

**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 ZL092851662	<b>FOR FURTHER ACTION</b>		See item 4 below
International application No. PCT/CN2016/109262	International filing date ( <i>day/month/year</i> ) 09 December 2016 (09.12.2016)	Priority date ( <i>day/month/year</i> ) 08 December 2016 (08.12.2016)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant JIANGSU YUEDA HOME TEXTILE 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 11 June 2019 (11.06.2019)
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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 <b>ZL092851662</b>		Date of mailing (day/month/year) <b>25 August 2017</b>
<b>FOR FURTHER ACTION</b> See paragraph 2 below		
International application No. <b>PCT/CN2016/109262</b>	International filing date (day/month/year) <b>09 December 2016</b>	Priority date (day/month/year) <b>08 December 2016</b>
International Patent Classification (IPC) or both national classification and IPC D03D 49/20(2006.01)i; B65H 23/038(2006.01)i		
Applicant <b>JIANGSU YUEDA HOME TEXTILE CO., LTD.</b>		

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
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WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/CN2016/109262

## 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.

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**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 right of priority for claims 1-10 is valid.

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

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<b>Box No. V</b>	<b>Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement</b>		
1. Statement	Novelty (N)	Claims	1-10 _____ YES None _____ NO
	Inventive step (IS)	Claims	1-10 _____ YES None _____ NO
	Industrial applicability (IA)	Claims	1-10 _____ YES None _____ NO
2. Citations and explanations :			
[1] The following document is cited: D1: CN 200958163 Y			
[2] I. Novelty			
[3] 1. Claim 1 sets forth a cloth leveling system suitable for a rapier loom. D1 discloses a wrinkle elimination winding device for a rapier loom (equivalent to a cloth leveling system suitable for a rapier loom), and discloses (description, page 2, paragraphs 1 and 2 from the bottom, and figures 3 and 4) that the wrinkle elimination winding device for a rapier loom is mounted between a cloth-winding roller 4 (equivalent to a cloth-collecting roller) and licker-in roller 2 (equivalent to a cloth transfer roller) at the tail of a rapier loom, and the wrinkle elimination winding device for a rapier loom is composed of an expanding roller 4 and an expanding roller 5. Comparing claim 1 with D1, the difference lies in that the specific structure of the cloth leveling system is different. Therefore, claim 1 and its dependent claims 2-6 are novel under PCT Article 33(2).			
[4] 2. Claim 7 sets forth an operation method for the cloth leveling system suitable for a rapier loom of claims 1-6. D1 discloses the wrinkle elimination winding device for a rapier loom, and since the specific structure of the cloth leveling system of claims 1-6 is different from that of the wrinkle elimination winding device for a rapier loom disclosed in D1, the corresponding operation method therefor is also different, that is to say, D1 does not disclose the operation method of claim 7, and therefore, claim 7 and its dependent claims 8-10 are novel under PCT Article 33(2).			
[5] II. Inventive step			
[6] 1. Based on the above-mentioned distinguishing feature, the problem to be actually solved by claim 1 is how to make the cloth leveling system precisely level different types and specifications of cloth. The cloth leveling system of claim 1 is neither disclosed in the prior art, nor common technical means in the art; by means of a signal transmission device on an adjusting roller matching signal receiving devices on a cloth-collecting roller and a cloth transfer roller, the system precisely controls the position of limit circular rings on the adjusting roller, thus ensuring the leveling of collected cloth on the cloth-collecting roller; and by means of adjusting the spacing between two limit circular rings on the adjusting roller, production needs for different types and specifications of cloth can be satisfied. Therefore, claim 1 involves an inventive step under PCT Article 33(3).			
[7] Based on the same reasoning, the operation method for the cloth leveling system suitable for a rapier loom of claims 1-6 that is set forth by claim 7 also involves an inventive step under PCT Article 33(3).			
[8] 2. On the basis that claims 1 and 7 involve an inventive step, dependent claims 2-6 and 8-10 also involve an inventive step under PCT Article 33(3).			
[9] III. Industrial applicability			
[10] Claims 1-10 can be made in industry, and are industrially applicable under PCT Article 33(4).			