

Title (en)

Microwave oven with fire prevention

Title (de)

Mikrowellenofen mit Brandschutz

Title (fr)

Four à micro-ondes muni d'un système de prévention des incendies

Publication

**EP 1367860 A3 20050706 (EN)**

Application

**EP 02254898 A 20020711**

Priority

KR 20020030762 A 20020531

Abstract (en)

[origin: EP1367860A2] The microwave oven includes an alternating power source, a cooking timer (8) for setting cooking time, a relay (6a) for supplying the alternating power to a primary coil (7a) of a high voltage transformer (HVT), and a current limiting means (PTC) for attenuating a surge current produced when the alternating power is applied through the relay. The relay includes a relay coil (6a) and a relay switch (SWIR) responding to the operation of the cooking timer (8). The current limiting means is characterized in that its resistance increases in proportion to internal temperature of the current limiting means. Suitably, the current limiting means is a positive temperature coefficient (PTC) thermistor. <IMAGE>

IPC 1-7

**H05B 6/66**

IPC 8 full level

**H05B 6/66** (2006.01)

CPC (source: EP KR)

**H05B 6/6417** (2013.01 - EP); **H05B 6/66** (2013.01 - KR)

Citation (search report)

[X] EP 1058482 A2 20001206 - SAMSUNG ELECTRONICS CO LTD [KR]

Designated contracting state (EPC)

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**EP 1367860 A2 20031203**; **EP 1367860 A3 20050706**; CN 1463171 A 20031224; KR 20030092915 A 20031206

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**EP 02254898 A 20020711**; CN 02126544 A 20020723; KR 20020030762 A 20020531