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Señora Jefe de la
DIVISION DE NUEVAS CREACIONES
Superintendencia de Industria y Comercio
E. S. D.

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 06-039638-00002-0000

Fecha: 2006-07-15 17:09:57 Dep. 2020 NUECREACIONE
Tra. 11 PATENTEIYII Eve: 379 FASENACIONALII
Act. 538 PETICION Folios: 2

Trámite : 011
Evento : 379
Actuación : 538

Referencia : Expediente No. 06.039.638
Asunto : Solicitud de Patente para **UN MATERIAL NO TEJIDO
HIDROCOHESIONADO**
Solicitante : **SCA HYGIENE PRODUCTS AB**
Clase : D04H 001/046, D04H 013/000
Publicada en : La Gaceta No. 587 del 18 de enero de 2008
Fecha de Solicitud : 26 de abril de 2006

1. Yo, Emilio FERRERO, identificado como aparece al pie de mi firma, actuando como apoderado en el asunto de la referencia, atentamente, solicito se efectúe el examen de patentabilidad de la solicitud en referencia presentada de acuerdo con el Capítulo II del PCT y según lo establecido en el artículo 44 de la Decisión 486 de la Comisión de la Comunidad Andina. Para tal efecto presento junto con este escrito el recibo por valor de \$ 210.000.00, que corresponde a la tasa fijada según lo dispuesto en la resolución No. 44372 de 26 de diciembre de 2007.

2. Ruego atentamente a la Señora Jefe se sirva ordenar que se anexe este recibo para que se efectúe dicho examen y se continúe con el trámite de la solicitud.

Señora Jefe,

EMILIO FERRERO
T.P.A. No. 31.929

COLO-11256-841-084-2
SDC\SCT\ID-130404\WPC11256
No. M-2008-130404\SDC

94

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 06-039638-00002-0000

Fecha: 2008-07-15 17:09:57 Dep. 2020 NUECREACIONE
Tra. 11 PATENTEI/II Eva: 379 FASENACIONALII
Act. 538 PETICION Folios: 2

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

NIT : 800176089-2

RECIBO OFICIAL DE CAJA : 00 - 45.967
FECHA : JUNIO 9 DE 2008

***** CONSIGNACION *****

DEPOSITANTE	TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PGO	Vr. PAGO
CAVELIER ABOGADOS	CONSIGNACION	BANCO DE BOGOTA	062754387	2678328	09/06/2008	89,445,000.00

***** CONCEPTO *****

CANT. RENTISTICO	CONCEPTO	TOTAL CONCEPTO
50005-01-01 SOLICITUDES	114 PTC CAP-II EXAMEN DE PATENTIBILID	210,000.00
	TOTAL :	\$ 210,000.00

SDN: DOSCIENTOS DIEZ MIL PESOS

RESPONSABLE :

RECIBO DE CAJA APLICADO AL EXPEDIENTE No.

060 11256-841-089-2

DIVISIÓN DE NUEVAS CREACIONES

RADICACIÓN EXPEDIENTE No. 06-39638

EL EXTRACTO DE LA PRESENTE SOLICITUD DE PATENTE DE INVENCION

FUE PUBLICADO EN LA GACETA DE PROPIEDAD INDUSTRIAL No 587 DE

FECHA 18 DE ENERO DE 2008 EL TÉRMINO HÁBIL SEÑALADO POR LA LEY

EXPIRA EL 16 DE ABRIL DE 2008

NOTA: Dentro del plazo de los seis (6) meses siguientes a partir de la fecha de publicación en la gaceta de Propiedad Industrial, deberá solicitar y cancelar el examen de patentabilidad so pena de que la solicitud caiga en abandono, de acuerdo con lo establecido en el Artículo 44 de la Decisión 486/2000.

SE PRESENTARON OPOSICIONES POR PARTE DE TERCEROS.

