



New connection on: : 12-09-2018 : 01:37:42 - Last disconnection on: : 08-09-2018 : 06:49:06

V 4.0.0.44358(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#(D201802)) (RPM D201802)

Welcome to EPOQUE Rebuild under the Production Environment

[No database/cluster active] ..fi epodoc

 Database: EPODOC

[EPODOC: SS 1] absor+ and (Article or product) and (Fiber or fibre) and (dtex or denier) and (hidroph+ or hidrof+)

Results in EPODOC 0

[SS 2] absor+ and (Article or product) and (Fiber or fibre) and (dtex or denier)

Results in EPODOC 177

[SS 3] 2 and (non 2d woven)

Results in EPODOC 22

[SS 4] 3 and pd<20150101

Results in EPODOC 18

[SS 5] ..li



1/18 © EPODOC / EPO

PN - [TW200306212](#) A 20031116
PR - JP20020047630 20020225
AP - TW20030103784 20030224
DT - I
CCI - [A61F13/49003](#) ; [A61F13/534](#) ;
[A61F13/15268](#) ; [A61F13/15699](#)
PA - TORAY INDUSTRIES [JP]
TI - Body fluid **absorbent article** and
diaper



AB - The present invention relates to hygiene products such as diaper and the like which are made from fibers. More particularly, the present invention relates to hygiene products such as diaper and the like which can be repeatedly washed and are useful in hospital or domestic use. A body fluid **absorbent Article** provided with an air permeable and an **absorbing** material. The **absorbing** material has a fineness in the range 0.01 **dtex** to 2 **dtex** and is obtained by laminating multi-layers of **non-woven** fabric made from a synthetic **fiber**.

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PN - [KR20110048952](#) A 20110512

PNFP - KR101593694B B1 20160212

PR - KR20090105725 20091104

AP - KR20090105725 20091104

DT - I

CT - || STSE (A)
[KR20030076825](#) A 20030929 [] (KOLON INC [KR]);
[JP2009096972](#) A 20090507 [] (FUJIFILM CORP)

PA - (A)
 KOLON INC [KR]

TI - (A)
 ARTIFICIAL LEATHER AND METHOD FOR MANUFACTURING THE SAME
 - (B1)
 Artificial leather and method for manufacturing the same

AB - (A)
 PURPOSE: An artificial leather containing polymeric elastomer and a method for manufacturing the same are provided to prevent degradation of **product** quality and to discoloration. CONSTITUTION: An artificial leather is made by impregnating polymeric elastomer into **non-woven** fabric formed of extra fine **denier fiber**. The artificial feather is dyed by pigment and contains UV **absorbing** agent and UV stabilizing agent. The UV **absorbing** agent is triazine UV **absorber**. The UV stabilizing agent is sulfurnated benzotriazole derivative, bisazomethine derivative copper complex or mixture thereof. A method for manufacturing the artificial leather comprises: a step of preparing an artificial feather in which polymeric elastomer is impregnated in **non-woven** fabric; a step of impregnating UV **absorbing** agent; and a step of impregnating UV stabilizing agent to the artificial feather.

3/18 © EPODOC / EPO

PN - [KR20100126197](#) A 20101201

PNFP - KR101728913B B1 20170420

PR - JP20090124545 20090522

AP - KR20100046883 20100519

DT - I

CNOI - (A)
[A61F13/51121](#) ; [A61F13/512](#) ;
[A61F13/472](#) ; [A61L15/22](#)

CNOA - (A)
[A61F2013/51165](#)

PA - (A)
DAIO SEISHI KK [JP]

TI - (A B1)
ABSORPTIVE ARTICLE

AB - (A)
PURPOSE: An **absorbent product** is provided to feel good in touching to skins and to prevent gluey when liquid is remained on a surface while protecting many characteristic of cotton **fiber**, which is difficult to be a cause of itchyness and rash, thereby secluding the **absorbed** excretion liquid enough. CONSTITUTION: An **absorbent product** is constituted in posting **absorbent** body between a liquid permeable top sheet arranged on a surface and a back sheet arranged on another side. In a top sheet, a water repellent is sprayed on woven fabric comprised of spun lace **non woven** fabric which is comprised of cotton **fiber** 40~100 weight % and synthetic **fiber** 60~0 weight %. **Absorption** degree of skin contact plane is 0mm~5mm. A plurality of opening hole passing through inside and outside of the part of least excreting hole part. The synthetic **fiber**, which is used in top sheet, is a monofil of fineness 1.0~3.0 **dtex** which is based on olefin resin. The

thickness of a top sheet is 0.2~2.0mm, the weight per **fiber** unit surface of the sheet is 25~60g/m², opening surface of each of sheet is 0.5~8.0 mm² and opening rate is 15~65 %. The water repellent contains the steric acid compound. The coating amount of water repellent is 0.05~0.15 weight unit about the **fiber** 100 weight unit.

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PN - [US2002016120](#) A1 20020207

PR - JP19960179964
19960619; JP19960351863
19961211

AP - US19970973533 19971210

DT - **

CCI - [D04H1/54](#) ; [D04H1/541](#) ;
[D04H1/62](#)

CCA - [Y10T442/69](#) ; [Y10T442/627](#) ;
[Y10T442/633](#) ; [Y10T442/641](#) ;
[Y10T442/629](#) ; [Y10T442/632](#)

PA - CHISSO CORP [JP]

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

AB - 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

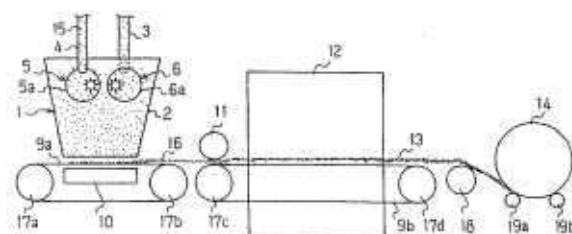


FIG. 1

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.

