

Search query (6): [SP]: low linting imaged hydroentangled nonwoven composite hydroentangled composites having a wide variety of uses (e.g., personal hygiene articles, facers for fenestration absorbent patches on surgical drapes, facers on absorbent surgical drapes, etc.) are provided. the hydroentangled composite includes at least two nonwoven webs hydroentangled together. the hydroentangled composite may have a three-dimensional structure. additionally, the at least two nonwoven webs may have different bonding levels and/or lint levels.

Results: 13

1) Family number: 32619050 (US2008069845A)

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Title: SKIN COVERING SHEET FOR COSMETIC PREPARATION IMPREGNATION AND PROCESS FOR PRODUCING THE SAME, AND FACE MASK USING SHEET

Abstract: A skin application sheet for being impregnated with a cosmetic preparation is provided which is suitable for a face mask and so on, and causes less irritation to skin, and has good application properties. A splittable conjugate fiber web containing at least 50 percent by mass of splittable conjugate fibers is placed on one surface or both surfaces of a hydrophilic nonwoven containing at least 50 percent by mass of hydrophilic fibers and hydroentanglement treatment is conducted to split the splittable conjugate fibers into ultrafine fibers with a fineness of 0.5 dtex and to form a ultrafine fiber layer containing at least 10 percent by mass of the ultrafine fibers and to integrate the hydrophilic nonwoven and the ultrafine fiber layer so that a sheet is obtained. This sheet is impregnated with the cosmetic preparation and used in such a manner that the ultrafine fiber layer is a skin contact surface.

Classifications:

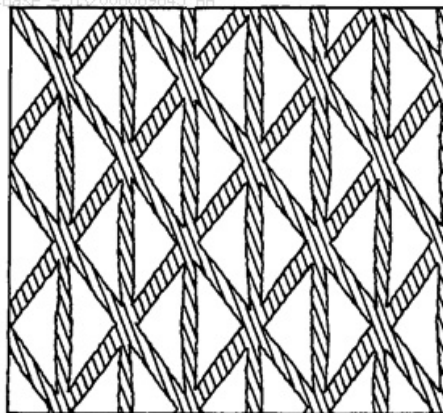
International (IPC 8-9): A45D A45D44/02 A45D44/22 A61K A61K8/00 A61K8/02 A61K8/73 A61K8/85 A61Q A61Q19/00 D01F8/00 D01H1/04 D04H D04H1/04 D04H1/425 D04H1/4374 D04H1/4382 D04H1/498 D04H3/10 D06M13/148 D06M13/184 D06M15/03 (Advanced/Invention); A61K8/00 A61Q19/00 (Core/Invention); A45D A61K (Subclass/Invention)

CPC: A61K8/0208 B32B5/26 D04H1/4374 D04H1/498 A45D44/002 B32B5/08 B32B2262/12 A61K8/0212 A61K8/731 A61K8/85 A61K8/86 A61Q13/00 A61Q15/00 A61Q17/04 A61Q19/00 A61Q19/06 A61Q19/10 Y10T442/2008 D04H3/11

European: A45D44/00M D04H1/04 D04H1/42 D04H1/46 D04H3/10B

US: 162/115 162/115S 424/401 424/401P 442/60 442/60S 514/772 514/772S

PatBase - US2008069845 A4



Family:

Publication number	Publication date	Application number	Application date
CA2575662 AA	20070129	CA20052575662	20050810
CA2575662 C	20100928	CA20052575662	20050810
CN100563499 C	20091202	CN200580027454	20050810
CN101010017 A	20070801	CN200580027454	20050810
EP1813167 A1	20070801	EP20050770690	20050810
EP1813167 A4	20121107	EP20050770690	20050810
EP1813167 A8	20071114	EP20050770690	20050810
HK1107232 A1	20100507	HK20080101090	20080128
HK1107232 A1	20080403	HK20080101090	20080128
HK1107232 A3	20080403	HK20080101090	20080128
HK1107232 B	20100507	HK20080101090	20080128
JP2006016601 A1	20080501	JP20060531679T	20050810
JP3944526 B1	20070711	JP20060531679T	20050810
JP3944526 B2	20070711	JP20060531679T	20050810
KR100788228 B1	20071227	KR20077003439	20050810
KR20070052754 A	20070522	KR20077003439	20070213
MX2007001329 A1	20070625	MX20070001329	20050810
US2008069845 AA	20080320	US20050660026	20050810
WO06016601 A1	20060216	WO2005JP14642	20050810