SI _____

NO X

97 96

**SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
DIVISIÓN DE NUEVAS CREACIONES**

2020

Bogotá, D. C., 25 de agosto de 2009

Doctor

Emilio Ferrero

Representante **SCA Hygiene Products AB**

ASUNTO

Radicación **06-39638**

Trámite 002

Evento 001

Actuación 430

Oficio 10177

Folios 011

Patente de Invención

☒

Patente de Modelo de Utilidad

☐

Vía Nacional

☐

Vía PCT (fase nacional)

☒

Cap. I

☐

Cap. II

☒

No. Sol. Internacional

PCT/SE2004/001519

Fecha de Presentación Internal.

21 de octubre de 2004

Como resultado del examen de fondo, realizado con fundamento en el artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se le comunica:

1. Documentos estudiados

1.1. Descripción: Folios: 44 a 70 tal como se radicó inicialmente

1.2. Reivindicaciones: Folios 71 a 73 tal como se radicó inicialmente

1.3. Dibujos: Folios 74 a 75 tal como se radicó inicialmente

1.4. Prioridad:

Fecha

31 de octubre de 2003

País

Suecia

Número

0302874-3

2. Objeto de la invención

- Título de la solicitud (folio 1) **Un Material No Tejido Hidrocohesionado**
- Las reivindicaciones 1 a 12 de la solicitud en estudio se refieren a:

- *Un material no tejido, compuesto, bien integrado, hidrocohesionado (8), que comprende una mezcla de filamentos continuos aleatorizados (3), fibras naturales (5), y fibras de hebra sintética (6), caracterizado por que las fibras de hebra sintética tienen una longitud de 3 a 7 mm, preferiblemente 4 a 6 mm.*
- *Un método para producir un material no tejido que comprende formar una red de filamentos continuos sobre una tela en formación y aplicar una dispersión de fibra formada en húmedo que contiene fibras de hebra sintéticas y fibras naturales en la parte superior de dichos filamentos continuos, formando así una red fibrosa que contiene dichos filamentos continuos, fibras de hebra sintética y fibras naturales, y subsecuentemente hidrocohesionando la red fibrosa para formar un material no tejido **CARACTERIZADO PORQUE** las fibras de hebra sintética tienen una longitud de 3 a 7 mm, preferiblemente 4 a 6 mm*
- El anterior producto y el procedimiento de fabricación buscan proporcionar
- La Clasificación Internacional de Patentes (IPC) para esta solicitud es D04H.

3. Determinación del Estado de la Técnica

- La fecha que se ha tenido en cuenta para determinar el estado de la técnica es 31 de octubre de 2003
- Teniendo en cuenta la fecha indicada se realizó la búsqueda en el estado de la técnica de documentos relacionados con la solicitud encontrándose los siguientes documentos más relevantes:

Nº	Documento	Título	Fecha de publicación*
D1	WO 02/38846	Hydroentangled nonwoven composite structures containing recycled synthetic fibrous material	16.05.2002
D2	EP 0 333 212	Nonwoven elastomeric web and method of forming the same	20.09.1989
D3	EP 0 333 211	Composite nonwoven non elastic web material and method of forming thereof	20.09.1989
D4	US 4775579	Hydroentangled elastic and nonelastic filaments	04.10.1988
D5	US 5952251	Coformed dispersible nonwoven fabric bonded with a hybrid system	14.09.1999
D6	US 6314627	Hydroentangled fabric having structured surfaces	13.11.2001

4. Análisis de patentabilidad (Artículo 14 D. 486)

El solicitante pretende que se le proteja un material no tejido hidrocohesionado y un procedimiento de fabricación de dicho material, caracterizado por que las fibras de hebra sintética que posee el material tienen una longitud de 3 a 7 mm.

Todas las anterioridades señaladas comprenden materiales no tejidos hidrocohesionados donde las fibras sintéticas tienen la longitud establecida por el solicitante. Dado que esa es la única característica que el solicitante plantea como novedosa, las anterioridades señaladas afectan de manera directa la patentabilidad de la solicitud.

