

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PIOM1173620P	FOR FURTHER ACTION		See item 4 below
International application No. PCT/CN2017/095058	International filing date (<i>day/month/year</i>) 28 July 2017 (28.07.2017)	Priority date (<i>day/month/year</i>) 30 September 2016 (30.09.2016)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant WUXI FILIN ELECTRONICS CO., LTD.			

<p>1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p>In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.</p>																								
<p>3. This report contains indications relating to the following items:</p> <table> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. I</td> <td>Basis of the report</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. II</td> <td>Priority</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table> <p>4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).</p>	<input checked="" type="checkbox"/>	Box No. I	Basis of the report	<input checked="" type="checkbox"/>	Box No. II	Priority	<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/>	Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/>	Box No. VI	Certain documents cited	<input type="checkbox"/>	Box No. VII	Certain defects in the international application	<input type="checkbox"/>	Box No. VIII	Certain observations on the international application
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	Date of issuance of this report 02 April 2019 (02.04.2019)
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From the INTERNATIONAL SEARCHING AUTHORITY

To:

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Applicant's or agent's file reference PIOM1173620P		Date of mailing (day/month/year) 22 March 2018
		FOR FURTHER ACTION See paragraph 2 below
International application No. PCT/CN2017/095058	International filing date (day/month/year) 28 July 2017	Priority date (day/month/year) 30 September 2016
International Patent Classification (IPC) or both national classification and IPC D06F 58/28(2006.01)i		
Applicant WUXI FILIN ELECTRONICS CO., LTD.		

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 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 66.1bis(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/	Date of completion of this opinion	Authorized officer

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/CN2017/095058

Box No. I Basis of the 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. (means)
 - on paper
 - in electronic form
 - b. (time)
 - in the international application as filed
 - together with the international application in electronic form
 - subsequently to this Authority for the purposes of search
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/CN2017/095058

Box No. II **Priority**

1. The validity of the priority claim has not been considered because the International Searching Authority does not have in its possession a copy of the earlier application whose priority has been claimed or, where required, a translation of that earlier application. This opinion has nevertheless been established on the assumption that the relevant date (Rules 43*bis*.1 and 64.1) is the claimed priority date.
2. This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43*bis*.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.
3. Additional observations, if necessary:
 - [1] Upon verification, the priority claim is established.

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/CN2017/095058

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	<u>1-10</u>	YES
	Claims	<u>None</u>	NO
Inventive step (IS)	Claims	<u>1-10</u>	YES
	Claims	<u>None</u>	NO
Industrial applicability (IA)	Claims	<u>1-10</u>	YES
	Claims	<u>None</u>	NO

2. Citations and explanations :

[1] Reference is made to the following document:

[2] D1: KR 20050018036 A 23 February 2005

[3] 1. Novelty

[4] 1.1 Independent claim 1 relates to a method for calculating the moisture value in clothes in a clothes dryer. D1 discloses a method for measuring the dryness in a washing machine (description, detailed description of the preferred embodiments, and fig. 1-3), comprising: inputting and recording dryness measured at predetermined time intervals (equivalent to acquiring multiple sample points of a moisture sensor in a first time period); and calculating the average value.

[5] Hence, claim 1 differs from D1 in that: the calculating method specifically comprises: extracting maximum values of the multiple sample points and generating an accumulated value of the maximum values; generating an average value from multiple accumulated values of maximum values in a second time period; obtaining current maximum values of multiple current sample points in a current first time period; and generating the current moisture value according to the current maximum values and the average value. D1 does not disclose all the technical features of claim 1. Therefore, claim 1 and dependent claims 2-5 thereof are novel in the sense of PCT Article 33(2).

[6] 1.2 Independent claim 6 relates to a device for calculating the moisture value in clothes in a clothes dryer. D1 discloses a device for measuring the dryness in a washing machine (description, detailed description of the preferred embodiments, and fig. 1-3), comprising: a control means 300 for inputting and recording dryness measured at predetermined time intervals and calculating the average value.

[7] Hence, claim 6 differs from D1 in respect of: the specific acquisition modules and generation modules, and functions completed by the modules. D1 does not disclose all the technical features of claim 6. Therefore, claim 6 and dependent claims 7-9 thereof, and independent claim 10 comprising the calculating device according to any one of claims 6-9 are novel in the sense of PCT Article 33(2).

[8] 2. Inventive step

[9] 2.1 On the basis of the differences between claims 1 and 6 and D1, the technical problem essentially solved by claims 1 and 6 is to obtain the moisture value more accurately. The differences are not disclosed by other prior art and are likewise not common general knowledge in the art, and make the drying effect controlled according to the moisture value more perfect. Therefore, claims 1 and 6 involve an inventive step in the sense of PCT Article 33(3).

[10] 2.2 Because claims 1 and 6 involve an inventive step, dependent claims 2-5 and 7-9 thereof, and independent claim 10 comprising the calculating device according to any one of claims 6-9 also involve an inventive step in the sense of PCT Article 33(3).

[11] 3. Industrial applicability

[12] The subject matter of claims 1-10 can be made and used in the field of washing machines, and therefore, claims 1-10 are industrially applicable in the sense of PCT Article 33(4).