Priority:

JP20040234674 20040811 WO2005JP14642 20050810 WO2005JP14642 20070213

Probable Assignee: DAIWABO CO LTD

Assignee(s): (std): DAIWA SPINNING CO LTD ; PROCTOR AND GAMBLE ; MAKIHARA HIROKO ; OHNISHI KAZUYUKI ; DAIWABO POLYTEC CO LTD ; DAIWABO HOLDINGS CO LTD

Assignee(s): PROCTOR AND GAMBLE CO ; DAIWA SPINNING CO ; PROCTOR AND GAMBLE CO ; THE PROCTOR AND GAMBLE COMPANY ; DAIWABO POLYTEC CO ; DAIWABOCO LTD ; DAIWABOPOLYTECCO LTD ; THE PROCTOR AND GAMBLE COMPANY ; DAIWABO CO ; DAIWABO CO LTD ; DAIWABO HOLDINGS CO

Inventor(s): (std): MAKIHARA HIROKO ; OHNISHI KAZUYUKI ; KAZUYUKI MAKIHARA HIROKO OHNIS ; HIROKO MAKIHARA ; KAZUYUKI OHNISHI

Inventor(s): MAKIHARA HIROKO OHNISHI KAZUYUKI

Agent(s): KIRBY EADES GALE BAKER; MARKS AND CLERK; TAMURA YASUO; SAMEJIMA MUTSUMI; GENBA SANAE; HAMRE SCHUMANN MUELLER AND LARSON PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LK LR LS LT LU LV MA MC MD ME MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

2) Family number: 3822118 (US3683921A)

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Title: ABSORBENT SPONGES

Abstract: A bonded, self-sustaining, single-use, disposable absorbent product having excellent softness and excellent strength, bulk, resilience and resistance to surface abrasion and linting, particularly when wet, comprising a plurality of layers of reinforced nonwoven textile fabrics, each of said layers comprising a synthetic polymeric thermoplastic reinforcing reticulate grid netting covered on each side by at least one layer of overlapping, intersecting fibers mechanically intertwined around and bonded to the individual elements of said grid netting, said plurality of layers of reinforced nonwoven textile fabrics being secured together at their peripheral edges to form a bonded, self-sustaining, single-use, disposable absorbent product, having excellent softness and excellent strength, bulk, resilience and resistance to surface abrasion and linting particularly when wet.

Classifications:

International (IPC 8-9): A61F13/00 A61F13/15 A61L15/24 D04H13/00 (Advanced/Invention);

A61F13/00 A61F13/15 A61L15/16 D04H13/00 (Core/Invention)

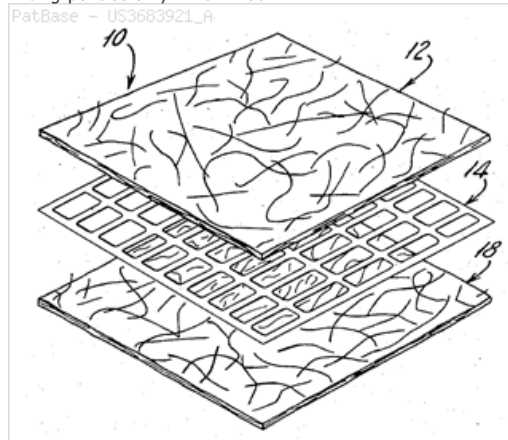
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European: A61F13/00 A61F13/00A4D A61F13/15M5 A61L15/24 B32B31/00A8B3B B32B37/12D2 D04H13/00B D04H13/00B4

K61F13/00L5A6 K61F13/534 K61F13/534C K61F13/539C2

US: 442/392 604/366 604/371 604/372 604/373



Family:

