

Search history

Search 1: SFT=((absorbent or absorptive) and (nonwoven or non-woven or non 1w woven)) (Results 24156)

Search 2: 1 and lubricant* (Results 2008)

Search 3: 2 and PD<20150114 (Results 1732)

Search 4: 3 and diaper (Results 407)

Search 5: 4 and (coarseness or fineness) (Results 42)

Title: COMPOSITE FIBRES, WATER-ABSORBING MATERIAL USING THE COMPOSITE FIBRES AS A BASE MATERIAL AND METHOD FOR PRODUCING THE SAME

Abstract: The present invention uses, as a base material, a multi-layer film comprising more than two layers and formed from thermoplastic resins different in melting point from one another. A sectional construction of the multi-layer film or a tape obtained from the multi-layer film is applied to a sectional construction of a fibre without modification, the multi-layer film or tape being formed into the fibre. The invention provides a composite fibre which is much more excellent as compared to a conventional heat adhesive composite fibre by melt spinning, a water-absorbing material using the composite fibre as a base material and a method for the production of the same by the stated simple means.

Classifications:

International (IPC 8-9): A61F13/49 A61F13/53 A61L15/42 D01D5/30 D01D5/42 D01F8/04 D01F8/06 D04H1/54 D04H13/02 (Advanced/Invention); A61L15/16 D01D5/00 D01D5/30 D01F8/04 D01F8/06 D04H1/54 D04H13/00 (Core/Invention)

International (IPC 1-7): A61F13/46 D01D5/42 D02G3/00 D04H1/58

CPC: Y10S57/907 D04H1/54 A61L15/42 D01D5/42 D01F8/04 Y10T428/29 Y10T428/2904 Y10T428/2909 Y10T428/2913 Y10T428/2922 Y10T428/2924 Y10T428/2929 Y10T428/2931 Y10T428/249921 Y10T442/637

European: A61L15/42 D01D5/42 D01F8/04 D04H1/54

US: 156/180 264/147 428/221 428/224 428/247 428/288 428/296 428/357 428/359 428/362 428/364 428/369 428/370 428/373 428/374 442/361 57/907

PatBase - US5071705_R

U.S. Patent Dec. 10, 1991 Sheet 1 of 2 5,071,705

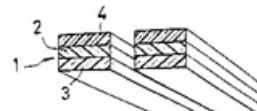


FIG. 1

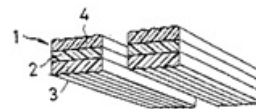


FIG. 2

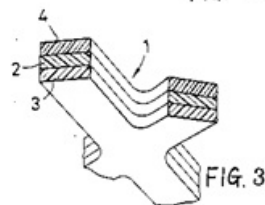


FIG. 3

Family:

Publication number	Publication date	Application number	Application date
DE3688791 D1	19930902	DE19863688791T	19860516
DE3688791 T2	19940224	DE19863688791T	19860516
EP0244486 A1	19871111	EP19860903556	19860516
EP0244486 A4	19881020	EP19860903556	19860516
EP0244486 B1	19930728	EP19860903556	19860516
JP2126689 C3	19970128	JP19850243863	19851101
JP6036808 B4	19940518	JP19850243863	19851101
JP62104903 A2	19870515	JP19850243863	19851101
JP62149905 A2	19870703	JP19850282986	19851218
US5071705 A	19911210	US19870068039	19870629
US5143786 A	19920901	US19910708692	19910531
WO8702719 A1	19870507	WO1986JP00253	19860516

Priority:

JP19850243863 19851101 JP19850282986 19851218

Probable Assignee: SHOWA DENKO KK

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Assignee(s): SHOWA DENKO K K ; SHOWA DENKO K K TOKIO TOKYO JP ; SHOWA DENKO KABUSHIKI KAISHA

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Inventor(s): TANAKA TOYOAKI KAWASAKI JUSHI KENKYUSHO OF SHOWA ; TANAKA TOYOAKI KAWASAKI JUSHI KENKYUSHO... ; TANAKA TOYOAKI KAWASAKI JUSHI KENKYUSHO OFSHOWA KAWASAKI SHI KANAGAWA KEN 210 JP ; NAKAMURA AKIRA KAWASAKI JUSHI KENKYUSHO OF SHOWA KAWASAKI SHI KANAGAWA KEN 210 JP ; KAMEI YOSHISUKE KAWASAKI JUSHI KENKYUSHO OF SHOWA KAWASAKI SHI KANAGAWA KEN 210 JP ; HASHIMOTO AKIHIRO KAWASAKI JUSHI KENKYUSHO KAWASAKI SHI KANAGAWA KEN 210 JP ; NAKAMURA AKIRA KAWASAKI JUSHI KENKYUSHO OF SHOWA ; NAKAMURA AKIRA KAWASAKI JUSHI KENKYUSHO OF... ; HASHIMOTO AKIHIRO KAWASAKI JUSHI KENKYUSHO ; KAMEI YOSHISUKE KAWASAKI JUSHI KENKYUSHO OF SHOWA ; KAMEI YOSHISUKE KAWASAKI JUSHI KENKYUSHO OF...

