

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

To:

MAHAMEDI, Zurvan
1901 S. Bascom Ave., Suite 600
Campbell, California 95008
United States of America

Date of mailing (<i>day/month/year</i>) 21 February 2018 (21.02.2018)		FOR FURTHER ACTION See paragraph 2 below	
Applicant's or agent's file reference CHENP005CIP1			
International application No. PCT/US 2017/061406	International filing date (<i>day/month/year</i>) 13 November 2017 (13.11.2017)	Priority date (<i>day/month/year</i>) 10 November 2016 (10.11.2016)	
International Patent Classification (IPC) or both national classification and IPC A47J 44/00 (2006.01) G05B 19/042 (2006.01)			
Applicant SERENETE CORPORATION			

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 43*bis*.1(a)(i) with regard to novelty, inventive step and 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 66.1*bis*(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/RU: Federal Institute of Industrial Property, Berezhkovskaya nab., 30-1, Moscow, G-59, GSP-3, Russia, 125993 Facsimile No: (8-495) 531-63-18, (8-499) 243-33-37	Date of completion of this opinion 15 February 2018 (15.02.2018)	Authorized officer S. Zhuravlev Telephone No. 8 (495)-531-64-81
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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US 2017/061406

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 43*bis*.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 filed or furnished:
 - 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 13*ter*.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 13*ter*.1(a)).
 - on paper or in the form of an image file (Rule 13*ter*.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 in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/US 2017/061406

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	_____	YES
	Claims	_____ 1-20 _____	NO
Inventive step (IS)	Claims	_____	YES
	Claims	_____	NO
Industrial applicability (IA)	Claims	_____ 1-20 _____	YES
	Claims	_____	NO

2. Citations and explanations:

D1 – WO 2015/195985 A1

D1 discloses a food preparation device (abstract) comprising: a cooking surface ([0045]), a manipulator ([0053]), a camera (Fig. 2, [0090]), a processor ([0090]): to detect one or more food items being cooked on the cooking surface ([00127]); determine one or more cooking attributes of the one or more food items being cooked on the cooking surface ([0033], [00170]); and control the manipulator to perform one or more cooking operations based at least in part on the one or more cooking attributes ([0097]).

Therefore, the invention according of claim 1 doesn't meet the criterion of novelty.

D1 discloses a method for a food preparation device (Fig. 5, [0020]); comprising: detecting one or more food ingredients being cooked on a cooking surface ([0048], [00127]); determining cooking attributes of the food ingredients being cooked on the surface ([0033], [00170]); and control a manipulator to perform one or more cooking operations based at least in part on the one or more cooking attributes ([0097], claim 1).

Therefore, the invention according of independent claim 14 doesn't meet the criterion of novelty.

Regarding the dependent claims 2-13, 15-20 the following is reported.

D1 also discloses determining a value for each attribute of the food being cooked [claims 2, 15] ([0033]); processor is to monitor the cooking attributes in response to the detection of an item [claims 3, 16] ([00169]); monitoring comprising monitoring a change in values and processor to control the manipulator [claims 4, 17] ([00115], [00126]); processor to track the position of item [claims 5-6, 18-19] ([0035], [00107]); device comprise a temperature sensor to generate data of the food item being cooked [claim 7] ([0095]); the processor is further to obtain a recipe and based on recipe determine a time of cooking [claim 8] ([0097]); obtain one or more images of the surface from the camera, utilize images and select a classifier to associate with each food item detected from the image [claims 9, 20] ([00165], [00104]); image recognition on the cooking surface to monitor position of the food item [claim 10] ([00107], [00148]); stirring of the manipulator and vertical positioning of the food items [claim 11] ([0096], [00125], [00148]); the attributes comprise a color, a shape or texture of the item [claim 12] ([00167]); a camera obtains image of the cooking surface and processor detects food item being cooked by performing image recognition [claim 13] ([00135]).

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of V:

Therefore, the invention according of dependent claims 2-13, 15-20 doesn't meet the criterion of novelty.

The invention according of claims 1-20 meet the criterion of industrial applicability.