Publication number	Publication date	Application number	Application date
FR2102312 A1	19720407	FR19710029990	19710817
FR2102312 B1	19770121	FR19710029990	19710817
GB1367959 A	19740925	GB19710051558	19711105
NL7111337 A	19720221	NL19710011337	19710817
US3683921 A	19720815	US19700064455	19700817
ZA7105487 A	19730328	ZA19710005487	19710817

Priority:

US19700064455 19700817 GB19710051558 19711105

Probable Assignee: JOHNSON AND JOHNSON

Assignee(s): (std): BERRY A BROOKS ; JOHNSON AND JOHNSON ; NORMAN R EISDORFER

Assignee(s): JOHNSON ET JOHNSON ; JOHNSON JOHNSON

Inventor(s): (std): BROOKS BERRY A ; EISDORFER NORMAN R ; BROOKS B ; EISDORFER N

Inventor(s): NORMAN R EISDORFER ; BERRY A BROOKS

3) Family number: 30902275 (US2004175556A)

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Title: TEXTURED FABRICS APPLIED WITH A TREATMENT COMPOSITION

Abstract: A textured fabric having at least one surface that contains peaks and valleys is provided. Greater than about 90 percent of the peaks and less than about 10 percent of the valleys are disposed with a treatment composition, the treatment composition comprising a latex polymer. In one embodiment, for example, the textured fabric is a hydraulically entangled composite fabric formed from a spunbond nonwoven web and pulp fibers. When coated onto the fabric, the treatment composition may form a thin film layer on the fiber surface that prevents fibers or zones of fibers from breaking away from the surface as lint. Further, because the coating is applied only to the peaks, the valleys may remain free of the latex polymer and substantially maintain the absorbency of the uncoated fabric.

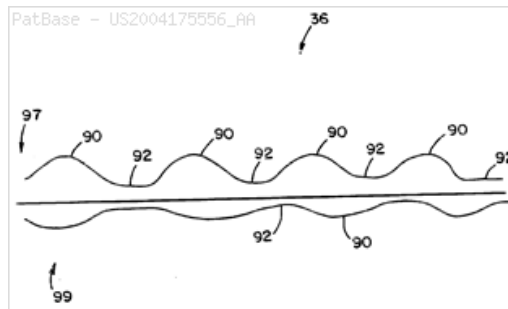
Classifications:

International (IPC 8-9): B31F1/12 B32B27/04 B32B27/12 B32B3/30 B32B5/00 B32B5/26 D04H1/00 D04H1/46 D04H1/48 D04H1/49 D04H1/495 D04H1/58 D04H1/62 D04H1/64 D04H13/00 D04H3/00 D04H3/12 D04H3/16 D04H5/00 D04H5/04 (Advanced/Invention); D04H1/48 D04H1/64 D04H3/12 D04H5/04 (Advanced/Non-invention); B32B27/04 B32B27/12 B32B5/22 D04H1/00 D04H1/46 D04H1/48 D04H1/58 D04H1/64 D04H13/00 D04H3/00 D04H3/08 D04H3/16 D04H5/00 (Core/Invention); D04H (Subclass/Invention)

International (IPC 1-7): B32B27/04 B32B27/12 B32B5/26 D04H1/00 D04H1/48 D04H1/62 D04H1/64 D04H13/00 D04H3/00 D04H3/12

D04H3/16 D04H5/00 D04H5/04

CPC: Y10T428/24446 Y10T428/24455 Y10T442/20 Y10T442/2762
Y10T442/277 Y10T442/2779 Y10T442/659 Y10T442/66 Y10T442/681
Y10T428/249943 D04H1/49 D04H1/64 D04H1/488 D04H1/498 D04H5/03
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B32B2305/20 D04H3/015 D04H3/11 D06M2101/06 D10B2201/00
European: D04H1/46B D04H1/58 D04H13/00B3
US: 428/152 428/153 428/298.4 442/152 442/153 442/154 442/381
442/382 442/401 442/59



Family:

