

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

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TEE&HOWE INTELLECTUAL PROPERTY
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PCT

WRITTEN OPINION OF THE
 INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing (day/month/year) 28 March 2018	
Applicant's or agent's file reference UP-170871-02	FOR FURTHER ACTION See paragraph 2 below
International application No. PCT/CN2017/092070	International filing date (day/month/year) 06 July 2017
International Patent Classification (IPC) or both national classification and IPC G02F 1/1335(2006.01)i	
Applicant BOE TECHNOLOGY GROUP CO., LTD. et al	

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/ STATE INTELLECTUAL PROPERTY OFFICE OF THE P.R.CHINA China 6, Xitucheng Rd., Jimen Bridge, Haidian District, Beijing 100088	Date of completion of this opinion 22 March 2018	Authorized officer LI, Yan
Facsimile No. (86—10) 62019451	Telephone No. (86-10)53962574	

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 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
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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	<u>1-24</u>	YES
	Claims	<u>NONE</u>	NO
Inventive step (IS)	Claims	<u>NONE</u>	YES
	Claims	<u>1-24</u>	NO
Industrial applicability (IA)	Claims	<u>1-24</u>	YES
	Claims	<u>NONE</u>	NO

2. Citations and explanations :

- [1] The following document is referred to in this opinion:
- [2] D1:JP2005107306A 21.04.2005
- [3] A.Novelty
- [4] D1 discloses a peep-proof apparatus and A method of fabricating it(see description paragraphs[0027]-[0032], figures 10-13): the apparatus can switch a viewing angle of a display panel between a first viewing angle and a second viewing angle, and the apparatus comprises a first liquid crystal layer and a second liquid crystal layer on one side of the first liquid crystal layer; a first controller configured to control the first liquid crystal layer to switch between being light transmissive and being light blocking(see figure 13) in the first regions spaced apart from each other while other regions in the first liquid crystal layer being light transmissive; a second controller configured to control the second liquid crystal layer to switch between being light transmissive and being light blocking in the second regions spaced apart from each other while other regions in the second liquid crystal layer being light transmissive. The first viewing angle corresponds to both the first regions and the second regions being light blocking; the second viewing angle corresponds to both the first regions and the second regions being light transmissive; the first viewing angle is smaller than the second viewing angle.
- [5] The difference between the claims 1, 24 and D1 is: the apparatus comprises a base substrate, and the first liquid crystal layer is on the base substrate.
- [6] Therefore the claims 1-24 are novel and comply with PCT 33(2).
- [7] B. Inventive step
- [8] The difference is a common practice for a person skilled in the art. Therefore the claims 1,24 don't comply with PCT 33(3).
- [9] The additional features of claims 2,14 are disclosed by D1(see description paragraphs[0027]-[0032], figures10-13), therefore the claims 2,14 don't comply with PCT 33(3).
- [10] The additional features of claims 3,4 are common practices for a person skilled in the art, therefore the claims 3,4 don't comply with PCT 33(3).
- [11] The additional features of claims 5-7 are disclosed by D1(see figures13,30), therefore the claims 5-7 don't comply with PCT 33(3).
- [12] The additional features of claims 8-13,15,16 are common practices for a person skilled in the art, therefore the claims 8-13,15,16 don't comply with PCT 33(3).
- [13] Independent claim 17 cites one of claims 1-16, and D1 further discloses a display apparatus(description paragraphs [0027]-[0032], figures 10-13), which is switchable between a privacy mode and a non-privacy mode. Therefore the claim17 doesn't comply with PCT 33(3).
- [14] Independent claim 18 cites claim 17, and D1 further discloses the method of operating the display apparatus (description paragraphs [0027]-[0032], figures 10-13), therefore the claim 18 doesn't comply with PCT 33(3).

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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**

- [15] The additional features of claims 19,21,23 are disclosed by D1(see description paragraphs[0027]-[0032], figures10-13), therefore the claims 19,21,23 don't comply with PCT 33(3).
- [16] The additional features of claims 20,22 are common practices for a person skilled in the art, therefore the claims 20,22 don't comply with PCT 33(3).
- [17] C. Industrial applicability
- [18] Claims 1-24 can find industrial applicability, and they meet PCT 33(4).