Title (en)

GAS DETECTION FOR MICROWAVE OVENS

Publication

EP 0477023 A3 19920722 (EN)

Application

EP 91308572 A 19910920

Priority

- KR 900015022 A 19900921
- KR 900015023 A 19900921

Abstract (en)

[origin: EP0477023A2] In a gas detecting circuit of a microwave oven, current flowing through a gas sensor (13) is constantly maintained even if the power supply voltage (Vcc) is varied. A voltage across the gas sensor (13) varies with the resistance of the gas sensor (13), depending upon an amount of gas produced in cooking food, and is supplied to a microcomputer (1) to correctly set a cooking time of food. The microcomputer (1) controls the entire cooking operation of food, and the circuit further comprises a power supply voltage input unit (2) for supplying an input voltage to operate the microcomputer (1), a gas sensor (13) for sensing an amount of gas produced in the microwave oven in cooking, an amplifier (12) for amplifying the differential value between a first voltage (Vx) divided from the power supply voltage and a second voltage (Vx min) having the same initial potential as that of the first voltage (Vx), and allowing the output potential Ve of the amplifier (12) to be varied on the basis of the variation of the resistance of the gas sensor (13), and a filtering means (14) for filtering ripple components of the output voltage (Ve). <IMAGE>

IPC 1-7

H05B 6/68

IPC 8 full level

H05B 6/68 (2006.01)

CPC (source: EP)

H05B 6/68 (2013.01)

Citation (search report)

- [A] US 4319110 A 19820309 TANABE TAKESHI, et al
- [A] EP 0050941 A1 19820505 KIDDE CONSUMER DURABLES [US]
- [A] EP 0148162 B1 19890510
- [A] GB 2171223 A 19860820 SHARP KK
- [A] GB 2119127 A 19831109 HITACHI HEATING APPL

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DOCDB simple family (publication)

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