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
P070259PCT2

FOR FURTHER ACTION
See item 4 below

International application No.
PCT/US2011/051562

International filing date (day/month/year)
14 September 2011 (14.09.2011)

Priority date (day/month/year)
14 September 2010 (14.09.2010)

International Patent Classification (8th edition unless older edition indicated)
See relevant information in Form PCT/ISA/237

Applicant
SABIC INNOVATIVE PLASTICS IP B.V.

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:

   - 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

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).

Date of issuance of this report
19 March 2013 (19.03.2013)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer
Simin Baharlou

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e-mail: pt09.pct@wipo.int

Form PCT/IB/373 (January 2004)
PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY
(PCT Rule 43bis.1)

Date of mailing
\(\text{day/month/year}\) see form PCT/ISA210 (second sheet)

FOR FURTHER ACTION
See paragraph 2 below

<table>
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<th>International application No.</th>
<th>International filing date (\text{day/month/year})</th>
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International Patent Classification (IPC) or both national classification and IPC
INV. D04H1/541

Applicant
SABIC INNOVATIVE PLASTICS IP B.V.

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)(ii) 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 usually 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/ISA220 or before the expiration of 22 months from the priority date, whichever expires later.

   For further options, see Form PCT/ISA220.

3. For further details, see notes to Form PCT/ISA220.

Name and mailing address of the ISA:
European Patent Office
P. B. 5818 Patentlaan 2
NL-2280 HV Rijswijk - Pays Bas
Tel: +31 70 340 - 2040
Fax: +31 70 340 - 3016

Date of completion of this opinion
see form PCT/ISA210

Authorized Officer
Mirza, Anita
Telephone No. +31 70 340-4096

Form PCT/ISA237 (Cover Sheet) (July 2009)
Box No. 1  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:
Box No. IV  Lack of unity of invention

1. ☑ In response to the invitation (Form PCT/ISA/206) to pay additional fees, the applicant has, within the applicable time limit:
   ☑ paid additional fees
   ☐ paid additional fees under protest and, where applicable, the protest fee
   ☐ paid additional fees under protest but the applicable protest fee was not paid
   ☐ not paid additional fees

2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
   ☐ complied with
   ☑ not complied with for the following reasons:

   see separate sheet

4. Consequently, this report has been established in respect of the following parts of the international application:
   ☐ all parts.
   ☑ the parts relating to claims Nos. 1-37

Box No. V  Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

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</table>

2. Citations and explanations
   see separate sheet
Re Item V (2nd invention, cl. 14-37)

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

State of the art

Reference is made to the following document:

D1 discloses a composite comprising a network comprising a plurality of reinforcing fibers (see D1, [0035] and a matrix comprising polyimide fibers (see D1, [0028]) and polymeric binder fibers (see D1, [0034]), wherein the polymeric binder has a melt temperature lower than polyimide (see D1, [0036] - [0044]) and wherein the composite has a minimum degree of loft of greater or equal to three (see D1, example 2).

Thus, D1 discloses all features of claim 14 and therefor the subject-matter of claim 14 is not new.

Dependent claims

The subject-matter of the dependent claims is not inventive since it refers to well-known methods or a selection of parameters which appears to be an arbitrary choice since they are not linked to any unexpected effect.