) toward a heating-target object. Waveguide structure section (8) includes coupling part (7) joined to ceiling surface (9) to couple microwaves into an internal space of waveguide structure section (8). Waveguide structure section (8) emits circularly polarized waves from at least one microwave extraction opening (14) formed on ceiling surface (9) into a heating chamber. At least one microwave extraction opening (14) includes at least a pair of microwave extraction openings (14) that is symmetrical with respect to pipe axis (V) of waveguide structure section (8). Waveguide structure section (8) has a flat area between the pair of microwave extraction openings (14). According to this aspect, the heating-target object loaded in the heating chamber can uniformly and locally be heated.

IPC 8 full level  
**F24C 7/02** (2006.01); **H05B 6/70** (2006.01); **H05B 6/72** (2006.01); **H05B 6/74** (2006.01)

CPC (source: EP)  
**F24C 7/02** (2013.01); **H05B 6/708** (2013.01); **H05B 6/72** (2013.01); **H05B 6/725** (2013.01); **H05B 6/74** (2013.01)

Cited by  
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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)  
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