

Title (en)

AN OVEN WITH COOKING MODE DETECTION DEVICE AND OPERATION METHOD FOR THE SAME

Title (de)

OFEN MIT KOCHMODUSDETEKTORVORRICHTUNG UND BETRIEBSVERFAHREN DAFÜR

Title (fr)

FOUR À DISPOSITIF DE DÉTECTION DE MODE DE CUISSON ET SON PROCÉDÉ DE FONCTIONNEMENT

Publication

EP 4058732 A1 20220921 (EN)

Application

EP 19944787 A 20190910

Priority

TR 2019050741 W 20190910

Abstract (en)

[origin: WO2021050011A1] The invention relates to an oven comprising a rotatable mode setting knob (50) disposed on a control panel (12); multiple electric heating elements (18, 19) provided inside a cooking chamber (11); a commutator (60) operated by activating and deactivating the electric heating elements (18, 19) to heat the cooking chamber (11) in a predefined combination by mechanical switching when the mode setting knob (50) is rotated in a corresponding selected operation mode (A, B, C) and a temperature adjustment element (20) in connection with the electric heating elements (18, 19) to set inner temperature of the cooking chamber (11). The oven further comprising an electronic control unit (30) is configured to check each output terminal (64) of the commutator (60) to detect a return signal (s2) on the a corresponding output terminal (64) while supplying the commutator (60) a constant electric signal (s1) in a predefined modulation from at least one input terminal (62) in a sampling interval in order to detect selected operation mode (A, B, C).

IPC 8 full level

F24C 7/08 (2006.01)

CPC (source: EP)

F24C 7/085 (2013.01); **H05B 1/0263** (2013.01); **F24C 7/087** (2013.01)

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)

WO 2021050011 A1 20210318; EP 4058732 A1 20220921; EP 4058732 A4 20231004

DOCDB simple family (application)

TR 2019050741 W 20190910; EP 19944787 A 20190910