

Title (en)

MICROWAVE COOKING DEVICE WITH A LAMBDA QUARTER-WAVE TRAP

Title (de)

MIKROWELLEN-GARGERÄT MIT LAMBDA-VIERTEL-FALLE

Title (fr)

APPAREIL DE CUISSON À MICRO-ONDES COMPRENANT UN PIÈGE QUART D'ONDE

Publication

EP 3646672 A1 20200506 (DE)

Application

EP 18729969 A 20180608

Priority

- DE 102017210730 A 20170626
- EP 2018065184 W 20180608

Abstract (en)

[origin: WO2019001932A1] A microwave cooking device (71) has a door (72) that covers a feed opening (3) of a cooking chamber (4) in the closed state and has a profiled trap structure (77), which together with an electrically conductive door flange (7) forms a lambda quarter-wave trap that frames the feed opening (3). The trap structure has a profiled metal choke section (78) with an open face (9) which lies opposite the door flange and into which an inner metal tongue (10) protrudes on the lateral interior and an outer metal tongue (73) protrudes on the lateral exterior, said metal tongues being electrically connected to the profiled choke section and being separated from each other by a microwave entry slot (75). The profiled choke section is surrounded on the exterior in a lateral direction by a parallel overlapping region (15) which protrudes in the direction of the door flange and which has a cover surface (16) that faces the door flange and is made of an electrically conductive material, said cover surface having the same shape as the door flange region covered by the cover surface and being spaced therefrom. The invention can be used in particular on microwave domestic appliances, for example independent microwave cooking devices or baking ovens and/or steam cooking devices with a microwave function.

IPC 8 full level

H05B 6/76 (2006.01); **H05B 6/64** (2006.01)

CPC (source: EP US)

H05B 6/763 (2013.01 - EP US)

Citation (search report)

See references of WO 2019001932A1

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)

DE 102017210730 A1 20181227; CN 110754138 A 20200204; CN 110754138 B 20220624; EP 3646672 A1 20200506; EP 3646672 B1 20220302; PL 3646672 T3 20220509; US 11265976 B2 20220301; US 2021092807 A1 20210325; WO 2019001932 A1 20190103

DOCDB simple family (application)

DE 102017210730 A 20170626; CN 201880042402 A 20180608; EP 18729969 A 20180608; EP 2018065184 W 20180608; PL 18729969 T 20180608; US 201816603593 A 20180608