

Title (en)

MICROWAVE OVEN AND METHOD OF DETERMINING FOOD.

Publication

**EP 0615400 A3 19941005 (EN)**

Application

**EP 94300552 A 19940126**

Priority

JP 5051993 A 19930311

Abstract (en)

[origin: EP0615400A2] Gaseous alcohol and steam emanating from food being heated are detected by an alcohol sensor (11) and a steam sensor (12) respectively. A control circuit (16) obtains maximum values V<sub>Amax</sub> and V<sub>Gmax</sub> serving as reference values from detection voltages generated by the alcohol and steam sensors (11, 12). Change rates DELTA A (V<sub>A</sub>/V<sub>Amax</sub>) and DELTA G (V<sub>G</sub>/V<sub>Gmax</sub>) are obtained on the basis of detection voltages V<sub>A</sub> and V<sub>G</sub> detected a predetermined time (40 seconds, for example) after initiation of the heating and a ratio r of the change rates is obtained from the expression,  $r = (1 - \text{DELTA A}) / (1 - \text{DELTA G})$ . The control circuit (16) compares a value of the ratio r with a threshold set for each kind of food to discriminate the kind of the food, thereby setting a subsequent heating time to execute the heating. Since the ratios r vary largely depending upon presence of an alcoholic component contained in the food, the kind of the food can be reliably discriminated. <IMAGE>

IPC 1-7

**H05B 6/68**; **H05B 6/80**

IPC 8 full level

**H05B 6/68** (2006.01); **H05B 6/80** (2006.01)

CPC (source: EP KR)

**H05B 6/6458** (2013.01 - EP); **H05B 6/68** (2013.01 - KR)

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