5/18 © EPODOC / EPO

- PN - [US2006019571](#) A1 20060126
- PNFP - US8030231 B2 20111004
- PR - EP20040016191 20040709
- AP - US20050176828 20050707
- DT - **
- CT - || STSE (B2)
 - [US5130073](#) A 19920714 [] (MEIROWITZ RANDY E [US], et al)
 - [US5702992](#) A 19971230 [] (MARTIN JOHN P [US], et al)
 - [US5928973](#) A 19990727 [] (DANIEL MASON B [US], et al)
 - [US2002168911](#) A1 20021114 [] (TONNER KATHLEEN C [US])
 - [US2003119395](#) A1 20030626 [] (BROOKS JOANN ADELE [US])
 - [US2004170836](#) A1 20040902 [] (BOND ERIC BRYAN [US], et al)
 - [US2005112980](#) A1 20050526 [] (STRANDQVIST MIKAEL [SE], et al)
 - [US2005137547](#) A1 20050623 [] (DIDIER GARNIER GIL B [US], et al)
 - || R141 (A1)
 - [US5605740](#) A [];
 - [US5094690](#) A [];
 - [US6699922](#) B2 [];
 - [US5626571](#) A [];
 - [US6569828](#) B1 [];
 - [US2005112980](#) A1 [];
 - [US2003119395](#) A1 [];
 - [US2005137547](#) A1 [];
 - [US5130073](#) A [];
 - [US5928973](#) A [];
 - [US2004170836](#) A1 [];
 - [US4775582](#) A [];
 - [US5964742](#) A [];
 - [US2002168911](#) A1 [];
 - [US5702992](#) A []
- CCI - [D04H1/42](#) ; [D04H1/425](#) ; [D04H1/4266](#) ; [D04H1/435](#) ; [D04H1/46](#) ; [D04H1/498](#) ; [D04H1/74](#)
- CCA - [Y10T442/697](#) ; [Y10T442/2484](#) ; [Y10T442/682](#) ; [Y10T442/615](#) ; [Y10T442/698](#) ; [Y10T442/686](#) ; [Y10T442/2525](#) ; [Y10T442/688](#) ; [Y10T442/614](#) ; [Y10T442/684](#)
- PA - (B2)
JOHNSON & JOHNSON GMBH [DE]

- TI - (A1 B2)
Absorbent personal care and/or cleansing **product** for cosmetic and/or dermatological applications comprising at least one **absorbent** sheet
- AB - (A1)
The present invention relates to an **absorbent** personal care and/or cleansing **product** for cosmetic and/or dermatological applications comprising at least one **non-woven absorbent** sheet comprising 10 to 100 wt. % lyocell fibers and 0 to 90 wt. % of at least one other natural, man-made natural and/or synthetic **fiber**, wherein the lyocell **fiber** has a **fiber** titer in the range from 0.5 to 3.5 **dtex**, wherein the **absorbent** sheet has a basis weight in the range from 20 to 500 g/m², and a tensile strength in the range from 5 to 1000 N/5 cm in machine direction and in cross direction. Further, the present invention relates to the use of said **absorbent product** as puffs, pads, wipes, tissues, towels, towelettes, sponges, brushes, cotton balls, gloves, mitts, cotton tip swabs or as a part thereof in cosmetic and/or dermatological applications, in particular as a basis onto which a cosmetic composition and/or dermatological cleansing and/or skin care composition, in particular in the form of a lotion, is being placed and/or into which said composition is being impregnated.
- (B2)
The present invention relates to an **absorbent** personal care and/or cleansing **product** for cosmetic and/or dermatological applications comprising at least one **non-woven absorbent** sheet comprising 10 to 100 wt. % lyocell fibers and 0 to 90 wt. % of at least one other natural, man-made natural and/or synthetic **fiber**, wherein the lyocell **fiber** has a **fiber** titer in the range from 0.5 to 3.5 **dtex**, wherein the **absorbent** sheet has a basis weight in the range from 20 to 500 g/m², and a tensile strength in the range from 5 to 1000 N/5 cm in machine direction and in cross direction. Further, the present invention relates to the use of said **absorbent product** as puffs, pads, wipes, tissues, towels, towelettes, sponges, brushes, cotton balls, gloves, mitts, cotton tip swabs or as a part thereof in cosmetic and/or dermatological applications, in particular as a basis onto which a cosmetic composition and/or dermatological cleansing and/or skin care composition, in particular in the form of a lotion, is being placed and/or into which said composition is being impregnated.

6/18 © EPODOC / EPO

- PN - [PT101473](#) A 19941130
- PR - JP19910110211U 19911111; JP19910294665 19911111; US19910810774 19911217; US19920944764 19920914; US19920957575 19921007
- AP - PT19940101473 19940309
- DT - I
- PA - PROCTER & GAMBLE [US]
- TI - **Absorbent article** e.g. diaper with melt-blown components - has top sheet bonded to back sheet containing acquisition layer and **absorbent** core
- AB - **Absorbent article**, partic. diaper, sanitary napkin, etc., has a topsheet (28) of liquid pervious material, pref. with apertures distributed over the main body portion, partic. comprising a **fibre**-entangled film of spunlaced **non-woven** fibres, fused to backsheet with acquisition layer (34) comprising a folded sheet of **non-woven** material with an average wet pore radius under no load of 40-90 microns. An **absorbent** core (32) comprises a web of meltblown fibres consisting of micro-**denier** fibres with an average

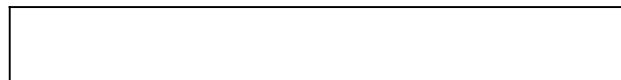
wet pore radius under no load of pref. 30-40 microns.

