

Title (en)

OPERATING A HOUSEHOLD MICROWAVE APPLIANCE

Title (de)

BETREIBEN EINES HAUSHALTS-MIKROWELLENGERÄTS

Title (fr)

FONCTIONNEMENT D'UN APPAREIL À MICRO-ONDES DOMESTIQUE

Publication

EP 4260659 A1 20231018 (DE)

Application

EP 21815955 A 20211116

Priority

- DE 102020215681 A 20201210
- EP 2021081826 W 20211116

Abstract (en)

[origin: WO2022122317A1] The invention relates to a household microwave appliance (1) operated with multiple parameter configurations Sp, Sq, which treat food to be cooked (G) in a locally differing manner in order to carry out (S2) an initial scan by means of a thermal imaging sensor (9) directed into the cooking chamber to determine temperature distributions < T > on a surface of the food to be cooked G, in order to obtain change patterns < ΔT > p,q from differences between different temperature distributions < T > p, < T > q, for which an evaluation value Bq,p is calculated, which, on the basis of a target temperature distribution < Tziel >, < Tziel* > p,q resulting from a normalised target state < Z > and a current temperature distribution < T >, determines that heating pattern < ΔT > p,q | best which best brings the current temperature distribution < T > closer to the target temperature distribution, and then microwave power is applied (S5) to the food to be cooked with the parameter configuration belonging to the heating pattern < ΔT > p,q | best.

IPC 8 full level

H05B 6/64 (2006.01); **H05B 6/68** (2006.01)

CPC (source: EP US)

H05B 6/6411 (2013.01 - US); **H05B 6/645** (2013.01 - EP); **H05B 6/6455** (2013.01 - EP US); **H05B 6/687** (2013.01 - US); **H05B 6/745** (2013.01 - EP US); **H05B 6/687** (2013.01 - EP); **H05B 6/688** (2013.01 - EP)

Citation (search report)

See references of WO 2022122317A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022122317 A1 20220616; CN 116830801 A 20230929; DE 102020215681 A1 20220615; EP 4260659 A1 20231018; US 2023422361 A1 20231228

DOCDB simple family (application)

EP 2021081826 W 20211116; CN 202180083292 A 20211116; DE 102020215681 A 20201210; EP 21815955 A 20211116; US 202118038235 A 20211116