Designated states: DE FR GB US

Title: ELASTIC **ABSORBENT**

Abstract: Disclosed is an elastic **absorbent** which comprises a substantially homogeneous mixture of pulverized cellulose pulp and staple fibers of a split yarn obtained by splitting a tape-form oriented laminate comprising at least one layer of a synthetic resin having a high melting point and at least one layer of a synthetic resin having a low melting point, in which the layer of the synthetic resin having a low melting point is at least partially exposed to the surface. Another elastic **absorbent** comprises an intermediate layer of a powdery polymeric water-absorbing agent, which is interposed between upper and lower layers, each of the upper and lower layers comprising a substantially homogeneous mixture of pulverized cellulose pulp and staple fibers of the same split yarn as mentioned above. At the crossing points of the staple fibers, of the split yarn, the synthetic resin having a low melting point is at least partially fusion-bonded and the staple fibers of the split yarn are connected to one another in the state where the cellulose pulp is partially enclosed therein.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/472 A61F13/49
A61F13/53 A61F5/44 B32B27/12 B32B7/00 D01G13/00 D01G25/00
D04H1/02 D04H1/40 D04H1/407 D04H1/42 D04H1/4374 D04H1/54
D04H1/72 (Advanced/Invention);
A61F13/00 (Advanced/Non-invention);
A61F13/15 A61F5/44 D04H1/00 D04H1/40 D04H1/42
D04H1/70 (Core/Invention)

International (IPC 1-7): A41B13/02 A61F13/15 A61F13/18
A61F13/46 A61F5/44 B28B5/02 B32B3/04 B32B5/16 B65D81/16
D01G13/00 D01G25/00 D04H1/02 D04H1/40 D04H1/42 D04H1/72
D21H5/26

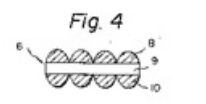
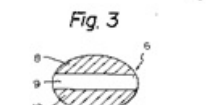
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A61F2013/15048 A61F2013/15821 A61F2013/530481
A61F2013/53445 D21H5/2628 D21H17/71 D21H23/10 Y10T428/25
Y10T428/253 Y10T428/2982 Y10T442/676 Y10T442/678

European: A61F13/15M3D D04H1/54 D21H17/71 D21H23/10
D21H5/26B6 K61F13/00J4 K61F13/15A11 K61F13/15M11
K61F13/534C K61F13/53Q

US: 156/296 19/145.5 19/296 264/115 264/119 264/122 425/83.1
428/283 428/284 428/288 428/296 428/323 428/326 428/402
428/913 442/396 442/398 604/370 604/374

PatBase - US4822668_A

U.S. Patent Apr. 18, 1989 Sheet 1 of 5 4,822,668

**Family:**

Publication number	Publication date	Application number	Application date
EP0254393 A1	19880127	EP19870303714	19870427
JP1944332 C3	19950623	JP19860303934	19861222
JP2515748 B2	19960710	JP19860178945	19860731
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Priority:

JP19860167884 19860718	JP19860178945 19860731	JP19860188698 19860813
JP19860293485 19861211	JP19860303934 19861222	JP19870000001 19870105
JP19870029525 19870213	US19870044373 19870430	

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Title: **Absorbent** article

Abstract: An **absorbent** article comprises a liquid-permeable surface sheet, a liquid-impermeable leakproof sheet, and an **absorbent** layer provided between the two sheets, characterized in that at least part of a material constituting said **absorbent** layer is made of a nodular fiber, and that said nodular fiber contains a fiber having a wet to dry tenacity ratio of 80 percent or more.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/511

A61F13/53 A61F5/44 B01J20/28 (Advanced/Invention);

A61F13/15 A61F5/44 B01J20/28 (Core/Invention)

International (IPC 1-7): A41B13/02 A61F13/15 A61F13/16

A61F13/18 A61F13/46 A61F13/54 A61F5/44 B01J20/26 B01J20/28

CPC: A61F13/15203 A61F2013/51042 A61F2013/51409

A61F2013/530131 A61F2013/53016 A61F2013/530481

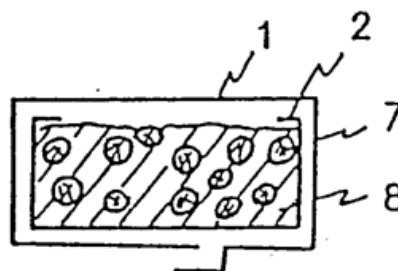
A61F2013/53445 A61F2013/8488

European: A61F13/15J K61F13/514A4 K61F13/51M7B K61F13/534C

K61F13/53M K61F13/53M2 K61F13/53Q K61F13/84E

US: 604/372

PatBase - US4842595_A



Family:

Publication number	Publication date	Application number	Application date
DE3737400 A1	19880511	DE19873737400	19871104
DE3737400 C2	19960509	DE19873737400	19871104
FR2605880 A1	19880506	FR19870015297	19871104
FR2605880 B1	19900824	FR19870015297	19871104
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GB2197206 B2	19910320	GB19870024987	19871026
GB8724987 A0	19871202	GB19870024987	19871026
JP1658794 C3	19920421	JP19860263542	19861105
JP3017498 B4	19910308	JP19860263542	19861105
JP63117753 A2	19880521	JP19860263542	19861105
US4842595 A	19890627	US19870114018	19871029

