

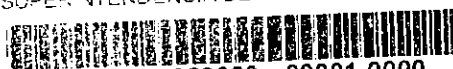
Señores

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

DIVISIÓN DE NUEVAS CREACIONES

E. _____ S. _____ D. _____

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 08-029832- -00001-0000

Fecha: 2008-04-18 16:26:17 Dep. 2020 NUECREACION
Tra. 11 PATENTEIYII Eve: 378 FASENACIONALI
Act. 329 CTOINFORMACION Folios: 10

Ref: Expediente N° 08-029.832

Solicitud de Patente de Invención titulada: "PROCESO DE FABRICACION PARA
COMBINAR UNA CAPA DE FIBRAS DE PULPA CON OTRO SUSTRATO".

Solicitante: KIMBERLY-CLARK WORLDWIDE, INC.

MEMORIAL DE ALCANCE

J. IAN RAISBECK, mayor de edad y vecino de Bogotá, identificado tal como aparece al pie de mi firma, en mi carácter de apoderado de la sociedad en referencia, me permito ratificar que la presente solicitud entra en Fase Nacional Capítulo I. Para tal efecto, adjunto copia del Reporte Preliminar Internacional de Patentabilidad, el cual, valga la pena aclarar, no contiene anexos.

Atentamente,

J. IAN RAISBECK

C.C. N°. 79.376.996 de Bogotá

T.P. 135.799

Anexos: Copia del Reporte de Examen Preliminar Internacional.

PATENT COOPERATION TREATY

PCT/US2006/021468

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)

(PCT Rule 44bis.1(c))

To:

BONDURA, Stephen, E.
DORITY & MANNING, P.A.
P.O. Box 1449
Greenville, South Carolina 29602-1449
ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)
03 April 2008 (03.04.2008)

Applicant's or agent's file reference
64048367PC01

KCX-1080-PCT

IMPORTANT NOTICE

International application No.
PCT/US2006/021468

International filing date (day/month/year)
02 June 2006 (02.06.2006)

Priority date (day/month/year)
26 September 2005 (26.09.2005)

Applicant

KIMBERLY-CLARK WORLDWIDE, INC. et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

RECEIVED
APR 11 2008

DORITY AND MANNING

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

Authorized officer

Simin Baharlou

Facsimile No. +41 22 338 82 70

e-mail: pt09.pct@wipo.int

not

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 64048367PC01	FOR FURTHER ACTION		See item 4 below
International application No. PCT/US2006/021468	International filing date (<i>day/month/year</i>) 02 June 2006 (02.06.2006)	Priority date (<i>day/month/year</i>) 26 September 2005 (26.09.2005)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant KIMBERLY-CLARK WORLDWIDE, INC.			

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 8 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).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Date of issuance of this report 26 March 2008 (26.03.2008)
	Authorized officer Simin Baharlou e-mail: pt09.pct@wipo.int

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

To:

see form PCT/ISA/220

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

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/US2006/021468

International filing date (day/month/year)
02.06.2006

Priority date (day/month/year)
26.09.2005

International Patent Classification (IPC) or both national classification and IPC
INV. D04H13/00

Applicant
KIMBERLY-CLARK WORLDWIDE, INC.

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 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

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/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

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 Tx: 31 651 epo nl
Fax: +31 70 340 - 3016

Date of completion of
this opinion

see form
PCT/ISA/210

Authorized Officer

Barathe, Rainier

Telephone No. +31 70 340-3519



WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2006/021468

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. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
 - ☐ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material:
 - ☐ on paper
 - ☐ in electronic form
 - c. time of filing/furnishing:
 - ☐ contained in the international application as filed.
 - ☐ filed together with the international application in electronic form.
 - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto 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.
4. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2006/021468

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

1. Statement

Novelty (N)	Yes: Claims	<u>1-19</u>
	No: Claims	
Inventive step (IS)	Yes: Claims	<u>1-19</u>
	No: Claims	
Industrial applicability (IA)	Yes: Claims	<u>1-19</u>
	No: Claims	

2. Citations and explanations

see separate sheet

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING
AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/US2006/021468

112

7

Point V

1) State of the Art

D1: US-A-5 389 202 (EVERHART CHERIE H [US] ET AL) 14 February 1995 (1995-02-14) cited in the application

2) Novelty and Inventive Step

2.1) Independent claim 1

Document D1 is considered as the closest prior art document.

It describes a process for hydro-entangling a layer of fibers into a web.

