

Title (en)

MICROWAVE OVEN HAVING A DOOR-CLOSING SAFETY DEVICE

Publication

EP 0247668 B1 19910807 (FR)

Application

EP 87200890 A 19870514

Priority

FR 8607391 A 19860523

Abstract (en)

[origin: US4760229A] A microwave oven with a door-closing safety device is provided wherein a movable door comprises a device wherein the beam of at least one light emitter is guided by means of light guides towards a light beam detector. The light guides are arranged along a substantial portion of at least one side of the oven door frame. The beam of light in its non-guided path between the emitter and the detector passes through diaphragms, integral with the oven door, each diaphragm having an aperture such that the light beam passes through it when the door is properly closed but wherein the light beam is intercepted by the edge of the diaphragm when the door is not properly closed. The detector activates a signal that actuates the magnetron when the light beam is received; however, when the beam is intercepted, activation of the magnetron is prevented thereby preventing leakage of microwave energy.

IPC 1-7

H05B 6/66; **H05B 6/76**

IPC 8 full level

H05B 6/68 (2006.01); **F24C 7/02** (2006.01); **H05B 6/66** (2006.01); **H05B 6/76** (2006.01)

CPC (source: EP US)

H05B 6/6417 (2013.01 - EP US)

Cited by

EP0397209A3; WO2012062568A1

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

EP 0247668 A1 19871202; **EP 0247668 B1 19910807**; DE 3771931 D1 19910912; FR 2599127 A1 19871127; FR 2599127 B1 19890922; JP S62192108 U 19871207; US 4760229 A 19880726

DOCDB simple family (application)

EP 87200890 A 19870514; DE 3771931 T 19870514; FR 8607391 A 19860523; JP 7449087 U 19870520; US 5316487 A 19870521