Priority:

JP19860263542 19861105

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Inventor(s): (std): AKIRA SAKURAI ; MINORU NAKANISHI ; SAKURAI AKIRA ; NAKANISHI MINORU

Inventor(s): NAKANISHI MINORU UTSUNOMIYA TOCHIGI JP ; SAKURAI AKIRA UTSUNOMIYA TOCHIGI JP

Title: HYDRAULICALLY NEEDEDLED NONWOVEN PULP FIBER WEB

Abstract: A hydraulically neededled nonwoven pulp fiber web is disclosed. This nonwoven pulp fiber web has a mean flow pore size ranging from about 18 to about 100 microns, and a Frazier porosity of at least about 100 cfm/ft². The web may also be characterized by a specific volume ranging from about 8 to about 15 cm³/g. The nonwoven pulp fiber web may contain a significant proportion of low-average fiber length pulp and still have a total **absorptive** capacity greater than about 500 percent and a wicking rate greater than about 2 centimeters per 15 seconds. The hydraulically neededled nonwoven pulp fiber web may be used as a hand towel, wipe, or as a fluid distribution material in an **absorbent** personal care product. Also disclosed is a method of making the hydraulically neededled nonwoven pulp fiber web.

Classifications:

International (IPC 8-9): A47L13/16 D04H1/45 D04H1/46 D21F11/00 D21F9/00 D21H15/00 D21H25/00 D21H25/04 (Advanced/Invention); A47L13/16 (Advanced/Non-invention); A47L13/16 D04H1/46 D21H25/00 (Core/Invention)

International (IPC 1-7): A47K A47L13/16 A61L B31F D04H1/04 D04H1/44 D04H1/45 D04H1/46 D04H1/70 D04H3/08 D04H5/02 D21F11/00 D21F9/00 D21H15/00 D21H25/04 D21H27/00

CPC: Y10T428/24182 Y10T428/249962 Y10T428/249964

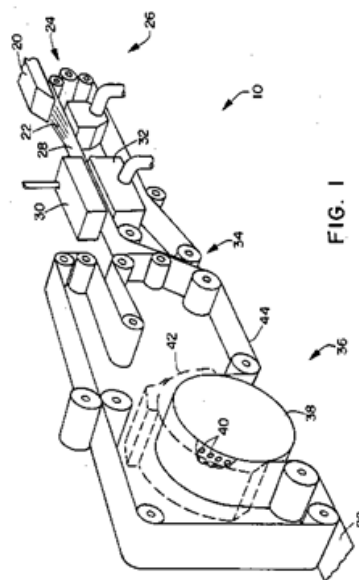
Y10T428/249965 D04H1/492 D21H25/005

European: D04H1/46B D21H25/00B

US: 162/115 28/105 428/120 428/311.1 428/311.11 428/311.5 428/311.51 428/311.7 428/311.71

PatBase - US5137600_A

U.S. Patent Aug. 11, 1992 Sheet 1 of 11 5,137,600



Family:

Publication number	Publication date	Application number	Application date
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AU646100 B2	19940210	AU19910086930	19911031
BRPI9104746 A	19920623	BR1991PI04746	19911031
CA2048333 AA	19920502	CA19912048333	19910801
CA2048333 C	20010123	CA19912048333	19910801
DE69124064 D1	19970220	DE19916024064	19911030
DE69124064 T2	19970814	DE19916024064T	19911030
EP0483816 A1	19920506	EP19910118547	19911030
EP0483816 B1	19970108	EP19910118547	19911030
ES2095897 T3	19970301	ES19910118547T	19911030
JP3083602 B2	20000904	JP19910285831	19911031
JP4281056 A2	19921006	JP19910285831	19911031
KR100188053 B1	19990601	KR19910019248	19911031
KR19920010062 A	19920626	KR19910019248	19911031
MX9101883 A1	19920708	MX19910001883	19911031
TW215465 B	19931101	TW19910108470	19911029
US5137600 A	19920811	US19900608095	19901101
ZA9108180 A	19920729	ZA19910008180	19911014

Priority:

US19900608095 19901101 CA19912048333 19910801

Probable Assignee: KIMBERLY CLARK CORP

Assignee(s): (std): KIMBERLY CLARK CO

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Inventor(s): (std): ADRIAN JOHN TREVISAN ; AN RUISU MATSUKOOMATSUKU ; ANN LOUISE MCCORMACK ; BARNES HAROLD K ; BARNES HAROLD KEITH ; CHERIE HARTMAN EVERHART ; CHIERII HAATOMAN EBUAHAATO ; COOK RONALD F ; COOK RONALD FRANCIS ; FRED ROBERT RADWANSKI ; FURETSUDO ROBAATO RADOWANSUKII ; HAROLD KEITH BARNES ; HARORUDO KIISU BAANESU ; MCCORMACK ANN L ; MCCORMACK ANN LOUISE ; EIDORIAN JIYON TOREBUISAN ; EVERHART CHERIE H ; EVERHART CHERIE HARTMAN ; PAULETTE MARY ROSCH ; POORETSUTO MEARI ROTSUSHIYU ; RADWANSKI FRED R ; RADWANSKI FRED ROBERT ; RONALD FRANCIS COOK ; RONARUDO FURANSHISU KUTSUKU ; ROSCH PAULETTE M ; ROSCH PAULETTE MARY ; ROSCH PAULETTEMARY ; TREVISAN ADRIAN J ; TREVISAN ADRIAN JOHN

