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(54) **Range hood and control method thereof**

(57) Disclosed is a range hood (1) and a control method thereof. The range hood includes gas detection means (10) for detecting gas concentrations, and further includes: gas indication means (20) and control means, wherein the control means is used for controlling the gas indication means to display corresponding colors and/or brightness and/or images according to gas concentra-

tions information detected by the gas detection means. Thus, users can know current gas concentrations by observing the colors and/or brightness and/or images displayed by the gas indication means, to prevent occurrence of fire accidents, and can infer the cooking state, to bring convenience to cooking of the users. Meanwhile, the gas indication means also plays a decoration role.

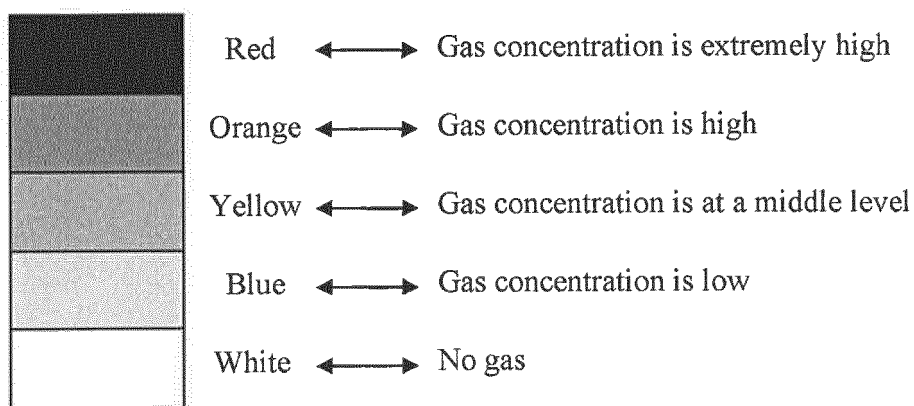


FIG. 2



EUROPEAN SEARCH REPORT

Application Number
EP 13 19 8067

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| ----- -/- | | | |
| The present search report has been drawn up for all claims | | | |
| Place of search The Hague | | Date of completion of the search 18 August 2016 | Examiner Jalal, Rashwan |
| CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document | | | |

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EPO FORM 1503 03.02 (P04C01)

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| The present search report has been drawn up for all claims | | | TECHNICAL FIELDS SEARCHED (IPC) |
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| The Hague | | 18 August 2016 | Jalal, Rashwan |
| CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document | | | |

EPO FORM 1503 03.82 (P04C01)



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☒ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

1-10, 12, 13

☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).

**LACK OF UNITY OF INVENTION
SHEET B**

Application Number

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-5, 12

Range hood in which the projection position of the
projection means is adjustable

2. claims: 6-10, 13

Range hood comprising communication means to alert the user
to the cooking state

3. claim: 11

Range hood comprising ultrasonic gas detection means

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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