7/18 © EPODOC / EPO

- PN - [JP2003180748](#) A 20030702
- PR - JP20010383658 20011217
- AP - JP20010383658 20011217
- DT - I
- FI - A41B13/02&H; A61F13/15&352; A61F13/51; A61F13/56&210; A61F13/62&120; A61F5/44&Z
- FT - 3B029/BD01; 3B029/BD06; 3B200/AA01; 3B200/BA16; 3B200/BB04; 3B200/BB08; 3B200/BB20; 3B200/CA02; 3B200/DA21; 3B200/DD02; 3B200/DE01; 3B200/DE12; 3B200/DE13; 3B200/DE14; 3B200/DE16; 3B200/EA09; 3B200/EA24; 4C098/AA09; 4C098/CC10; 4C098/CE06; 4C098/CE10; 4C098/CE15; 4C098/DD10
- PA - DAIO SEISHI KK
- TI - TARGET TAPE MADE OF **NON-WOVEN** FABRIC AND **ABSORBENT ARTICLE** USING IT
- AB - PROBLEM TO BE SOLVED: To provide a target tape made of a **non-woven** fabric which has increased peeling strength in separating a hook member of a hook/loop fastener as a fastening tape and prevents reduction of the peeling strength after repeated attachments and detachments, and an **absorbent article** using the target tape made of the **non-woven** fabric.
- SOLUTION: The target tape 19 made of the **non-woven** fabric engages the hook member of the hook/loop fastener as the fastening tape 17 secured to the **absorbent article**. The target tape 19 made of the **non-woven** fabric is an air-through **non-woven** fabric formed by interweaving heat adhesive short fibers in high density and by bonding them thermally through blowing air of high temperature against webs made of many heat adhesive short fibers. The basis weight of the **non-woven** fabric is 17-50 g/m². The fineness of the short **fiber** of the **non-woven** fabric is 0.5-8 **denier**. The **absorbent article** uses the target tape made of the **non-woven** fabric.
- COPYRIGHT: (C)2003,JPO

8/18 © EPODOC / EPO

- PN - [JPH1161615](#) A 19990305
- PR - JP19970231118 19970827
- AP - JP19970231118 19970827
- DT - I
- FI - A47C27/12&B; B60N3/04&Z; D01F8/14&B; D04H1/54&A; D04H1/54&B; D04H1/541; D04H1/542; E04H15/20&Z
- FT - 2E141/GG00; 3B096/AD04; 3B096/BA01; 4L041/BA09; 4L041/BA21; 4L041/BA49; 4L041/BC04; 4L041/BD03; 4L041/BD09; 4L041/BD10; 4L041/BD11; 4L041/BD20;



4L041/CA06; 4L041/CA10;
 4L041/DD01; 4L041/DD03;
 4L041/DD05; 4L041/DD14;
 4L047/AA21; 4L047/AA23;
 4L047/AA27; 4L047/AA28;
 4L047/AB02; 4L047/AB07;
 4L047/AB09; 4L047/BA09;
 4L047/BB06; 4L047/BB09;
 4L047/CA04; 4L047/CA05;
 4L047/CB03; 4L047/CB10;
 4L047/CC09; 4L047/CC10;
 4L047/EA02

- PA - KANEBO LTD; NISSAN MOTOR
- TI - SOUND-**ABSORBING** MATERIAL
AND ITS PRODUCTION
- AB - PROBLEM TO BE SOLVED: To
efficiently, industrially easily
and profitably provide a
lightweight sound- **absorbing**
material, having good heat
resistance, excellent sound-
oscillating performance, good
sinking resiliency, high
cohesiveness and shape stability
under good work environment.
SOLUTION: This sound-**absorbing**
material is obtained by
compressing a **non-woven** fabric
comprising a **fiber** aggregate
having an average cut length of
20-100 mm, heating the
compressed **non-woven** fabric at
a temperature between the
softening temperature of
the **fiber** C and a lower softening
temperature among the softening
points of the **fiber** A and the **fiber**
B, and subsequently molding and
solidifying the heated fabric into
the molded **product** having an
average apparent density of 0.01-
0.8 g/cm³. The **fiber** aggregate
is obtained by homogeneously
blending 10-40 wt.% of (**fiber** A)
high softening temperature
synthetic staple fibers having a
fineness of 50-200 **denier**, 80-30
wt.% of (**fiber** B) high softening

temperature synthetic staple fibers having a fineness of 1.5-20 **denier** and 10-30 wt.% of (**fiber C**) synthetic staple fibers having a fineness of 1.5-15 **denier** and a lower softening point by at least 30 deg.C than the softening point of the **fiber A** or B having the lower softening temperature among the softening temperatures of the fibers A and B.