Inventor(s): TREVISAN ADRIAN JOHN MARIETTA GEORGIA 30062 US ; EVERHART CHERIE HARTMAN ALPHARETTA GEORGIA... ; ROSCH PAULETTE MARY APPLETON WI 54915 US ; RADWANSKI FRED ROBERT ROSWELL

GEORGIA 39976 US ; EVERHART CHERIE HARTMAN ALPHARETTA GEORGIA 30201 U ; EVERHART CHERIE HARTMAN ALPHARETTA GEORGIA 30201 US ; MCCORMACK ANN LOUISE CUMMING GEORGIA 30130 US ; COOK RONALD FRANCIS MARIETTA GEORGIA 30068 US ; BARNES HAROLD KEITH AUGUSTA GEORGIA 30909 US

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; BORDEN LADNER GERVAIS LLP

Designated states: BE DE ES FR GB IT NL SE

Title: COMPOSITE NONWOVEN MATERIAL PROCESS OF MANUFACTURE AND ITS APPLICATION TO ANY **ABSORBENT** ARTICLE OF HYGIENE

Abstract: PCT No. PCT/FR94/00710 Sec. 371 Date Jan. 18, 1996 Sec. 102(e) Date Jan. 18, 1996 PCT Filed Jun. 14, 1995 PCT Pub. No. WO94/29506 PCT Pub. Date Dec. 22, 1994A composite nonwoven material comprises at least one layer (2) of a carded voile of hydrophobic thermoplastic fibers, the said fibers being partially disoriented in at least a proportion of the thickness of the voile so that a proportion of the said fibers has an angular orientation in relation to the main plane of the fibers of the said voile, and a layer (3) made of voile of nonwoven of noncarded type of hydrophobic thermo-plastic fibers, the fibers of at least one of the layers being chosen from fibers with a low melting point, two-component fibers, mixtures of such fibers with fibers of high melting point and fibers mixed with a binder or one face of the voile of one of the layers is coated with a binder, the layers being joined together by heat-melting.

Classifications:

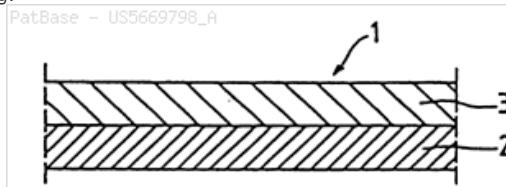
International (IPC 8-9): A61F13/15 A61F13/49 A61F13/511 A61F13/53 B32B5/08 D04H1/42 D04H1/4291 D04H1/435 D04H1/48 D04H1/541 D04H1/544 D04H1/55 D04H1/559 D04H1/58 D04H13/00 (Advanced/Invention); D04H1/48 (Advanced/Non-invention); A61F13/15 D04H1/42 D04H1/48 D04H13/00 (Core/Invention)

International (IPC 1-7): A61F13/15 A61F13/46 A61F13/54 B32B31/20 B32B5/08 B32B5/26 B32B7/10 B32B7/12 D04H1/42 D04H1/48 D04H1/54 D04H1/58 D04H1/70 D04H1/72 D04H13/00

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US: 156/291 156/308.2 428/340 442/362 442/364 442/389 442/393 442/411 604/366 604/384 604/385.1



Family:

Publication number	Publication date	Application number	Application date
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CZ9503314 A3	19961016	CZ19950003314	19940614
DE69401819 D1	19970403	DE19946001819	19940614
DE69401819 T2	19970605	DE19946001819T	19940614
DK0704001 T3	19970414	DK19940919707T	19940614
EP0704001 A1	19960403	EP19940919707	19940614
EP0704001 B1	19970226	EP19940919707	19940614
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GB2279673 B2	19970122	GB19940011545	19940608
GB9411545 A0	19940803	GB19940011545	19940608
GR3022684 T3	19970531	GR19970400148T	19970227
HU216416 B	19990628	HU19950003601	19940614
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PL174705 B1	19980930	PL19940312211	19940614
PL175362 B1	19981231	PL19940323241	19940614
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SK157295 A3	19961001	SK19950001572	19940614
SK280462 B6	20000214	SK19950001572	19940614
TNSN94066 A1	19950425	TN1994SN00066	19940614
US5669798 A	19970923	US19960564177	19960118
WO9429506 A1	19941222	WO1994FR00710	19940614
ZA9404031 A	19951208	ZA19940004031	19940608

Priority:

FR19930007239 19930616 WO1994FR00710 19940614

Probable Assignee: PEAUDOUCÉ

Assignee(s): (std): KOCZAB JEAN PIERRE ; PEAUDOUCÉ

Assignee(s): PEAUDOUCÉ LINSELLES FR

Inventor(s): (std): JEAN PIERRE KOCZAB ; KOCZAB JEAN PIERRE

Inventor(s): KOCZAB JEAN PIERRE F 59910 BONDUES FR

Agent(s): GRIFFITH HACK; FETHERSTONHAUGH AND CO; BUREAU DA CASALONGA AND JOSSE

Designated states: AT AU BE CA CH CZ DE DK ES FI FR GB GR HU IE IT JP LI LU MC NL NO NZ PL PT SE SK US

Title: NONWOVEN FABRICS AND FABRIC LAMINATES FROM MULTICONSTITUENT POLYOLEFIN FIBERS

Abstract: Nonwoven fabrics and fabric laminates are formed from continuous filaments or staple fibers of a select blend of specific grades of polyethylene and polypropylene which give improved fabric performance not heretofore recognized or described, such as high abrasion resistance, good tensile properties, excellent softness and the like. Furthermore, these blends have excellent melt spinning and processing properties which permit efficiently producing nonwoven fabrics at high productivity levels. The polymers are present as a lower-melting dominant continuous phase and at least one higher-melting noncontinuous phase dispersed therein. The lower-melting continuous phase forms at least 70 percent by weight of the fiber and comprises a linear low density polyethylene polymer of a melt index of greater than 10 and a density of less than 0.945 g/cc. At least one higher-melting noncontinuous phase comprises a polypropylene polymer with melt flow rate of greater than 20 g/10 min.

Classifications:

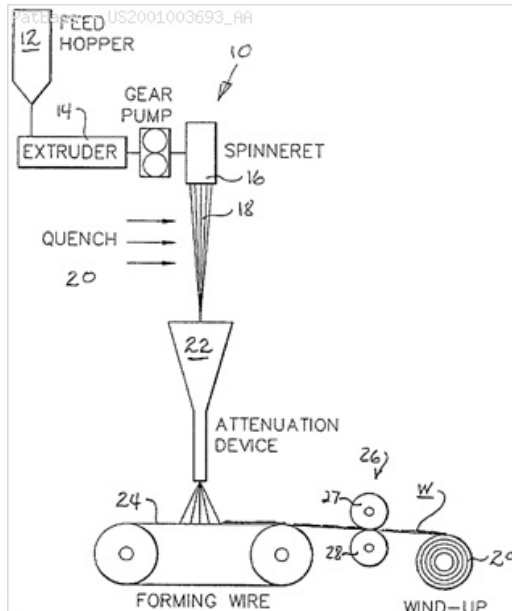
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International (IPC 1-7): A61F13/15 A61F13/47 A61F13/49 A61F13/494 A61F13/511 A61F13/514 A61F13/53 A61F13/54 A61F13/64 A61F5/44 A61L15/22 B32B27/00 B32B27/02 B32B27/12 B32B27/32 B32B3/10 B32B33/00 B32B5/04 B32B5/06 B32B5/06 B32B5/26 B32B7/10 B32B7/14 C08L23/04 C08L23/10 D01F1/00 D01F6/46 D01F8/00 D01F8/06 D02G3/02 D03D15/00 D04H1/04 D04H1/42 D04H1/54 D04H13/00 D04H3/00 D04H3/14 D04H3/16

CPC: Y10T428/2913 Y10T428/2915 Y10T428/2929 Y10T428/24826 Y10T428/24843 A61F13/51401 A61F13/51478 A61F2013/51429 D01F8/06 D04H5/06 Y10T442/601 Y10T442/637 Y10T442/641 Y10T442/659 Y10T442/66 Y10T442/671 Y10T442/674 Y10T442/68 Y10T442/681 Y10T442/602 Y10T442/679 Y10T442/16 Y10T442/621 Y10T442/622 Y10T442/625 Y10T442/642 Y10T442/668 Y10T442/678 Y10T442/348 Y10T442/3886 Y10T442/3976 Y10T442/62 Y10T442/64 Y10T442/663 Y10T442/697 D04H1/56 D04H1/54 D04H3/14 D04H1/4291 D04H1/4382 D04H1/4374 D04H1/559 D04H1/541 D04H1/544 D04H1/593 D04H1/498 D04H3/007 D04H3/16 B32B27/00 B32B5/022 B32B5/08 B32B7/12 B32B7/14 B32B27/12 B32B27/32 B32B2255/02 B32B2255/26 B32B2262/0253 B32B2262/14 B32B2307/54 B32B2307/554 B32B2307/726 B32B2555/02 B32B2250/20 B32B2305/20 B32B2535/00 B32B5/04 B32B2555/00 A61F13/51464 A61F13/5148 A61F13/51 A61F13/51464 A61F13/5148 A61F13/51 B32B5/26

European: A61F13/15C3 A61F13/51 A61F13/514A A61F13/514B2 A61F13/514C2A B32B5/04 B32B5/26 D01F8/06 D04H1/42 D04H1/54 D04H1/54B D04H1/56B D04H13/00B2 D04H13/00B4 D04H13/00B5 D04H3/14 D04H3/16 D04H5/06 K61F13/514A4C K61F13/514C2