5. Conclusión:

Los requisitos de patentabilidad de la presente solicitud se encuentran afectados así:

N°	Documento N°	Reivindicaciones afectadas	Requisito que afecta
D1	WO 02/38846	1 - 12	Novedad
			Nivel inventivo
D2	EP 0 333 212	1 - 12	Novedad
			Nivel inventivo
D3	EP 0 333 211	1 - 12	Novedad
			Nivel inventivo
D4	US 4775579	1 - 12	Novedad
			Nivel inventivo
D5	US 5952251	1 - 12	Novedad
			Nivel inventivo
D6	US 6314627	1 - 12	Novedad
			Nivel inventivo

En cumplimiento del artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se le indica que debe dar respuesta dentro del término de SESENTA días contados a partir de la fecha de notificación de la presente comunicación. En caso de no dar respuesta al presente requerimiento, o si a pesar de la respuesta subsistieran los impedimentos para la concesión, se denegará la patente.

Notifíquese el presente oficio conforme a lo dispuesto en el numeral 5.2, literal e), del capítulo quinto del título primero de la Circular Única N° 10 de 2001.


Alix Carmonza Céspedes De Vergel
 Jefe de División de Nuevas Creaciones

Concepto Técnico No. 2932
 Examinador Técnico 202003

El anterior requerimiento fue notificado por fijación en lista, de fecha 04 SET. 2009

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
16 May 2002 (16.05.2002)

PCT

(10) International Publication Number
WO 02/38846 A2

(51) International Patent Classification⁷: D04H 1/46,
3/10, 13/00, A47L 13/16, D04H 5/02

(21) International Application Number: PCT/US01/46781

(22) International Filing Date:
7 November 2001 (07.11.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/247,302 10 November 2000 (10.11.2000) US

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GAS, Bernardo; Calle 20 19A-27, Barbosa (CO).

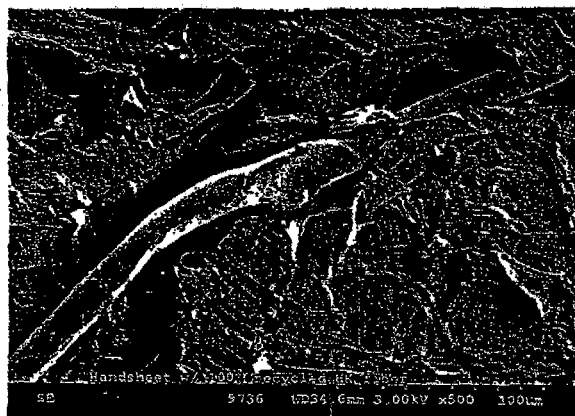
(74) Agents: TULLEY, Douglas, H., Jr. et al.; KIM-
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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,
SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,

[Continued on next page]

(54) Title: HYDROENTANGLED NONWOVEN COMPOSITE STRUCTURES CONTAINING RECYCLED SYNTHETIC FI-
BROUS MATERIALS



(57) Abstract: A hydraulically entangled nonwoven composite structure that includes a matrix of substantially continuous filaments; and recycled synthetic fibers and fiber-like materials having at least one thread element composed of synthetic material with at least one irregular distortion generated by hydraulic fracture of the thread element to separate it from a bonded fibrous material while the bonded fibrous material is suspended in a liquid. This nonwoven composite structure may be used as a wiper or an absorbent material. A method of forming the nonwoven composite structure includes the steps of: (a) providing a layer of recycled synthetic fibers and fiber-like materials having at least one thread element composed of synthetic material containing at least one irregular distortion generated by hydraulic fracture of the thread element to separate it from a bonded fibrous material while the bonded fibrous material is suspended in a liquid; (b) superposing the layer of recycled fibers and fiber-like materials over a layer of substantially continuous filaments; (c) hydraulically entangling the layers to form a nonwoven web; and (d) drying the web.

WO 02/38846 A2

Best Available Copy

100
99



Europäisches Patentamt
European Patent Office
Office européen des brevets



Publication number: **0 333 212 B1**

12

EUROPEAN PATENT SPECIFICATION

- (43) Date of publication of patent specification: 30.11.94 (51) Int. Cl.⁵ D04H 1/44, D04H 1/56
(27) Application number: 89104802.7
(23) Date of filing: 17.03.89

(54) Nonwoven elastomeric web and method of forming the same.

