

Title (en)

Microwave oven provided with a thaw detector.

Title (de)

Mikrowellenofen mit einem Auftaufühler.

Title (fr)

Four à micro-ondes muni d'un capteur de décongélation.

Publication

EP 0296653 B1 19950913 (FR)

Application

EP 88201087 A 19880531

Priority

- FR 8707684 A 19870602
- FR 8714441 A 19871020

Abstract (en)

[origin: JPS6450384A] PURPOSE: To raise the temperature of a detecting unit and a product, and to measure the temperature of the detecting unit with a measuring element for optimal control by providing a microwave source and a material detecting unit, which absorbs the microwave energy, so that the microwave energy is absorbed by the detecting unit and the product. CONSTITUTION: Material of a detecting unit is insulated from outside by a heat insulating body having permeability in relation to the microwave so as to reduce the heat exchange and so that the temperature, to which the material to be heated achieves at the time of concluding the defrosting work, is increased and that the increase of the temperature becomes constant during the defrosting work having plural order. This detecting unit is made of the material 31, which can absorb the microwave, and the material 31 is made to contact with a temperature measuring element 32. This element 32 is connected to an external circuit by a lead wire 33. A microwave source 42 generates the microwave so that a product 41 and the detecting unit 30 are irradiated with the microwave. A result of measurement of the temperature of the detecting unit 30 is transmitted to a computing and control device 43 so as to change the operation of the microwave source.

IPC 1-7

H05B 6/68

IPC 8 full level

F24C 7/02 (2006.01); **H05B 6/68** (2006.01)

CPC (source: EP US)

H05B 6/666 (2013.01 - EP US)

Cited by

EP0360341A3; NL9202189A; FR2685772A1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

EP 0296653 A1 19881228; **EP 0296653 B1 19950913**; DE 3854452 D1 19951019; DE 3854452 T2 19960404; JP S6450384 A 19890227; US 4871891 A 19891003

DOCDB simple family (application)

EP 88201087 A 19880531; DE 3854452 T 19880531; JP 13452788 A 19880602; US 20216088 A 19880602