9/18 © EPODOC / EPO

- PN - [JP2001049531](#) A 20010220
- PR - JP19990219236 19990802
- AP - JP19990219236 19990802
- DT - I
- FI - A41B13/02&D; A47L13/16&A; A61F13/53&300; A61F13/534&100; D01F8/06; D01F8/10&C; D04H1/54&A; D04H1/541
- FT - 3B029/BA14; 3B029/BA17; 3B029/HA06; 3B029/HA08; 3B029/HB02; 3B074/AA02; 3B074/AA08; 3B074/AB01; 3B074/AC02; 3B200/AA01; 3B200/BA20; 3B200/BB01; 3B200/BB03; 3B200/BB08; 3B200/BB17; 3B200/BB20; 3B200/CA02; 3B200/DB02; 3B200/DB12; 3B200/DB16; 3B200/DB19; 4L041/AA07; 4L041/BA02; 4L041/BA05; 4L041/BA09; 4L041/BA21; 4L041/BA59; 4L041/BC04; 4L041/BD03; 4L041/BD11; 4L041/CA06; 4L041/CA36; 4L041/CA37; 4L041/CA38; 4L041/CA44; 4L041/DD01; 4L041/DD05; 4L041/DD14; 4L041/DD18; 4L047/AA14; 4L047/AA27; 4L047/AB07; 4L047/AB09; 4L047/BA09; 4L047/BB09; 4L047/CA19; 4L047/CB07; 4L047/CC16
- PA - CHISSO CORP
- TI - HEAT ADHESIVE COMPOSITE **FIBER**, **NON-WOVEN** FABRIC AND **NON-WOVEN** FABRIC-PROCESSED **ARTICLE** BY USING THE SAME
- AB - PROBLEM TO BE SOLVED: To obtain a heat adhesive composite **fiber** capable of adhering to a highly water-**absorbing** resin strongly by mixing with the highly water- **absorbing** resin and performing a heat-treatment for preventing it from falling off, and to provide a formed **article** by using the same **fiber**. SOLUTION: This heat adhesive composite **fiber** used together with a highly water-**absorbing** resin powder or highly water-**absorbing** resin comprises a low melting component constituted of mixture consisting of 30-100 wt.% ethylene- vinyl acetate copolymer consisting of 5-40 wt.% vinyl acetate with 60-95 wt.% ethylene or its saponified material as a component A, and 0-70 wt.% polyethylene as a component B, and a high melting component having a higher melting point by ≥ 15 deg.C than that of the low melting component, and is characterized in that the low melting component forms at least a part of the heat adhesive composite **fiber** surface continuously in its length direction and the heat adhesive composite **fiber** has 0.5-50 **denier** single **fiber** fineness.

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PN - [JP2001049530](#) A 20010220

PR - JP19990219235 19990802

AP - JP19990219235 19990802

DT - I

FI - A47L13/16&A; D01F8/06; D04H1/54&A; D04H1/54&C; D04H1/54I; D04H1/544; D04H1/72&D; D04H1/732

FT - 3B074/AA08; 3B074/AC03; 4L041/AA07; 4L041/BA02; 4L041/BA05; 4L041/BA09; 4L041/BA21; 4L041/BA46; 4L041/BA48; 4L041/BA49; 4L041/BA59; 4L041/BC02; 4L041/BD03; 4L041/BD07; 4L041/BD11; 4L041/BD20; 4L041/CA06; 4L041/CA36; 4L041/CA38; 4L041/CA63; 4L041/DD01; 4L041/DD05; 4L041/DD14; 4L047/AA14; 4L047/AA27; 4L047/AB02; 4L047/AB07; 4L047/AB09; 4L047/BA05; 4L047/BA09; 4L047/BA23; 4L047/BB09; 4L047/CA05; 4L047/CA19; 4L047/CB07; 4L047/CC04; 4L047/CC16

PA - CHISSO CORP

TI - HEAT ADHESIVE COMPOSITE **FIBER**, **NON-WOVEN** FABRIC AND **NON-WOVEN** FABRIC-PROCESSED **ARTICLE** BY USING SAME

AB - PROBLEM TO BE SOLVED: To obtain a heat adhesive composite **fiber** capable of adhering to a highly water-**absorbing** resin strongly by mixing with the highly water- **absorbing** resin and performing a heat-treatment for preventing it from falling off, and to provide a formed **article** by using the same **fiber**. SOLUTION: This heat adhesive composite **fiber** used together with a highly water-**absorbing** resin power or highly water-**absorbing** resin comprises a low melting component constituted of a modified polyolefin obtained by a grape polymerization with a vinyl monomer including at least one kind selected from an unsaturated carboxylic acid and an unsaturated carboxylic acid anhydride, and a high melting component having a higher melting point by ≥ 15 deg.C than that of the low melting component, and is characterized in that the low melting component forms at least a part of the heat adhesive composite **fiber** surface continuously in its length direction and the heat adhesive composite **fiber** has 0.5-50 **denier** single **fiber** fineness.

11/18 © EPODOC / EPO

PN - [JPH09309169](#) A 19971202

PNFP - JP3311955B B2 20020805

PR - JP19970051367 19970306; JP19960063055 19960319

AP - JP19970051367 19970306

DT - I

FI - A41B13/02&F; A61F13/15&340; A61F13/18&320; A61F13/514&100; A61F13/514&200; A61F13/514&213; A61F13/514&321; A61F5/44&H; B32B27/00&D; B32B27/00&K; B32B27/12; B32B5/02&C; B32B5/02&Z; C09J201/00; C09J201/00+JAP; D06C23/04&B; D06M17/00&K