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**Family:**

Publication number	Publication date	Application number	Application date
AT242349 E	20030615	AT19950940815T	19951122
AT251682 E	20031015	AT20000989490T	20001227
AT455882 E	20100215	AT20000988354T	20001227
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AU200125988 A1	20010716	AU20010025988	20001227
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Priority:

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WO2000US35282	20001227	WO2000US35281	20001227	US20010773880	20010131
US20010773901	20010131	US20010773845	20010131		

Probable Assignee: FIBERWEB HOLDINGS LTD

Assignee(s): (std):	AUSTIN JARED ASHER ; BBA NONWOVENS SIMPSONVILLE INC ; CHRISTOPHER DAVID BRUCE ; FIBERWEB NORTH AMERICA INC ; FIBERWEB SIMPSONVILLE INC ; GILLESPIE J DARRELL ; NEWKIRK DAVID D ; FOWELLS WILLIAM ; THOMAS HAROLD EDWARD ; MEECE BARRY DEWAYNE ; QUANTRILLE THOMAS E ; THOMAS HAROLD E ; GESSNER SCOTT LOUIS
Assignee(s):	GILLESPIE J ; GESSNER SCOTT L ; FITESA NONWOVEN INC ; FIBERWEB HOLDINGS LTD ; BBA NONWOVEN SIMPSONVILLE INC ; AUSTIN JARED A
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Inventor(s):	THOMAS E QUANTRILLE ; SCOTT LOUIS GESSNER ; WILLIAM FOWELLS ; BARRY DEWAYNE MEECE ; QUANTRILLE E ; THOMAS E ; HAROLD E THOMAS ; J DARRELL GILLESPIE ; JARED ASHER AUSTIN ; GILLESPIE J ; DAVOD D NEWKIRK HAROLD EDWARD THOMAS DAVID ; DAVOD D NEWKIRK HAROLD EDWARD THOMAS DAVID BRUCECHRISTOPHER
Agent(s):	BOLINCHES MICHEL JEAN MARIE
Designated states:	AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: LAMINATED **NON-WOVEN** FABRIC AND PROCESS FOR PRODUCING THE SAME

Abstract: Disclosed is a laminated **non-woven** fabric of a multi-layer structure comprising a layer of a composite, spun bond **non-woven** fabric composed of long fibers containing a low melting point resin component and a high melting point resin component, and a layer of a **non-woven** fabric of melt-blow ultrafine mixed fibers comprising low melting point ultrafine fibers and high melting point ultrafine fibers both of the fibers have an average fiber diameter of 10 μ m or less, both of the layers are laminated, and fibers in each of the **non-woven** fabrics and both of the layers are heat-melt adhered with each other. The laminated **non-woven** fabric has a good hand feeling and a high peeling strength of adjacent layers, but has no rough feeling.

Classifications:

International (IPC 8-9): B32B5/26 D01F8/06 D04H1/54 D04H1/541 D04H1/56 D04H13/00 D04H5/00 (Advanced/Invention); B32B5/22 D01F8/06 D04H1/54 D04H1/56 D04H13/00 D04H5/00 (Core/Invention)

International (IPC 1-7): B32B5/06 B32B5/08 B32B5/26 B32B7/20 D01F8/06 D04H1/54 D04H1/56 D04H13/00 D04H5/00

CPC: Y10T428/24826 Y10T442/618 Y10T442/621 Y10T442/638 Y10T442/641 Y10T442/66 Y10T442/662 Y10T442/663 D04H1/4382 D04H1/559 D04H1/56 D04H3/14 B32B5/022 B32B2307/718 B32B5/26

European: B32B5/26 D04H13/00B5

US: 156/308.4 156/62.4 156/62.6 156/624 156/626 28/362 28/364 428/198 442/343 442/346 442/362 442/364 442/382 442/383 442/384

Family:

Publication number	Publication date	Application number	Application date
DE69626257 D1	20030327	DE19966026257	19961119
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EP0775572 B1	20030219	EP19960308346	19961119
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Priority:

JP19950303062 19951121

Probable Assignee: JNC CORP

Assignee(s): (std): CHISSO CORP

Assignee(s): CHISSO CORP OSAKA ; JNC CORP

Inventor(s): (std): TERAKAWA YASUKI ; TERAKAWA TAIJU ; OGATA SATOSHI ; HORIUCHI SHINGO

Designated states: DE GB IT

Title: LAMINATED NONWOVEN FABRIC AND METHOD OF MANUFACTURING SAME

Abstract: A laminated nonwoven fabric having a good texture, providing no rough touch, and having a high strength and a large delamination strength are provided. A nonwoven fabric of a multi-layer structure comprises (a) a composite spun bonded nonwoven fabric composed of a low melting point resin component and a high melting point resin component and (b) a composite melt blown extra-fine fiber nonwoven fabric having a fiber diameter of 10 μm or less and being composed of a low melting point resin and a high melting point resin; both of the nonwoven fabrics are laminated, and the fibers in each of the nonwoven fabrics and both of the nonwoven fabrics are thermally fused. A method of manufacturing a nonwoven fabric having a multi-layer structure comprises laminating each of the nonwoven fabrics in a multi-layer structure and heating the laminate at a temperature higher than the thermal fusion temperature to cause thermal fusion of the both layers.