- (30) Priority: 18.03.88 US 170209
(42) Date of publication of application: 20.09.89 Bulletin 89/38
(46) Publication of the grant of the patent: 30.11.94 Bulletin 94/48
(56) Designated Contracting States:
AT BE CH DE ES FR GB GR IT LI LU NL SE
(56) References cited:
EP-A- 0 062 259
EP-A- 0 092 819
EP-A- 0 239 080

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Note: Within nine months from the publication of the mention of the grant of the European patent, any person may give notice to the European Patent Office of opposition to the European patent granted. Notice of opposition shall be filed in a written reasoned statement. It shall not be deemed to have been filed until the opposition fee has been paid (Art. 99(1) European patent convention).



Europäisches Patentamt
European Patent Office
Office européen des brevets



Publication number:

0 333 211 B1

(12)

EUROPEAN PATENT SPECIFICATION

(43) Date of publication of patent specification: 18.05.94 (51) Int. Cl.⁵: D04H 1/44, D04H 1/56

(21) Application number: 89104801.9

(22) Date of filing: 17.03.89

Divisional application 93114080.0 filed on
17/03/89.

(54) Composite nonwoven non-elastic web material and method of formation thereof.

(20) Priority: 18.03.88 US 170200

(43) Date of publication of application:
20.09.89 Bulletin 89/38

(45) Publication of the grant of the patent:
18.05.94 Bulletin 94/20

(54) Designated Contracting States:
AT BE CH DE ES FR GB GR IT LI LU NL SE

(56) References cited:
EP-A- 0 062 259
EP-A- 0 108 621
EP-A- 0 252 743
GB-A- 2 114 054

(73) Proprietor: **KIMBERLY-CLARK CORPORATION**
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D-80603 München (DE)

Note: Within nine months from the publication of the mention of the grant of the European patent, any person may give notice to the European Patent Office of opposition to the European patent granted. Notice of opposition shall be filed in a written reasoned statement. It shall not be deemed to have been filed until the opposition fee has been paid (Art. 99(1) European patent convention).

United States Patent [19]

Hagy et al.

[11] Patent Number: 4,775,579

[45] Date of Patent: Oct. 4, 1988

[54] HYDROENTANGLED ELASTIC AND NONELASTIC FILAMENTS

[75] Inventors: M. Dexter Hagy, Greenville; Jared A. Austin, Greer, both of S.C.

[73] Assignee: James River Corporation of Virginia, Richmond, Va.

[21] Appl. No.: 117,234

[22] Filed: Nov. 5, 1987

[51] Int. Cl.⁴ B32B 5/06

[52] U.S. Cl. 428/284; 28/104;
428/137; 428/219; 428/299; 428/903

[58] Field of Search 28/104; 428/903, 299,
428/284, 137, 219

[56]

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Primary Examiner—James J. Bell

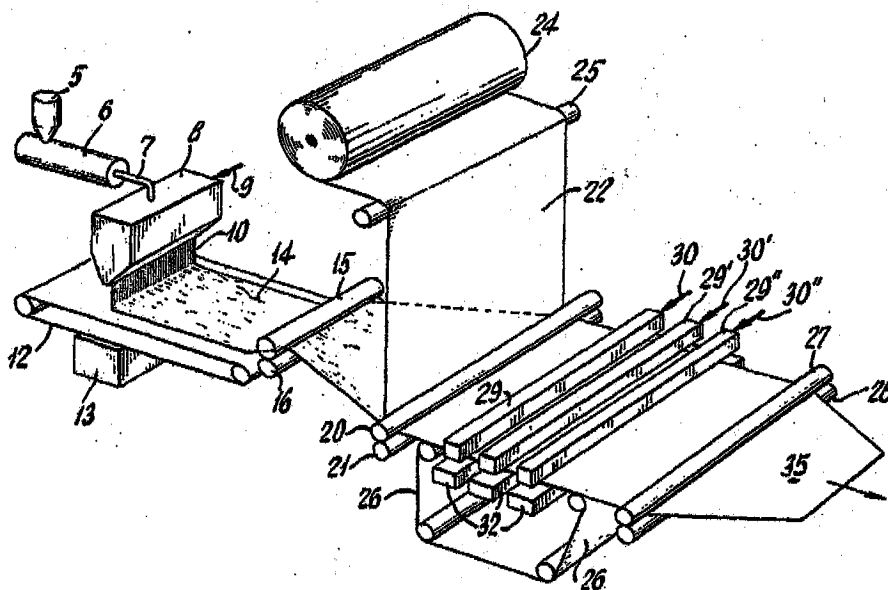
Attorney, Agent, or Firm—William A. Aguele; Richard J. Gallagher; Thomas H. Whaley

