

Title (en)

MICROWAVE COOKING DEVICE HAVING A PATCH ANTENNA

Title (de)

MIKROWELLEN-GÄRGERÄT MIT PATCHANTENNE

Title (fr)

APPAREIL DE CUISSON À MICRO-ONDES À ANTENNE PLANAIRE

Publication

EP 3643141 B1 20211215 (DE)

Application

EP 18729965 A 20180608

Priority

- DE 102017210275 A 20170620
- EP 2018065161 W 20180608

Abstract (en)

[origin: WO2018234064A1] The invention relates to a microwave cooking device (H) has a cooking chamber (G) delimited by a cooking chamber wall (1; 23) and has microwave apparatus for introducing microwaves into the cooking chamber (G), which microwave apparatus has at least one patch antenna (2; 24), wherein the patch antenna (2; 24) has a planar main body (3) and a planar emission body (6; 21), which covers the main body (3) at a distance and can be fed with microwave energy, and the main body (3; 25) and the emission body (6; 21) are electrically insulated from each other, the main body (3; 25) corresponding to a region of the cooking chamber wall (1). The invention can be advantageously applied in particular to domestic appliances, in particular stand-alone microwave devices or baking ovens having a microwave function.

IPC 8 full level

H05B 6/72 (2006.01)

CPC (source: EP US)

H05B 6/6444 (2013.01 - US); **H05B 6/70** (2013.01 - EP); **H05B 6/72** (2013.01 - EP US)

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)

DE 102017210275 A1 20181220; CN 110741731 A 20200131; CN 110741731 B 20220304; EP 3643141 A1 20200429; EP 3643141 B1 20211215; US 11533792 B2 20221220; US 2020015327 A1 20200109; WO 2018234064 A1 20181227

DOCDB simple family (application)

DE 102017210275 A 20170620; CN 201880041060 A 20180608; EP 18729965 A 20180608; EP 2018065161 W 20180608; US 201816490615 A 20180608