Classifications:

International (IPC 8-9): A61F13/15 B32B5/26 D01F8/06 D04H1/54 D04H1/541 D04H1/56 D04H13/00 D04H3/00 D04H3/007 D04H3/16 D04H5/00 D06M17/00 (Advanced/Invention); A61F13/15 B32B5/22 D01F8/06 D04H1/54 D04H1/56 D04H13/00 D04H3/00 D04H5/00 D06M17/00 (Core/Invention); D04H3/16 (Core/Non-invention)

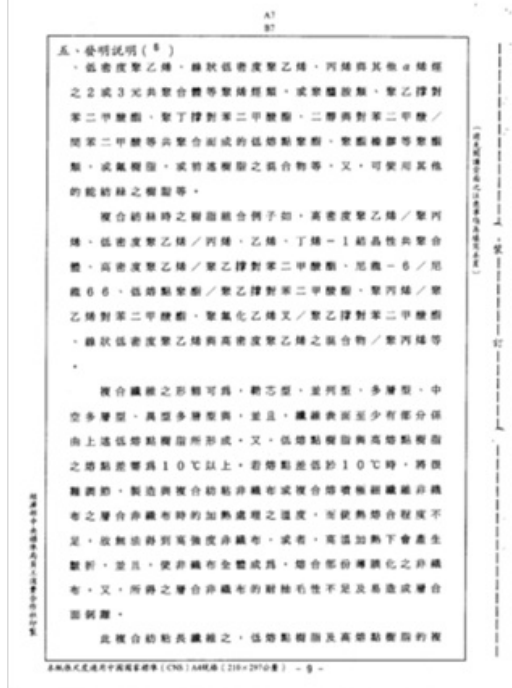
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CPC: Y10T442/637 Y10T442/641 Y10T442/66 A61F13/51401 D04H1/541 D04H1/559 D04H1/56 D04H3/147 B32B5/022 B32B5/08 B32B2555/02 B32B5/26

European: A61F13/15C3 A61F13/514A B32B5/26 D04H13/00B5

US: 442/361 442/364 442/382

PatBase - TW352396_B



Family:

Publication number	Publication date	Application number	Application date
■ CN1092731 C	20021016	CN19971098687	19970605
■ CN1233298 A	19991027	CN19971098687	19970605
■ DE69738870 D1	20080911	DE19976038870	19970605
■ EP0924328 A1	19990623	EP19970925286	19970605
■ EP0924328 A4	20000927	EP19970925286	19970605
■ EP0924328 B1	20080730	EP19970925286	19970605
■ EP0924328 B2	20110413	EP19970925286	19970605
■ JP3955650 B2	20070808	JP19960236723	19960906
■ JP9209254 A2	19970812	JP19960236723	19960906
■ TW352396 B	19990211	TW19970108455	19970617
■ US6187699 BA	20010213	US19990254366	19990304
■ WO9810130 A1	19980312	WO1997JP01913	19970605

Priority:

JP19950301547 19951120 JP19960236723 19960906 WO1997JP01913 19970605

Probable Assignee: JNC CORP

Assignee(s): (std): CHISSO CORP ; HORIUCHI SHINGO ; OGATA SATOSHI ; SHICHUSO KK ; TERAOKAWA TAIJU

Assignee(s): SHICHUSO KKJP ; JNC CORP

Inventor(s): (std): HORIUCHI SHINGO ; OGATA SATOSHI ; SATOSHI OGATA ; SHINGO HORIUCHI ; TAIJU TERAOKAWA ; TERAOKAWA TAIJU ; TERAOKAWA YASUKI

Agent(s): RUFFLES GRAHAM KEITH; LAMB MARTIN JOHN CARSTAIRS

Designated states: AT BE CH CN DE DK ES FI FR GB GR IE IT LU MC NL PT SE US

Title: **NON-WOVEN** FABRIC COMPRISING STAPLE FIBERS AND AN **ABSORBENT** ARTICLE USING THE SAME

Abstract: A **non-woven** fabric comprising staple fibers, having a fiber length of 3 to 25 mm and a single fiber **fineness** of 1 to 100 denier, and is produced by the fibers being dropped while being dispersed to be accumulated and adhered at the intersection point of the staple fibers. The **non-woven** fabric has a specific volume of 40 to 200 cm³/g, and the number of fiber lumps having a volume of not less than 1 mm³ is not more than 5 lumps per 20 g of the **non-woven** fabric. The bulky **non-woven** fabric of the present invention in which the sufficient contribution to bulkiness by fibers is exhibited is suitable for sanitary materials, such as disposable **diapers**, sanitary napkins, incontinence pads, nursing pads or the like, or wipes etc.