[57]

ABSTRACT

An elastic nonwoven fabric is made up of staple textile fibers or wood pulp, or both hydroentangled with an elastic web or net of a thermoplastic elastic polymer.

12 Claims, 1 Drawing Sheet





US005952251A

United States Patent [19]

Jackson et al.

[11] Patent Number: 5,952,251
[45] Date of Patent: *Sep. 14, 1999

[54] COFORMED DISPERSIBLE NONWOVEN FABRIC BONDED WITH A HYBRID SYSTEM

[75] Inventors: David Martin Jackson, Roswell, Ga.; Pavneet Singh Mumick, Appleton, Wis.; Audrie Tomoko Ono, Atlanta, Ga.; William Seal Pomplun, Neenah, Wis.; Kenneth Yin Wang, Alpharetta, Ga.

[73] Assignee: Kimberly-Clark Corporation, Neenah, Wis.

[*] Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

[21] Appl. No.: 08/774,417

[22] Filed: Dec. 31, 1996

Related U.S. Application Data

[63] Continuation-in-part of application No. 08/497,629, Jun. 30, 1995, abandoned.

[51] Int. Cl.⁶ D04H 1/42

[52] U.S. Cl. 442/340; 442/341; 442/342; 442/350

[58] Field of Search 442/340, 341, 442/342, 350

[56] References Cited

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(List continued on next page.)

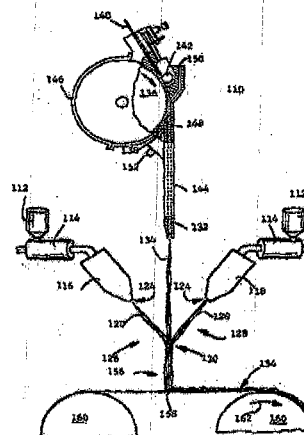
Primary Examiner—Richard Weisberger
Attorney, Agent, or Firm—Bernstein & Associates, P.C.

[57] ABSTRACT

A water-dispersible coformed fibrous nonwoven fabric structure comprising a primary reinforcing polymer material, preferably capable of being meltspun; a secondary reinforcing polymer material having an average fiber length less than or equal to about 15 mm and preferably having a softening point at least about 30° C. lower than the softening point of the primary reinforcing polymer; and, an absorbent material, such as pulp or a superabsorbent. The fabric structure maintains desired tensile strength and softness while being water-dispersible and flushable. The fabric produced can be incorporated into an article and can be flushed down a commode. The fabric is flushable when placed in water, with agitation, if necessary, and will disperse into unrecognizable pieces without clogging conventional plumbing or piping.

A method of producing the fabric structure comprises mixing the secondary reinforcing material and absorbent material and injecting this coform blend into a stream of meltspun primary reinforcing fibers. After a web structure has been established, the structure is exposed to thermal or ultrasonic energy sufficient to soften and bond the secondary reinforcing material fibers, but not to soften the primary reinforcing material fibers. An embossed pattern can be printed on the structure.

23 Claims, 2 Drawing Sheets



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 Polymer Blends and Composites by John A. Manson and Leslie H. Sperling, copyright 1976 by Plenum Press, a division of Plenum Publishing Corp. of New York, ISBN 0-306-30831-2, pp. 273-277.