FT - 3B029/BC02; 3B029/BC06; 3B029/BC07; 3B029/BF05; 3B154/AA01; 3B154/AA05; 3B154/AA11; 3B154/AA16; 3B154/AB22; 3B154/AB23; 3B154/BA38; 3B154/BA48; 3B154/BB02; 3B154/BB12; 3B154/BB39; 3B154/BB63; 3B154/BC24; 3B154/BD14; 3B154/BF01; 3B154/BF02; 3B154/BF07; 3B154/BF11; 3B154/BF12; 3B154/BF15; 3B154/BF17; 3B154/BF18; 3B154/BF30; 3B154/DA21; 3B200/AA01; 3B200/AA03; 3B200/BA07; 3B200/BA08; 3B200/BA16; 3B200/BA20; 3B200/BB03; 3B200/BB09;

3B200/BB20; 3B200/CA01; 3B200/DD02; 3B200/DD07; 3B200/EA08; 3B200/EA23;
 4C003/CA01; 4C003/CA04; 4C003/CA05; 4C003/CA06; 4C098/AA09; 4C098/CC03;
 4C098/CC05; 4C098/DD04; 4C098/DD10; 4C098/DD12; 4C098/DD24; 4F100/AA08;
 4F100/AK03G; 4F100/AK04; 4F100/AK63; 4F100/AR00A; 4F100/AR00C; 4F100/AR00D;
 4F100/BA02; 4F100/BA04; 4F100/BA07; 4F100/BA10A; 4F100/BA10C; 4F100/CA06G;
 4F100/CA16G; 4F100/CA30G; 4F100/CB00; 4F100/DD01; 4F100/DG01; 4F100/DG15B;
 4F100/EC181; 4F100/EC182; 4F100/EH012; 4F100/EH461; 4F100/EJ171; 4F100/EJ172;
 4F100/GB66; 4F100/GB71; 4F100/GB90; 4F100/JA06G; 4F100/JA12G; 4F100/JD04A;
 4F100/JD05A; 4F100/JD05C; 4F100/JD14; 4F100/JD14D; 4F100/JK06; 4F100/YY00A;
 4F100/YY00B; 4F100/YY00G; 4J040/BA171; 4J040/BA202; 4J040/DA001; 4J040/DA111;
 4J040/DA121; 4J040/DA131; 4J040/DA132; 4J040/DN032; 4J040/DN072; 4J040/EL012;
 4J040/KA26; 4J040/KA29; 4J040/KA31; 4J040/LA01; 4J040/LA06; 4J040/MA11;
 4J040/MB02; 4J040/MB03; 4J040/NA11; 4L032/AA05; 4L032/AB02; 4L032/AB04;
 4L032/AB07; 4L032/AC01; 4L032/AC03; 4L032/AC04; 4L032/BA05; 4L032/BB01;
 4L032/BC01; 4L032/BD01; 4L032/BD03; 4L032/CA03; 4L032/DA00; 4L032/EA02;
 4L032/EA06

- PA - (A)
 KAO CORP
- TI - (A)
 COMPOSITE SHEET, **ARTICLE OF ABSORPTION** CHARACTERISTICS AND ITS MANUFACTURE
- AB - (A)
 PROBLEM TO BE SOLVED: To provide a composite sheet of high bonding strength for which the generation of blocking is prevented. SOLUTION: A composite sheet 20 is formed by bonding a sheet 21 with a **non-woven** cloth 22 by a bonding agent 23, and the sheet 21 is a liquid non- permeable sheet of thickness of 15-40μm, and the **non-woven** cloth 22 is provided with the **fiber** diameter of 1.5-3.5 **denier** and the basis weight of 10-35g/m² , and amorphous polyalphaolefin(APAO) of 20wt.% or more is contained as a constituent in the bonding agent 23, and its melting viscosity is 500-10,000 CPS at 180 deg.C, and its coating quantity is 0.5-7g/m² .

12/18 © EPODOC / EPO

- PN - [WO03070142](#) A1 20030828
- PR - JP20020047630 20020225
- AP - WO2003JP01762 20030219
- DT - **
- CT - [JP] ISR (A1)
[JP2001286505](#) A 20011016 [Y] (KAO CORP);
[JPH0231755](#) A 19900201 [Y] (DAIO SEISHI KK);
[JPH0197255](#) A 19890414 [Y] (TORAY INDUSTRIES)
- CCI - [A61F13/49003](#) ; [A61F13/534](#) ; [A61F13/15268](#) ; [A61F13/15699](#)
- PA - TORAY INDUSTRIES [JP]; YAMAMOTO HIDEYUKI [JP]; SANO SHINJI [JP]; KOBAYASHI KIYOSHI [JP]; MORI KOJI [JP]; HORIIKE TAIZO [JP]; AIYAMA KAZUNORI [JP]; MIEDA KOICHI [JP]; SUGINO TOMOSHIGE [JP]
- TI - BODY FLUID **ABSORBING PRODUCT**, AND DIAPER
- AB - The invention relates to a sanitary **product**, such as a diaper, made of **fiber**, and more particularly to a sanitary **product**, such as a diaper, used in hospitals and in the home

and capable of being repetitively used as by washing. A body fluid **absorbing product** having an air-permeable top sheet and a water **absorbing** member disposed therein, the body fluid **absorbing product** being characterized in that the water **absorbing** member is composed by laminating a plurality of synthetic **fiber non-woven** fabric layers whose fineness ranges from 0.01 **dtex** to 2 **dtex**.

