

PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing (day/month/year)	23.12.2016
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Applicant's or agent's file reference WP20160003	FOR FURTHER ACTION See paragraph 2 below
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International application No. PCT/KR2016/009543	International filing date (day/month/year) 27.08.2016	Priority date (day/month/year) 28.08.2015
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International Patent Classification (IPC) or both national classification and IPC
A47J37/06 (2006.01) i

Applicant
HEO, Jinwoo

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/KR	Date of completion of this opinion	Authorized officer
Facsimile No.		Telephone No.

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Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:
 - the international application in the language in which it was filed
 - a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))
3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:
 - a. forming part of the international application as filed:
 - in the form of an Annex C/ST.25 text file.
 - on paper or in the form of an image file.
 - b. furnished together with the international application under PCT Rule 13ter.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
 - c. furnished subsequent to the international filing date for the purposes of international search only:
 - in the form of an Annex C/ST.25 text file (Rule 13ter.1(a)).
 - on paper or in the form of an image file (Rule 13ter.1(b) and Administrative Instructions, Section 713).
4. In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that forming part of the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1. Statement	Novelty (N)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Claims</td> <td style="border-bottom: 1px solid black;">1-3</td> <td style="width: 10%; text-align: right;">YES</td> </tr> <tr> <td>Claims</td> <td style="border-bottom: 1px solid black;">None</td> <td style="text-align: right;">NO</td> </tr> </table>	Claims	1-3	YES	Claims	None	NO
Claims	1-3	YES						
Claims	None	NO						
	Inventive step (IS)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Claims</td> <td style="border-bottom: 1px solid black;">1-3</td> <td style="width: 10%; text-align: right;">YES</td> </tr> <tr> <td>Claims</td> <td style="border-bottom: 1px solid black;">None</td> <td style="text-align: right;">NO</td> </tr> </table>	Claims	1-3	YES	Claims	None	NO
Claims	1-3	YES						
Claims	None	NO						
	Industrial applicability (IA)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Claims</td> <td style="border-bottom: 1px solid black;">1-3</td> <td style="width: 10%; text-align: right;">YES</td> </tr> <tr> <td>Claims</td> <td style="border-bottom: 1px solid black;">None</td> <td style="text-align: right;">NO</td> </tr> </table>	Claims	1-3	YES	Claims	None	NO
Claims	1-3	YES						
Claims	None	NO						
<p>2. Citations and explanations:</p> <p style="margin-top: 20px;">Reference is made to the following documents:</p> <p>D1: KR 20-2010-0002316 U (KIM, Seon Ki) 05 March 2010</p> <p>D2: KR 10-1999-0007621 A (KIM, Seon Hoi) 25 January 1999</p> <p>D3: KR 20-0475939 Y1 (LEE, Young Ku) 15 January 2015</p> <p>D4: KR 10-1379180 B1 (JEONG, Myeong Hun et al.) 31 March 2014</p> <p>D5: KR 20-2012-0005098 U (YUN, Soon Seon) 12 July 2012</p> <p style="margin-top: 20px;">1. Novelty and Inventive Step</p> <p style="margin-left: 20px;">1.1. Claims 1 to 3</p> <p style="margin-left: 40px;">1.1.1. Independent Claim: Claim 1</p> <p style="margin-top: 20px;">In relation to claim 1, document D1 discloses a clay charcoal grilling apparatus for a barbecue, comprising: a body (10), which has an opening at a front side thereof, and includes a roasting chamber (11) and guide rails (16a, 16c) installed in the roasting chamber; grill</p>								

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drawers (20a, 20b) each having a grill (21) coupled to the inside of a frame (22) forming a quadrangle frame; and a charcoal box mounting drawer (30), which includes a front plate (32) having a knob (33) and integrally formed on a frame (31) forming a quadrangle frame and allows a charcoal box (34) containing charcoal to be supported thereon (claims 1 and 4, and figures 1 and 5).

In relation to claim 1, document D2 discloses a charcoal grill plate comprising a foreign matter receiver, the charcoal grill plate comprising: a foreign matter receiver support (6) having a catching protrusion shape and allowing a foreign matter receiver (3) to be fitted in and engaged with the vicinity portion of the bottom edge of a grilling part (2); and the foreign matter receiver (3) which is formed to have a size fittable into the foreign matter receiver support (6) below the grilling part (2) and includes a grate (3a) having a U-shaped cross-section, so as to receive and store a foreign matter falling from meat put on the grilling part (2) (see page 2 and figure 2).

In relation to claim 1, document D3 discloses a gridiron for direct-fire grilling, comprising an discharge port formed in the outer portion thereof and capable of receiving oil, wherein a plurality of wires are formed to have a cross-section of any one of V-shaped, U-shaped, and U-shaped in order to transfer oil generated when meat is grilled on a first and a second gridiron part (see paragraphs [0008]-[0046] and figures 1-4).

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Claim 1 is different from document D1 in that a charcoal grill for direct-fire grilling comprises: an oil receiving plate including storage spaces formed therein, which are partitioned from through-holes thereof by means of protrusion thresholds protruding upward from peripheries of the through-holes and are aligned with openings of a grill plate located on the same vertical line, wherein the storage spaces are configured to store water, which evaporates and provides steam heat when meat is grilled, and are formed to communicate with each other so as to allow the water stored therein or oil to be stored to maintain the same level. Further, said difference is neither disclosed in the other cited documents (D2-D5) nor would be obvious to a person skilled in the art even in light of the cited documents. Therefore, claim 1 is novel under PCT Article 33(2) and involves an inventive step under PCT Article 33(3).

1.1.2 Dependent Claims: Claims 2 and 3

Claims 2 and 3 are dependent claims directly referring to claim 1, and are thus novel under PCT Article 33(2) and involve an inventive step under PCT Article 33(3).

2. Industrial Applicability

The invention as set forth in claims 1 to 3 is industrially applicable under PCT Article 33(4).