

Title (en)

Microwave oven's door opening and closing detection apparatus using photo-detecting sensor.

Title (de)

Apparat mit Photodetektor zur Feststellung des Öffnens und Schliessens der Tür eines Mikrowellenherdes.

Title (fr)

Appareil pour détecter l'ouverture et la fermeture d'une porte de four à micro-ondes, utilisant une sonde photo-détective.

Publication

**EP 0436486 A1 19910710 (EN)**

Application

**EP 91100007 A 19910102**

Priority

KR 890020810 U 19891230

Abstract (en)

The invention relates to a microwave oven's door opening and closing detection apparatus using a photo-detecting sensor in order to detect a defect of a mechanical switch. It comprises a mechanical switch (20) for controlling a magnetron, a lever (5) actuated by a hook (2) attached to the door of the oven, a photo-detecting sensor (30) operating according to the lever (5) and a microprocessor receiving the output signals of the photo-detecting sensor (30) as well as the mechanical switch (20) and processing them for controlling the microwave oven by applying power to a transformer. It detects the state of the door by using the photo-detecting sensor (30) as well as the mechanical switch (20) and controls the microwave oven according to the state of the door by using the mounted microprocessor. <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

**H05B 6/6417** (2013.01)

Citation (search report)

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**EP 0436486 A1 19910710**; **EP 0436486 B1 19941012**; DE 69104504 D1 19941117; DE 69104504 T2 19950524; JP 2509977 Y2 19960904; JP H0587408 U 19931126

DOCDB simple family (application)

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