13/18 © EPODOC / EPO

PN - [GB996310](#) A 19650623

PR - US19610102130 19610411

AP - GB19620011950 19620328

DT - **

CCI - [C08J7/12](#) ; [D06M11/11](#) ; [D06M11/81](#) ; [D06M13/03](#) ; [D01F6/56](#)

PA - ROHM & HAAS

TI - Modified polymeric products

AB - A film, **fibre** or fibrous fabric formed from a polymeric mass which (1) has an apparent second order transition temperature of at least 20 DEG C., (2) is composed of linear polymeric molecules and (3) contains units of at least one polymerized monoethylenically unsaturated aromatic compound and units of at least one polymerized linear aliphatic polyene, is alkylated using hydrogen fluoride as an alkylation catalyst under such conditions that the aromatic nuclei in the polymeric mass are alkylated by polymerized polyene units giving a cross-linked **product** which is resistant to solvents. Alkylation of non-aromatic portions of the polymer system may also occur. The polymeric mass may be a copolymer of one or more linear aliphatic polymers with one or more of the aromatic compounds, preferably containing 50-95% by weight of the latter, or may be a blend of homo-polymers of each class of monomers or a blend of two or more copolymers. A blend with natural or synthetic rubbers may be used. The proportion of polymerized polyene in the mass is preferably 10-40% by weight. The preferred monoethylenically unsaturated aromatic compounds have the formula $CH_2=C(R)Z$, where R is hydrogen or an alkyl group, advantageously of less than 3 carbon atoms, and Z is an aryl group having an aromatic nucleus susceptible to alkylation. Specified compounds are vinyl aryls such as styrene vinyl naphthalene, vinyl diphenyl and vinyl fluorene and nuclear-substituted derivatives thereof, e.g. alkyl, aryl, alkaryl, aralkyl, cycloalkyl, alkoxy, aryloxy, chlorofluoro, chloromethyl, fluoromethyl and trifluoromethyl derivatives such as o-, m- and p-methyl-styrenes, dimethyl-styrenes, ethyl-styrenes, iso-propyl-styrenes, tolyl-styrenes, benzyl-styrenes, cyclohexyl-styrenes, methoxy-styrenes, phenoxy-styrenes, chlorostyrenes, fluorostyrenes, chloro - methyl - styrenes, fluoro-methyl-styrenes, trifluoro-methyl-styrenes, vinyl-methyl naphthalenes, vinyl-ethyl-naphthalenes, vinyl-chloro-naphthalenes and vinyl - methyl - chloro - naphthalenes. The corresponding a -methyl vinyl, a -ethyl vinyl and a -propyl vinyl compounds may also be used. Specified linear aliphatic polyenes are butadiene-1,3; isoprene; 2,3-dimethyl-butadiene-1,3; 2 - methyl - pentadiene - 1,3; hextriene-1,3,5; myrcene; ocimene; allo-ocimene; chloroprene; fluoroprene and 1-phenyl-butadiene-1,3. The material to be alkylated may be immersed in, sprayed with, or padded with liquid hydrogen fluoride at 20 DEG C. or less for e.g. 1 to 10 minutes, or in liquid hydrogen fluoride at 80 DEG C. or more under a pressure of up to 1000 lb./sq. inch, or gaseous hydrogen fluoride may be used at elevated temperature. The hydrogen fluoride, either gaseous or liquid, may be used in

conjunction with boron trifluoride. The intensity and duration of the treatment is preferably such that the material treated is rendered shrink proof at 90 DEG C. to 200 DEG C. or more, and is completely insoluble in organic solvents such as toluene. Termination of the alkylation may be effected by volatilization of the hydrogen fluoride followed by immersion of the material in water, methanol or an alkaline solution. The treatment is advantageously applied to fibres or films in which the molecules are orientated in at least one extensive direction as by stretching. The alkylation treatment is preferably such that 75% or more of this orientation is retained. It is not essential to tension the material during treatment. Such products may have a dry tensile strength of at least 0.5 grams/**denier**. An example describes the wet spinning of an aqueous dispersion, containing 5% toluene and 40% polymer solids consisting of 85 : 15 styrene and butadiene, into a coagulating bath containing aqueous hydrochloric acid and p-diisobutyl phenoxyethoxy ethyl dimethyl benzyl ammonium chloride at 85 DEG C. In a further example, a yarn of filaments of a blend of 85 parts of polystyrene and 15 parts of polybutadiene which has been stretched 500% is immersed in hydrogen fluoride at 15 DEG C. for 10 minutes, subjected to a stream of air at 30 DEG C., rinsed in water and dried. The resultant cross-linked yarn undergoes less than 4% shrinkage at up to 115 DEG C. The alkylation treatment may be applied to films, pellides, fibres, tows, yarns or all types of **woven** and **non-woven** fabrics. The alkylated products may be used for separation of organic liquids or as ion-exchange media (see Division B1).ALSO:A mixture of miscible organic liquids is separated by selective **absorption** on a cross-linked polymer prepared from a polymeric mass containing units of monoethylenically unsaturated aromatic compounds, and units of polymerized linear aliphatic polyenes, by treatment with hydrogen fluoride such that alkylation of aromatic nuclei by polyene units occurs (Divisions B5 and C3). The cross-linked polymer may be in the form of a filamentary tow. In examples, a column consisting of a tow of 80/20 polystyrene-polybutadiene is used to separate pyridine from iso-octane by elution with pentane, and ethylene dichloride from isooctane. Fibres, films and fabrics of the cross-linked polymers may be converted by amination, haloalkylation or sulphonation, into ion-exchange materials.