US006314627B1

(12) **United States Patent**
Ngai

(10) **Patent No.:** **US 6,314,627 B1**
(45) **Date of Patent:** **Nov. 13, 2001**

(54) **HYDROENTANGLED FABRIC HAVING
STRUCTURED SURFACES**

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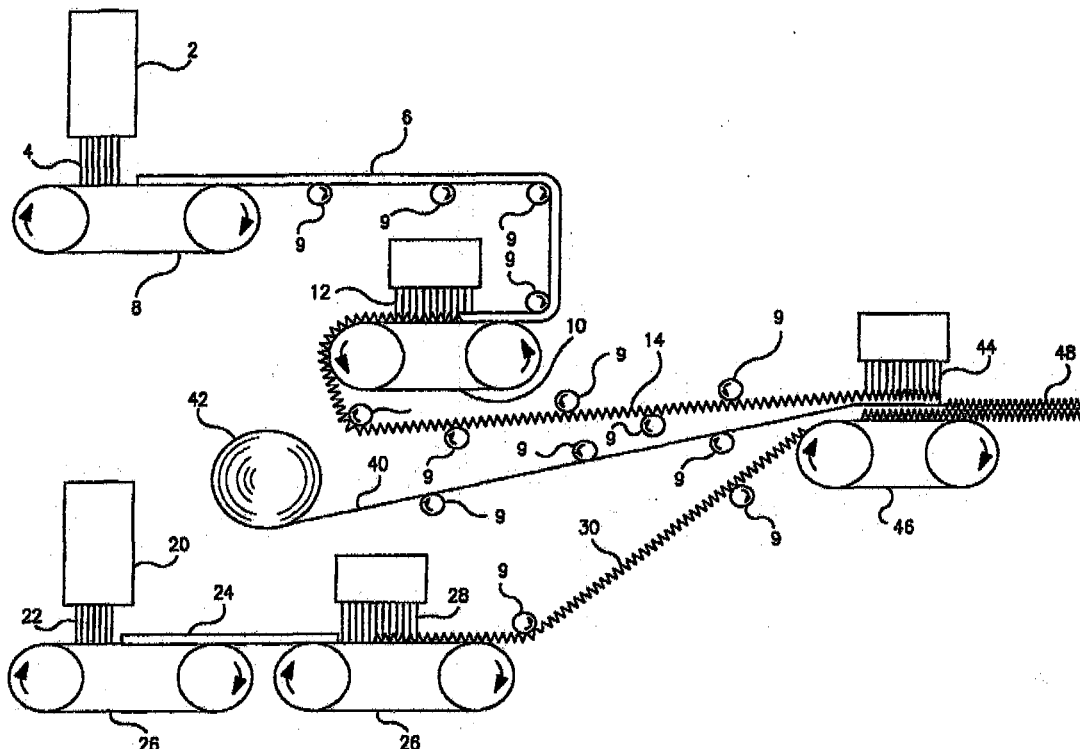
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(57) **ABSTRACT**

A composite non-woven fabric has two outer non-woven layers with structured surfaces that are efficient at wiping solid or semi-solid matter, with a center non-woven layer that is substantially impermeable to the passage of solid or semi-solid matter. The fabric of the invention thus provides efficient wiping ability for solid and semi-solid matter in combination with a sanitary quality that prevents passage of such matter through the fabric. The fabric of the invention may find particular utility as a wipe. A method of making a composite non-woven fabric includes the general steps of forming a first and second hydroentangled non-woven webs with structured surfaces, and laminating the first and second webs to a central non-woven web that is substantially impermeable to passage of solid and semi-solid matter.

10 Claims, 5 Drawing Sheets





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[54] **METHOD OF PRODUCING A NONWOVEN MATERIAL**

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[58] Field of Search 28/104, 105, 103, 28/106, 107, 167; 162/100, 101, 202, 115, 201, 91, 146, 289, 300, 315, 317, 212; 442/370, 400, 401, 408

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[57] **ABSTRACT**

Method of producing a nonwoven material by hydroentangling a fiber mixture containing continuous filaments, e.g. meltblown and/or spunbond fibers, and natural fibers and/or synthetic staple fibers. The method is characterized by foamforming a fibrous web (14) of natural fibers and/or synthetic staple fibers and hydroentangling together the foamed fiber dispersion with the continuous filaments (11) for forming a composite material where the continuous filaments are well integrated with the rest of the fibers.

9 Claims, 8 Drawing Sheets