

Title (en)

OVEN AND METHOD OF OPERATING AN OVEN

Title (de)

OFEN UND VERFAHREN ZUM BETRIEB EINES OFENS

Title (fr)

FOUR ET PROCÉDÉ D'UTILISATION D'UN FOUR

Publication

EP 3870900 A2 20210901 (EN)

Application

EP 19787343 A 20190906

Priority

- GB 201814623 A 20180907
- GB 2019052490 W 20190906

Abstract (en)

[origin: WO2020049314A2] An oven with an enclosure defining an oven chamber for receiving food, a food supporting base at the bottom of the oven and a plurality of electrically powered heaters comprising one or more gas heaters in the roof of the oven and adjacent air nozzles configured to blow circulating heated humidity regulated air at the food from above with a high impingement velocity, one or more base heaters configured to heat the base, or a cooking container located on the base, and thereby regulate conductive heat transfer to the base of the food and one or more high temperature radiative heaters at the top of the oven temperature which direct radiation at the top surface of food in use. The oven has a cooking program, not requiring a preheating step, in which food is initially heated as quickly as possible, within an electrical power consumption limit, by convection and conduction and where power is later redirected from the gas heaters to the radiative heaters to continue to heat the food rapidly when convection becomes less effective. The program completes before the enclosure has reached steady state temperature. The product is high quality food, cooked quickly and with substantially reduced energy consumption.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2020049314A2

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Designated extension state (EPC)

BA ME

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