

Title (en)

A method of browning food in a microwave oven.

Title (de)

Verfahren zum Aufbräunen von Nahrungsmitteln in einem Mikrowellenherd.

Title (fr)

Procédé pour brunir des aliments dans un four à micro-ondes.

Publication

EP 0066637 A1 19821215 (EN)

Application

EP 81104380 A 19810605

Priority

EP 81104380 A 19810605

Abstract (en)

The method comprises the application of power to a microwave generating device with the application of power to an infrared heater. The operational periods of each type of radiation device are automatically varied over the cooking cycle. The parameters of these periods are empirically predetermined for each broad category of food and retained in a nonvolatile memory. In one embodiment, the periods are adjusted to compensate for varying quantities of food and desired donenesses by relating them to a total cooking time per unit mass empirically predetermined for each food category and doneness. Alternatively, the periods are adjusted by entering the food mass into a microprocessor in the oven. The microprocessor calculates the cooking time by use of the food category, food mass and power input to the microwave generating device. In either embodiment, the recipe may also include varying the microwave power and providing cooling air. Compensation for variations in initial heater temperatures are provided to allow cooking of a second item of food immediately after cooking a first time.

IPC 1-7

H05B 6/68; **F24C 7/02**; **G06F 15/20**

IPC 8 full level

H05B 6/68 (2006.01)

CPC (source: EP)

H05B 6/6435 (2013.01); **H05B 6/6482** (2013.01)

Citation (search report)

- US 4227062 A 19801007 - PAYNE THOMAS R, et al
- DE 1143947 B 19630221 - BOSCH ELEKTRONIK GMBH
- US 3854024 A 19741210 - KAUFMAN H, et al
- US 4045640 A 19770830 - MCQUEEN JR RAYMOND R, et al
- EP 0000955 B1 19810902
- GB 2061576 A 19810513 - CANNON IND LTD
- GB 2011677 A 19790711 - CANNON IND LTD
- US 4137442 A 19790130 - TATEDA KOICHI
- US 3569656 A 19710309 - WHITE EDWARD A, et al

Cited by

EP0122710A3; EP0688146A3; US6157014A; EP0465020A3; EP0788292A1; EP0727919A1; FR2730892A1; EP0849537A1; US5877477A; EP0146406A3; FR2737552A1; EP0757510A3; EP0609762A1; FR2701093A1; WO2005026621A1; WO2014022575A3; US9223384B2

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0066637 A1 19821215; **EP 0066637 B1 19861008**; AT E22769 T1 19861015; DE 3175458 D1 19861113

DOCDB simple family (application)

EP 81104380 A 19810605; AT 81104380 T 19810605; DE 3175458 T 19810605