

Title (en)

COOKING APPARATUS USING ELECTRON AND MOLECULAR EXCITATION MODE.

Title (de)

KOCHVORRICHTUNG UNTER VERWENDUNG VON ELEKTRONEN UND MOLEKULAREN ANREGUNG MODUS.

Title (fr)

APPAREIL DE CUISSON UTILISANT UN MODE D'EXCITATION ELECTRONIQUE ET MOLECULAIRE.

Publication

**EP 0613543 A4 19940706 (EN)**

Application

**EP 92917140 A 19920729**

Priority

- US 9206266 W 19920729
- US 73820791 A 19910730

Abstract (en)

[origin: WO9303310A1] An oven using one or more quartz halogen tungsten lamps or quartz arc bulbs (16, 18) capable of producing 4KW of radiant energy of which a significant portion is in the visible light range of the electromagnetic spectrum and substantially forty to fifty percent of the radiation is in the visible and near visible range impinges visible, near visible and infrared radiation directly onto a food item (32). Radiation sources (16, 18) can be positioned above and below the food item (32) and the inner walls (12) of the oven are preferably highly reflective to reflect light energy onto the food (32). The intensity of the radiation light source (16, 18) is automatically controllable and can be varied throughout the cooking cycle.

IPC 1-7

**F24C 7/04**; **F27D 11/02**; **H05B 3/00**

IPC 8 full level

**F24C 7/04** (2006.01); **A47J 27/62** (2006.01); **A47J 37/06** (2006.01); **F24C 7/00** (2006.01); **F24C 7/06** (2006.01); **F24C 7/08** (2006.01); **G01L 1/14** (2006.01); **G05D 1/08** (2006.01); **H05B 3/00** (2006.01)

CPC (source: EP US)

**F24C 7/006** (2013.01 - EP US); **F24C 7/06** (2013.01 - EP); **F24C 7/087** (2013.01 - EP); **G01L 1/144** (2013.01 - EP); **H05B 3/0076** (2013.01 - EP)

Citation (search report)

- [X] EP 0332081 A2 19890913 - ALGA DI GIUDICI ANGELAMARIA & [IT]
- See references of WO 9303310A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU MC NL SE

DOCDB simple family (publication)

**WO 9303310 A1 19930218**; AU 2417292 A 19930302; AU 667823 B2 19960418; CA 2114315 A1 19930218; EP 0613543 A1 19940907; EP 0613543 A4 19940706; JP H07500179 A 19950105

DOCDB simple family (application)

**US 9206266 W 19920729**; AU 2417292 A 19920729; CA 2114315 A 19920729; EP 92917140 A 19920729; JP 50369293 A 19920729