

Title (en)

Method of operating an oven having heating system, microwave system and steam system

Title (de)

Verfahren zum Betrieb eines Ofens mit Heizsystem, Mikrowellensystem und Dampfsystem

Title (fr)

Procédé de fonctionnement d'un four avec système de chauffage, système micro-ondes et système à vapeur

Publication

EP 1767860 B1 20110921 (EN)

Application

EP 05108734 A 20050921

Priority

EP 05108734 A 20050921

Abstract (en)

[origin: EP1767860A1] A method of operating an oven (10) and controlling the introduction of conventional heat, microwave energy and steam to achieve optimal cooking results. The oven (10) includes a heating system (35), a microwave system (46) and a steam system (50). A control panel 28 is provide for inputting data to a controller 30. The oven operates according to a method which includes first inputting information regarding food type and at least one additional parameter. The duration of a first cooking step (74) and a second cooking step (78) are then calculated. Steam is introduced into the oven cavity (14) during the first cooking step while operating the heating system (35) to heat the oven cavity (14) to an oven set point temperature (TEMP 2). After the first cooking step, the microwave system (46) is energized for a first portion of the second cooking step while maintaining the oven cavity (14) at the oven set point temperature. The heating system (35) is de-energized at the end of the second cooking step. The one additional parameter is preferably a data input corresponding to the weight and/or size of the food item. The controller (30) determines an overall cooking period (80) and the duration of the first cooking step (76) is a fraction or percentage of the overall cooking period where the fraction or percentage of the overall cooking period is controlled according to the input food type.

IPC 8 full level

F24C 7/08 (2006.01); **F24C 15/32** (2006.01); **H05B 6/64** (2006.01)

CPC (source: EP)

F24C 7/08 (2013.01); **F24C 15/327** (2013.01); **H05B 6/647** (2013.01)

Citation (examination)

EP 1458220 A1 20040915 - MATSUSHITA ELECTRIC IND CO LTD [JP]

Cited by

CN110686280A; CN114305153A; EP4033154A1; EP3118527A1; JP2012200395A; CN113142981A; EP2123981A1; CN112395060A; FR2924791A1; EP2653788A1; DE102014112522A1; AU2013202494B2; USD934631S; EP2026009A2; US11708977B2; EP2026009A3; EP2608635A1; EP2181598A3; FR2919918A1; EP2728966A1; CN103791529A; CN107105939A; KR20170105486A; EP3248520A4; RU2713075C2; WO2010050721A3; WO2015194440A1; USD932833S; USD934027S; USD873602S; USD876874S; USD883014S; USD914436S; USD914447S; USD948938S; WO2017178346A1; WO2020061628A1; USD922126S; USD982375S; USD1015798S; EP2144481A1; US11647861B2; US11678765B2; US11969118B2; USD874211S; USD883015S; USD883017S; USD883016S; USD920732S; USD929173S; USD929794S; USD929793S; USD935259S; USD903415S; USD903413S; USD903414S; US11033146B2; US11051654B2; USD931680S; US11147415B2; USD940503S; USD941090S; US11363911B2; US11751722B2; US11766152B2; US11832761B2; US10390656B2; US10405697B2; US10405698B2; US10413122B2; US10413121B2; US10485378B2; US10646070B2; US10653270B2; US10660472B2; US10674868B2; US10682011B2; US10874250B2; US11089902B2; US11089903B2; US11109710B2; US11266267B2; US11266268B2; US11278151B2; US11304561B2; US11363910B2; US11399657B2; US11445856B2; US11547243B2; US11547242B2; US11627834B2; US11751710B2; US11759049B2; US11759048B2; US11877692B2; US11889950B2; EP2747515B1

Designated contracting state (EPC)

DE ES FR GB IT PL

DOCDB simple family (publication)

EP 1767860 A1 20070328; **EP 1767860 B1 20110921**; ES 2371757 T3 20120109; PL 1767860 T3 20120229

DOCDB simple family (application)

EP 05108734 A 20050921; ES 05108734 T 20050921; PL 05108734 T 20050921