Classifications:

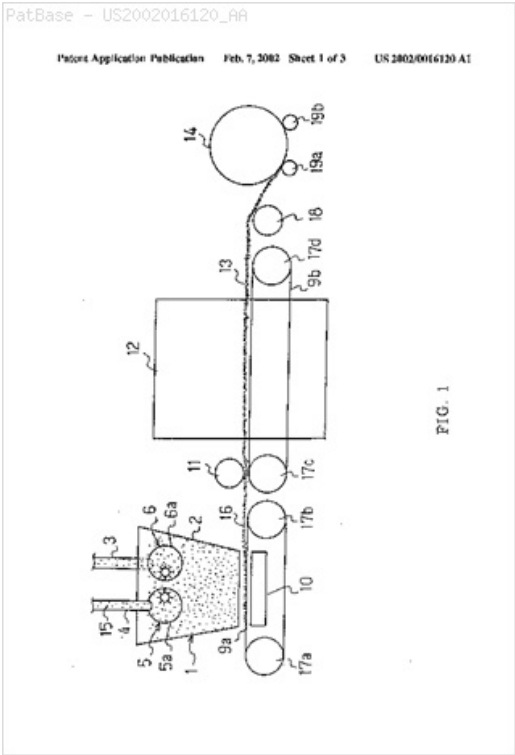
International (IPC 8-9): D04H1/54 D04H1/542 D04H1/62 (Advanced/Invention)

International (IPC 1-7): D04H1/00 D04H1/54

CPC: Y10T442/627 Y10T442/629 Y10T442/632 Y10T442/633 Y10T442/641 Y10T442/69 D04H1/62 D04H1/54 D04H1/541

European: D04H1/54 D04H1/54B D04H1/62

US: 19/296 442/352 442/353 442/356 442/357 442/364 442/409



Family:

Publication number	Publication date	Application number	Application date
AU199731077 A1	19980107	AU19970031077	19970616
CA2256550 AA	19981130	CA19972256550	19970616
EP0906981 A1	19990407	EP19970926261	19970616
EP0906981 A4	20041117	EP19970926261	19970616
JP3219250 B1	20011015	JP19980502667T	19970616
JP3219250 B2	20011015	JP19980502667T	19970616
US2002016120 AA	20020207	US19970973533	19971210
WO9748846 A1	19971224	WO1997JP02073	19970616

Priority:

JP19960179964 19960619 JP19960351863 19961211 WO1997JP02073 19970616

Probable Assignee: CHISSO CORP

Assignee(s): (std): CHISSO CORP ; HIRABAYASHI SHIGERU ; NAGANO KOKI

Inventor(s): (std): HIRABAYASHI SHIGERU ; NAGANO KOKI

Inventor(s): SHIGERU HIRABAYASHI ; KOKI NAGANO

Agent(s): SMART AND BIGGAR

Designated states: AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU IE IL IS IT JP KE KG KR KZ LC LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN YU ZW

Title: FIBERS AND FIBROUS MOLDINGS MADE BY USING THE SAME

Abstract: The present invention provides a fiber containing remarkably high heat resistance and softness and fiber-processed products using the same. A fiber formed from a polypropylene serving as at least one raw material, wherein the polypropylene is confirmed with NMR spectrometry that an isotactic pentad fraction (mmmm) of 0.950-0.995, a syndiotactic pentad fraction (rrrr) of 0-0.004, different bonds due to 2,1-insertion reaction and 1,3-insertion reaction in an amount of 0-0.3 mol percent, and absence of terminal double bonds, and has a weight average molecular weight (Mw) of 50,000-1,000,000, and has a ratio (Mw/Mn) of weight average molecular weight (Mw) to number average molecular weight (Mn) of 1.5-3.8; and fiber-processed products using the fiber.

Classifications:

International (IPC 8-9): A61F13/15 C08F10/06 C08F4/642 D01F6/06 D01F8/06 D01F8/08 D04H1/56 D04H3/00 D04H3/007 D04H3/16 (Advanced/Invention);

C08F10/06 C08F110/06 C08F4/642 D01F6/06 D01F8/08 (Advanced/Non-invention)

International (IPC 1-7): A61F13/15 C08F10/06 C08F4/642 D01F6/06 D01F8/08 D04B1/14 D04B21/14 D04H1/56 D04H3/00 D04H3/16

CPC: Y10T428/2929 D04H3/16 C08F110/06 D01F6/06 D04H3/007 D04H3/016 D04H3/073 Y10T442/3146 Y10T442/444 Y10T442/637 Y10T442/68 Y10T442/681

European: D01F6/06 D04H3/007 D04H3/016 D04H3/073 D04H3/16 M08F110/06

US: 428/373 442/199 442/311 442/361 442/400 442/401 526/89 526/90

Family:

Publication number	Publication date	Application number	Application date
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KR19990082096 A	19991115	KR19980705818	19971128
TW396215 B	20000701	TW19970117938	19971128
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WO9823799 A1	19980604	WO1997JP04366	19971128

Priority:

JP19960334829 19961129 JP19960337557 19961203 WO1997JP04366 19971128

Probable Assignee: JNC CORP

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Assignee(s): JNC CORP ; CHISSO CORP OSAKA

Inventor(s): (std): ABE MORIO ; NAKAJIMA YUJI ; YUJI NAKAJIMA ; MORIO ABE

Designated states: AT BE CH CN DE DK ES FI FR GB GR IE IT JP KR LU MC NL PT SE US