14/18 © EPODOC / EPO

PN - [EP0906981](#) A1 19990407

PNFP - EP0906981 A4 20041117

PR - WO1997JP02073
19970616; JP19960179964
19960619; JP19960351863
19961211

AP - EP19970926261 19970616

DT - *; Rep

CT - || STSE (A4)
[EP0483386](#) A1 19920506
[A] (TEIJIN LTD [JP])
[A] 1,3-7
* the whole document *;
[XP002298066](#) A[A];
[JPH0788259](#) A 00000000 [A]

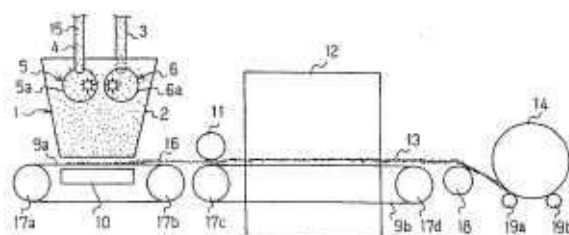


FIG. 1

CTNP	- STSE (A4) [A] - DATABASE WPI, O, Derwent World Patents Index, vol. 1995, no. 22, Database accession no. 1995-166446, XP002298066 & JPH0788259 A 19950404 (TOYOBO KK) [A] 1,3-5 * abstract *
CCI	- D04H1/54 ; D04H1/541 ; D04H1/62
CCA	- Y10T442/69 ; Y10T442/627 ; Y10T442/633 ; Y10T442/641 ; Y10T442/629 ; Y10T442/632
PA	- (A1 A4) - CHISSO CORP [JP]
TI	- (A1 A4) - NONWOVEN SHORT FIBRE FABRIC AND ABSORBENT ARTICLE MADE BY USING SAME
AB	- (A1) - 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. <IMAGE>

PN - [CN1769560](#) A 20060510

PNFP - CN1769560B B 20120411

PR - EP20040016191 20040709

AP - CN2005184459 20050708

DT - I

CCI - [D04H1/42](#) ; [D04H1/425](#) ; [D04H1/4266](#) ; [D04H1/435](#) ; [D04H1/46](#) ; [D04H1/498](#) ; [D04H1/74](#)

CCA - [Y10T442/697](#) ; [Y10T442/2484](#) ; [Y10T442/682](#) ; [Y10T442/615](#) ; [Y10T442/698](#) ; [Y10T442/686](#) ; [Y10T442/2525](#) ; [Y10T442/688](#) ; [Y10T442/614](#) ; [Y10T442/684](#)

PA - (A)
JOHNSON & JOHNSON GMBH [DE]

- (B)
JOHNSON & JOHNSON GMBH

TI - (A B)
An **absorbent** personal care **product** for cosmetic and/or dermatological applications comprising at least one **absorbent** sheet

AB - (B)
The present invention relates to an **absorbent** personal care and/or cleansing **product** for cosmetic and/or dermatological applications comprising at least one **non-woven absorbent** sheet comprising 10 to 100 wt. % lyocell fibers and 0 to 90 wt. % of at least one other natural, man-made natural and/or synthetic **fiber**, wherein the lyocell **fiber** has a **fiber** titer in the range from 0.5 to 3.5 **dtex**, wherein the **absorbent** sheet has a basis weight in the range from 20 to 500 g/m², and a tensile strength in the range from 5 to 1000 N/5cm in machine direction and in cross direction. Further, the present invention relates to the use of said **absorbent product** as puffs, pads, wipes, tissues, towels, towelettes, sponges, brushes, cotton balls, gloves, mitts, cotton tip swabs or as a part thereof in cosmetic and/or dermatological applications, in particular as a basis onto which a cosmetic composition and/or dermatological cleansing and/or skin care composition, in particular in the form of a lotion, is being placed and/or into which said composition is being impregnated.

16/18 © EPODOC / EPO

PN - [CN1799640](#) A 20060712

PR - CN2005122605 20051226

AP - CN2005122605 20051226

DT - I

PA - CHU SHENGWU [CN]

TI - Method for preparing liquid-**absorbent** hemostatic dressing for medical use

AB - The invention relates to a method for preparing a medical dressing of adsorbing liquid and hemostatic, comprising: cutting the **fiber** of 2.5-3.0 **denier** of the woven polyatomic acid acrylic copolymer to short **fiber** of 36-65mm, punching to **non-woven** fabrics, cutting into diamonds, then perforating the PE membrane into impermeable membrane with supersonic wave, enclosing the four edges of the cut diamond; perforating the PE membrane into impermeable membrane with supersonic wave using the dried hollow acetate **fibre non-woven** fabrics immersed with soluble chitose, enclosing the four

edges of the cut diamond, packing with polyester packing bag. The whole preparing process is carried out under dry condition with the relative humidity between 10% to 15%. The **product** is mainly used to remove the large quantity of wound effusion and make the effusion be adsorbed quickly, and realize purpose of hemostatic, antibiotic, cleaning operation wound, no pollution by foreign liquid and exudation, which guarantee the operation carried out successfully.

17/18 © EPODOC / EPO

PN	- CA2511644 A1 20060109	
PNFP	- CA2511644 C 20130521	
PR	- EP20040016191 20040709	
AP	- CA20052511644 20050706	
DT	- I	
CCI	- D04H1/42 ; D04H1/425 ; D04H1/4266 ; D04H1/435 ; D04H1/46 ; D04H1/498 ; D04H1/74	
CCA	- Y10T442/697 ; Y10T442/2484 ; Y10T442/682 ; Y10T442/615 ; Y10T442/698 ; Y10T442/686 ; Y10T442/2525 ; Y10T442/688 ; Y10T442/614 ; Y10T442/684	
PA	- (A1 C) JOHNSON & JOHNSON GMBH [DE]	
TI	- (A1 C) AN ABSORBENT PERSONAL CARE AND/ORCLEANSING PRODUCT FOR COSMETIC AND/OR DERMATOLOGICAL APPLICATIONS COMPRISING AT LEAST ONE ABSORBENT SHEET	
AB	- (A1) The present invention relates to an absorbent personal care and/or cleansing product for cosmetic and/or dermatological applications comprising at least one non-woven absorbent sheet comprising 10 to 100 wt. % lyocell fibers and 0 to 90 wt. % of at least one other natural, man- made natural and/or synthetic fiber , wherein the lyocell fiber has a fiber titer in the range from 0.5 to 3.5 dtex , wherein the absorbent sheet has a basis weight in the range from	

