

**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 JY2017P029	<b>FOR FURTHER ACTION</b>		See item 4 below
International application No. PCT/CN2017/086295	International filing date ( <i>day/month/year</i> ) 27 May 2017 (27.05.2017)	Priority date ( <i>day/month/year</i> ) 30 December 2016 (30.12.2016)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant ZHEJIANG SIDOO ELECTRICAL APPLIANCE 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 6 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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<p align="center">The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No. +41 22 338 82 70</p>	<p>Date of issuance of this report 06 August 2019 (06.08.2019)</p>
	<p>Authorized officer</p> <p align="right"><b>Xin Wang</b></p> <p>e-mail: pct.team2@wipo.int</p>

From the INTERNATIONAL SEARCHING AUTHORITY

To:

**PCT**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing (day/month/year)		<b>14 June 2019</b>
Applicant's or agent's file reference <b>JY2017P029</b>		<b>FOR FURTHER ACTION</b> See paragraph 2 below
International application No. <b>PCT/CN2017/086295</b>	International filing date (day/month/year) <b>27 May 2017</b>	Priority date (day/month/year) <b>30 December 2016</b>
International Patent Classification (IPC) or both national classification and IPC A61G 7/015(2006.01)i		
Applicant <b>ZHEJIANG SIDOO ELECTRICAL APPLIANCE 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

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

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## 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:
  - 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 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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INTERNATIONAL SEARCHING AUTHORITY

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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 priority claim of the present application is valid.

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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	1-9 None
			YES NO
	Inventive step (IS)	Claims	2-4 1, 5-9
			YES NO
	Industrial applicability (IA)	Claims	1-9 None
			YES NO
2. Citations and explanations :			
[1] D1: CN 2698313 Y (11 May 2005)			
[2] D2: CN 2380120 Y (31 May 2000)			
[3] D1 discloses a telescopic foldable stretcher, consisting of two longitudinal folding rod components 1 and two transverse folding rod components 2. Front and rear of the two transverse folding rod components are hingedly connected to inner sides of the two longitudinal folding rod components. The transverse and longitudinal folding rod components are connected by means of bendable joints. The transverse folding rod component 2 comprises two support rods 22 (two straight sections) on both edges. The two support rods are connected by means of intermediate connection blocks 21 as folding joints. The longitudinal folding rod components are formed by hingedly connecting two intermediate support tube components 11 to two support tube components 12 on both edges by means of pin shafts 13 (multiple straight sections). The intermediate support tube component consists of an intermediate support tube 111 and two transverse hinge piece components 112 transversely connected to front and rear ends of the intermediate support tube. An edge support tube component consists of a transverse hinge piece component 122 and a longitudinal hinge piece component 123 longitudinally connected to the inner side of an edge support tube 121, i.e., multiple straight sections of the longitudinal folding rod components are connected by means of bendable joints (claims 1-5, description, p. 3, line 1 to p. 4, the last line, and fig. 1-16).			
[4] D2 discloses a folding mattress, comprising a bed frame 1, springs 3, spring bases 8, spring supports 4, a bed net 5, a pad, etc. The bed net is fixedly mounted on an upper surface of the frame 1. Multiple spring supports 4 are fixed in parallel between upper and lower surfaces of the frame 1. A spring base is fixed on each spring support. Springs are mounted on the spring bases. Multiple barrel pocket springs are arranged in a matrix (claims 1 and 2, description, p. 2, lines 10-22, and fig. 1-7).			
[5] 1. Novelty			
[6] Neither D1 nor D2 directly or implicitly discloses all the technical features of claim 1 or 7. Therefore, independent claims 1 and 7 and dependent claims 2-6, 8, and 9 thereof comply with PCT Article 33(2).			
[7] 2. Inventive step			
[8] (1) D1 is the prior art document closest to claim 1. Claim 1 differs from D1 in that: straight sections of transverse baffles and longitudinal baffles of a bed frame are made of PVC, and PVC straight sections of the longitudinal baffles are connected by means of bidirectionally bendable joints. In order to achieve the folding and bending of the folding bed frame at a greater angle, applying the folding frame used for a stretcher to the bed as a bed frame, and configuring multiple straight sections of the longitudinal rod components to be connected by means of bidirectionally bendable joints would be easily conceived of by a person skilled in the art. The PVC material is also a common manufacturing material of the bed frame, without involving an inventive effort.			
[9] (2) The additional technical features of claims 5 and 6 are matters of routine design in the art.			
[10] (3) D2 is the prior art document closest to claim 7. Claim 7 differs from D2 in that: a soft decorative outer package is provided outside the bed frame of an all-joint integrated mattress; an upper sealing pad is laid outside the bed frame and barrel pocket springs; and in respect of the folding bed frame according to any one of claims 1-6. Providing the soft decorative package and the upper sealing pad on the mattress is a matter of routine design in the art. D1 discloses a folding bed frame. In order to fold and bend the folding			

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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**

mattress at a greater angle, a person skilled in the art would easily conceive of applying the frame of the foldable stretcher in D1 to the folding mattress in D2 as the bed frame to obtain the all-joint integrated mattress, without involving an inventive effort.

- [11] (4) The additional technical features of claims 8 and 9 are matters of routine design in the art.
- [12] In conclusion, claims 1 and 5-9 do not comply with PCT Article 33(3).
- [13] 3. Industrial applicability
- [14] The technical solutions of claims 1-9 can be made and used in industry, and therefore, claims 1-9 comply with PCT Article 33(4).