

Title (en)

Microwave oven and method of determining food

Title (de)

Mikrowellenofen und Verfahren zur Bestimmung des Lebensmittelproduktes

Title (fr)

Four à micro-ondes et procédé pour déterminer le produit alimentaire

Publication

EP 0615400 B1 20000712 (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_{Amax} and V_{Gmax} serving as reference values from detection voltages generated by the alcohol and steam sensors (11, 12). Change rates DELTA A (V_A/V_{Amax}) and DELTA G (V_G/V_{Gmax}) are obtained on the basis of detection voltages V_A and V_G 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

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IPC 8 full level

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CPC (source: EP KR)

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EP1489361A3; GB2293027A; US5681496A; EP3237805A4; US10009965B2

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