20 to 500 g/m², and a tensile strength in the range from 5 to 1000 N/5cm in machine direction and in cross direction. Further, the present invention relates to the use of said **absorbent product** as puffs, pads, wipes, tissues, towels, towelettes, sponges, brushes, cotton balls, gloves, mitts, cotton tip swabs or as a part thereof in cosmetic and/or dermatological applications, in particular as a basis onto which a cosmetic composition and/or dermatological cleansing and/or skin care composition, in particular in the form of a lotion, is being placed and/or into which said composition is being impregnated.

- (C)

The present invention relates to an **absorbent** personal care and/or cleansing **product** for cosmetic and/or dermatological applications comprising at least one **non-woven absorbent** sheet comprising 10 to 100 wt. % lyocell fibers and 0 to 90 wt. % of at least one other natural, man-made natural and/or synthetic **fiber**, wherein the lyocell **fiber** has a **fiber** titer in the range from 0.5 to 3.5 **dtex**, wherein the **absorbent** sheet has a basis weight in the range from 20 to 500 g/m², and a tensile strength in the range from 5 to 1000 N/5cm in machine direction and in cross direction. Further, the present invention relates to the use of said **absorbent product** as puffs, pads, wipes, tissues, towels, towelettes, sponges, brushes, cotton balls, gloves, mitts, cotton tip swabs or as a part thereof in cosmetic and/or dermatological

applications, in particular as a basis onto which a cosmetic composition and/or dermatological cleansing and/or skin care composition, in particular in the form of a lotion, is being placed and/or into which said composition is being impregnated.

18/18 © EPODOC / EPO

PN - [EP1614790](#) A1 20060111

PNFP - EP1614790 B1 20081008

PR - EP20040016191 20040709

AP - EP20040016191 20040709

DT - *; Rep

CT - || STSE (A1)

[WO03022318](#) A1 20030320

[X] (KIMBERLY CLARK CO [US])

[X] 1,4,7,8,10-14,16-20

* page 28, lines 16-36 *

* page 29, lines 10-17 *

* page 30, lines 25-35 *

* page 31, lines 20-34 *

* page 33, lines 14-16 *

* page 54, lines 7,8 *

* page 34, lines 28-34; figures 1-3 *

* page 38, lines 18-30; examples 13,14,16,17 *;

[US5928973](#) A 19990727

[X] (DANIEL MASON B [US], et al)

[X] 1,2,6-9,11-14

* column 2, lines 31-49 *

* column 3, lines 10-65 *

* column 4, lines 36-55 *

* column 5, lines 38-43 *

* column 6, lines 4-17; claim 1 *;

[US5350625](#) A 19940927

[X] (PETERSON ROBERT H [TN], et al)

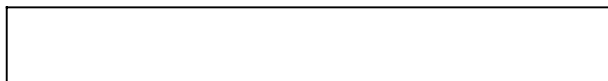
[X] 1,2,8,10-14

* column 6, line 62 - column 7, line 5; claims 1-4 *;

[WO03031557](#) A1 20030417

[A] (PROCTER & GAMBLE [US])

[A] 3



* page 45, lines 25-27 *

- CCI - [D04H1/42](#) ; [D04H1/425](#) ;
[D04H1/4266](#) ; [D04H1/435](#) ;
[D04H1/46](#) ; [D04H1/498](#) ;
[D04H1/74](#)
- CCA - [Y10T442/697](#) ; [Y10T442/2484](#) ;
[Y10T442/682](#) ; [Y10T442/615](#) ;
[Y10T442/698](#) ; [Y10T442/686](#) ;
[Y10T442/2525](#) ; [Y10T442/688](#) ;
[Y10T442/614](#) ; [Y10T442/684](#)
- PA - (A1 B1)
JOHNSON & JOHNSON GMBH [DE]
- TI - (A1 B1)
An **absorbent** personal
care **product** for cosmetic and/or
dermatological applications
comprising at least
one **absorbent** sheet
- AB - (A1)
The present invention relates to
an **absorbent** personal care
and/or cleansing **product** for
cosmetic and/or dermatological
applications comprising at least
one **non-woven absorbent** sheet
comprising 10 to 100 wt. %
lyocell fibers and 0 to 90 wt. % of
at least one other natural, man-
made natural and/or
synthetic **fiber**, wherein the
lyocell **fiber** has a **fiber** titer in
the range from 0.5 to 3.5 **dtex**,
wherein the **absorbent** sheet has
a basis weight in the range from
20 to 500 g/m², and a tensile
strength in the range from 5 to
1000 N/5cm in machine
direction and in cross direction.
Further, the present invention
relates to the use of
said **absorbent product** as puffs,
pads, wipes, tissues, towels,
towelettes, sponges, brushes,
cotton balls, gloves, mitts, cotton
tip swabs or as a part thereof in
cosmetic and/or dermatological
applications, in particular as a
basis onto which a cosmetic

composition and/or
dermatological cleansing and/or
skin care composition, in
particular in the form of a lotion,
is being placed and/or into
which said composition is being
impregnated.

[SS 5]