

Title (en)

METHOD FOR OPERATING A FOOD HEATING DEVICE, AND FOOD HEATING DEVICE

Title (de)

VERFAHREN ZUM BETREIBEN EINES LEBENSMITTEL-ERWÄRMUNGSGERÄTS SOWIE LEBENSMITTEL-ERWÄRMUNGSGERÄT

Title (fr)

PROCÉDÉ DE FONCTIONNEMENT D'UN DISPOSITIF DE CHAUFFAGE D'ALIMENTS ET DISPOSITIF DE CHAUFFAGE D'ALIMENTS

Publication

**EP 3756420 A1 20201230 (DE)**

Application

**EP 19703706 A 20190206**

Priority

- DE 102018202719 A 20180222
- EP 2019052846 W 20190206

Abstract (en)

[origin: WO2019162087A1] A method (S1-S7) is used to operate a food heating device (1), in which first microwave measuring radiation (MW1) of a first measurement frequency (f1) and second microwave measuring radiation (MW2) of a second measurement frequency (f2) different from the first measurement frequency (f1) are simultaneously emitted into a treatment area (2) of the food heating device (1), superimposed microwave measuring radiation received from the treatment area (2) is measured, and a thermal state of food (L) in the treatment area (2) is determined on the basis of an evaluation of at least one beat property (B) of the superimposed microwave measuring radiation. A food heating device is set up to allow the method to run and, for this purpose, has at least one microwave transmitter (3a, 3b) for emitting the first microwave measuring radiation (MW1) and the second microwave measuring radiation (MW2) into the treatment area (2) and at least one microwave measuring apparatus (7a, 7b) for measuring superimposed microwave measuring radiation from the treatment area (2). The invention can be particularly advantageously applied to cooking devices having a microwave function for heating food, in particular microwave ovens and combined ovens/microwave ovens.

IPC 8 full level

**H05B 6/70** (2006.01); **H05B 6/72** (2006.01)

CPC (source: EP)

**H05B 6/705** (2013.01); **H05B 6/72** (2013.01)

Citation (search report)

See references of WO 2019162087A1

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 102018202719 A1 20190822**; EP 3756420 A1 20201230; EP 3756420 B1 20220914; PL 3756420 T3 20221205;  
WO 2019162087 A1 20190829

DOCDB simple family (application)

**DE 102018202719 A 20180222**; EP 19703706 A 20190206; EP 2019052846 W 20190206; PL 19703706 T 20190206