The process of claim 1 differs from the process of D1 in that the forming fabric and the hydro-entangling fabric converge and combine, while in D1 they remain separated. Thus, the layer of fibers in D1 travels unsupported between the first and the second belts before reaching the hydro-entangling station (D1: figure 1).

Therefore the subject-matter of claim 1 is novel (Article 33 (2) PCT).

The problem to be solved by the difference (supra) is to improve the transportation of a low strength fibre layer to be hydro-entangled into a web.

The solution consists in a process of:

- conveying the web to lie against a traveling hydro-entangling fabric;
- depositing a layer of fibers onto a traveling forming fabric, the forming fabric supporting the fiber layer from below;
- converging the forming fabric and the hydro-entangling fabric at a location where both fabrics orient and travel adjacent each other such that the fiber layer and the web are sandwiched between the forming fabric and the hydro-entangling fabric with the fiber layer supported below the hydro-entangling fabric and the web;

112

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING
AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/US2006/021468

- separating the forming fabric and the fiber layer after the web and the overlying fiber layer are supported by the hydro-entangling fabric; and
- conveying the hydro-entangling fabric through the hydro-entangling station to hydro-entangle the fibers into the web.

In this solution the layer of fibers remains supported all the time from its deposition until the hydro-entanglement into the web is completed.

This solution is not obvious to the skilled person and is not suggested in the prior art to solve the posed problem. Therefore claim 1 is inventive (Article 33(3) PCT).

2.2) Dependent claims 2-8

Dependent claims 2-8 are also novel and inventive (Articles 33(2) and (3) PCT).

2.3) Independent claim 9

Document D1 is considered as the closest prior art document.

It describes a process for hydro-entangling a layer of fibers into a web.

The process of claim 9 differs from the process of D1 in that:

- the web to be hydro-entangled to the fibrous layer lies against the hydro-entangling fabric (while in D1, it lies on top of the fiber web (D1 :figure 1);
- the fiber layer is fully supported from below by the first belt (while in D1 the two belts remain separated, the fiber layer is unsupported when leaving the first belt to reach the second one (D1: figure 1);

Therefore the subject-matter of claim 9 is novel (Article 33 (2) PCT).

The problem to be solved by the difference (supra) is to improve the transportation of a low strength fiber layer to be hydro-entangled into a web.

114
9

The solution consists in a process of:

- conveying the web to lie against a traveling hydro-entangling fabric;
- conveying a layer of fibers on the first traveling belt, the fiber layer fully supported from below by the first belt;
- orienting the first belt with respect to the hydro-entangling fabric so as to transfer the fiber layer from the first layer belt to overlie the web on the hydro-entangling fabric; and
- conveying the web and the fiber layer through a hydro-entangling station to hydro-entangle the fibers into the web.

This solution is not obvious to the skilled person and is not suggested in the prior art to solve the posed problem. Therefore claim 9 is inventive (Article 33(3) PCT).

2.4) Dependent claims 9-13

Dependent claims 9-13 are also novel and inventive (Articles 33(2) and (3) PCT).

2.5) Independent claim 14

Document D1 is considered as the closest prior art document.

It describes a process for conveying a fiber layer between processing stations (hydro-entangling and drying). The fiber layer is first conveyed by a traveling belt supporting it from below (D1: figure 1).

The process of claim 14 differs from the process of D1 in that the first and the second conveying belt converge and combine, while they remain separated in D1 (D1: figure 1).

Therefore, the subject-matter of claim 14 is novel (Article 33(2) PCT).

The problem to be solved by the difference (supra) is to improve the transportation of a low strength pulp layer to be hydro-entangled into a web.

The solution consists in a process of:

114

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING
AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/US2006/021468

- conveying a layer of fibers on a first traveling belt, the fiber layer supported from below by the first belt;
- converging the first traveling belt with a second traveling belt at a combining location where the first belt and the second belt merge such that the fiber layer is sandwiched between the first belt and the second belt;
- re-orienting the relative position of the merged first and second belts such that the second belt is disposed below the fiber layer; and
- separating the first from the fiber pulp layer after the fiber layer is fully supported from below by the second belt.

This solution is not obvious to the skilled person and is not suggested in the prior art to solve the posed problem. Therefore claim 14 is inventive (Article 33(3) PCT).

2.5) Dependent claims 10-19

Dependent claims 10-19 are also novel and inventive (Articles 33(2) and (3) PCT).