

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 F17W0365	FOR FURTHER ACTION	See item 4 below
International application No. PCT/CN2017/087642	International filing date (<i>day/month/year</i>) 09 June 2017 (09.06.2017)	Priority date (<i>day/month/year</i>)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant DOW GLOBAL TECHNOLOGIES LLC		

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).																								
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.																								
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.																									
3.	This report contains indications relating to the following items: <table style="width: 100%;"> <tr> <td style="width: 5%; text-align: center;">☒</td> <td style="width: 25%;">Box No. I</td> <td style="width: 70%;">Basis of the report</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Box No. II</td> <td>Priority</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td style="text-align: center;">☒</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 style="text-align: center;">☐</td> <td>Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td style="text-align: center;">☒</td> <td>Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td style="text-align: center;">☐</td> <td>Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table>	☒	Box No. I	Basis of the report	☐	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 Article 35(2) with regard to novelty, inventive step or 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
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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).																								

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Date of issuance of this report 10 December 2019 (10.12.2019)</td> </tr> <tr> <td style="padding: 5px;"> Authorized officer Xiaofan Tang </td> </tr> <tr> <td style="padding: 5px;">e-mail: pct.team2@wipo.int</td> </tr> </table>	Date of issuance of this report 10 December 2019 (10.12.2019)	Authorized officer Xiaofan Tang	e-mail: pct.team2@wipo.int
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Authorized officer Xiaofan Tang				
e-mail: pct.team2@wipo.int				

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:

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China Room 305, Tower B, BEIJING AEROSPACE
CPMIEC BUILDING, No. 30, Haidian South Road,
Haidian District, Beijing

WU, FENG & ZHANG CO.

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing

(day/month/year)

24 February 2018

Applicant's or agent's file reference

F17W0365

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/CN2017/087642

International filing date (day/month/year)

09 June 2017

Priority date (day/month/year)

International Patent Classification (IPC) or both national classification and IPC

B32B 27/30(2006.01)i

Applicant

DOW GLOBAL TECHNOLOGIES LLC 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

13 February 2018

Authorized officer

JIA, Junlin

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Telephone No. (86-10)53962919

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/CN2017/087642

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 43bis.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/CN2017/087642

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	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%; vertical-align: top;">Novelty (N)</td> <td style="width: 35%; border-bottom: 1px solid black;">Claims 1-15</td> <td style="width: 30%; text-align: right; vertical-align: bottom;">YES</td> </tr> <tr> <td></td> <td style="border-bottom: 1px solid black;">Claims None</td> <td style="text-align: right; vertical-align: bottom;">NO</td> </tr> <tr> <td style="vertical-align: top;">Inventive step (IS)</td> <td style="border-bottom: 1px solid black;">Claims 1-15</td> <td style="text-align: right; vertical-align: bottom;">YES</td> </tr> <tr> <td></td> <td style="border-bottom: 1px solid black;">Claims None</td> <td style="text-align: right; vertical-align: bottom;">NO</td> </tr> <tr> <td style="vertical-align: top;">Industrial applicability (IA)</td> <td style="border-bottom: 1px solid black;">Claims 1-15</td> <td style="text-align: right; vertical-align: bottom;">YES</td> </tr> <tr> <td></td> <td style="border-bottom: 1px solid black;">Claims None</td> <td style="text-align: right; vertical-align: bottom;">NO</td> </tr> </table>	Novelty (N)	Claims 1-15	YES		Claims None	NO	Inventive step (IS)	Claims 1-15	YES		Claims None	NO	Industrial applicability (IA)	Claims 1-15	YES		Claims None	NO
Novelty (N)	Claims 1-15	YES																	
	Claims None	NO																	
Inventive step (IS)	Claims 1-15	YES																	
	Claims None	NO																	
Industrial applicability (IA)	Claims 1-15	YES																	
	Claims None	NO																	
2. Citations and explanations :	[1] Reference is made to the following document: [2] D1: US3713965A [4] D1 discloses a two-layered thermoplastic, coextruded, heat-shrinkable packaging film consisting essentially of a first layer of a normally crystalline vinylidene chloride-vinyl chloride copolymer and a second layer of a copolymer of from about 72-83 percent by weight ethylene and from about 17-28 percent by weight vinyl acetate, said copolymer having a melt index of from about 2-20 and preferably between about 2 and 6; and having blended therewith at least 1 percent by weight calcium carbonate and at least 3 percent by weight of a fatty acid amide of the formula: $RCONH_2$, wherein R is alkyl having from 10 to about 22 carbon atoms (see column 1, line 58-line 72). [6] I . Novelty [7] Neither D1 nor other prior art discloses the same multilayer film as claim 1, the same laminates as claims 7 and 8. Therefore, the subject matter of claims 1, 7 and 8 is novel and meets the criteria set out in Article 33 (2) PCT. [8] Claims 2-6, and 9-15 are dependent directly and/or indirectly on claims 1 and 8, thus meets the criteria set out in Article 33 (2) PCT. [10] II . Inventive step [11] D1 is regarded as the closest prior art. The subject matter of claim 1 differs from D1 at least in that the density, the melting index and the melting points defined. The above technical features are neither indicated nor obviously rendered from the prior art. Therefore, the subject matter of claim 1 involves an inventive step in the sense of PCT Article 33 (3). Similarly, the subject matter of independent claims 7 and 8 also involves an inventive step in the sense of PCT Article 33 (3). [12] Claims 2-6, and 9-15 are dependent directly and/or indirectly on claims 1 and 8, thus meets the criteria set out in Article 33 (3) PCT. [14] III . Industrial applicability [15] The inventions of claims 1-15 can find industrial applicability in the technical field of multilayer film, and thus meet the criteria of Article 33 (4) PCT.																		

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/CN2017/087642

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

- [1] Claims 4-6 and 11-15 are multiple dependent claims, but they refer to preceding multiple dependent claims, therefore, claims 4-6 and 11-15 do not meet PCT Rule 6.4(a).