Publication number	Publication date	Application number	Application date
AU2004217541 AA	20040916	AU20040217541	20040211
AU2004217541 BB	20081030	AU20040217541	20040211
BRPI0407687 A	20060301	BR2004PI07687	20040211
BRPI0407687 B1	20170411	BR2004PI07687	20040211
CA2516524 AA	20050818	CA20042516524	20040211
CA2516524 C	20111115	CA20042516524	20040211
DE602004017428 D1	20081211	DE200460017428T	20040211
EP1599627 A1	20051130	EP20040710244	20040211
EP1599627 B1	20081029	EP20040710244	20040211
KR101092771 B1	20111209	KR20057015147	20040211
KR20050107429 A	20051111	KR20057015147	20040211
MXPA05008811 A1	20051018	MX2005PA08811	20040211
US2004175556 AA	20040909	US20030378282	20030303
US7815995 BB	20101019	US20030378282	20030303
WO04079076 A1	20040916	WO2004US04062	20040211
ZA200506659 A	20070328	ZA20050006659	20040211

Priority:

US20030378282 20030303 WO2004US04062 20040211

Probable Assignee: KIMBERLY CLARK CORP

Assignee(s): (std): CLARK JAMES W ; DETAMORE JAMES ; KIMBERLY CLARK CO ; KIMBERLY CLARK CORP ; XIE MING

Assignee(s): KIMBERLY CLARK WORLDWIDE INC ; KIMBERLEY CLARK WORLDWIDE INC

Inventor(s): (std): CLARK JAMES W ; XIE MING ; DETAMORE JAMES J ; DETAMORE JAMES ; JAMES W CLARK ; JAMES DETAMORE ; MING XIE

Agent(s): SPRUSON AND FERGUSON; BORDEN LADNER GERVAIS LLP; DAVIES CHRISTOPHER ROBERT; DORITY AND MANNING PA

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

4) Family number: 15729325 (US6314627B)

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Title: HYDROENTANGLED FABRIC HAVING STRUCTURED SURFACES

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.

Classifications:

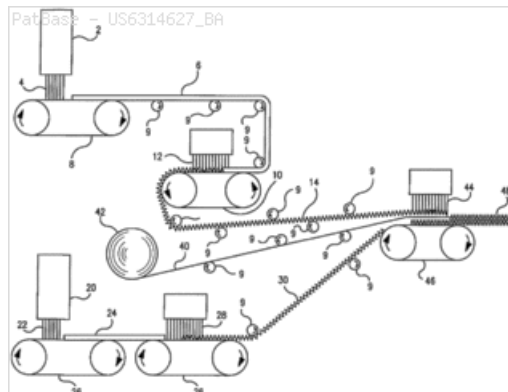
International (IPC 8-9): B32B5/26 B32B7/08
D04H13/00 (Advanced/Invention);
B32B5/22 B32B7/08 D04H13/00 (Core/Invention)

International (IPC 1-7): D04H1/46

CPC: B32B7/08 B32B5/26 D04H1/492 D04H1/495 D04H1/498

European: B32B5/26 B32B7/08 D04H13/00B3B

US: 28/104 28/105 281/40



Family:

Publication number	Publication date	Application number	Application date
US6314627 BA	20011113	US19990342799	19990629

Priority:

US19980091236P 19980630 US19990342799 19990629

Probable Assignee: POLYMER GROUP INC

Assignee(s): (std): POLYMER GROUP INC

Assignee(s): WILMINGTON TRUST CO ; FABRENE CORP ; FABRENE GROUP LLC ; FIBERGOL CORP ; FIBERTECH GROUP INC ; FNA ACQUISITION INC ; FNA POLYMER CORP ; LORETEX CORP ; PGI EUROPE INC ; PGI POLYMER INC ; PNA CORP ; POLY BOND INC ; POLYLONIX SEPARATION TECHNOLOGIES INC ; PRISTINE BRANDS CORP ; TECHNETICS GROUP INC ; WILMINGTON TRUST CO SECOND LIEN COLLATERAL AGENT A ; WILMINGTON TRUST CO SECOND LIEN COLLATERAL AGENT AS ; BONLAM (SC) INC ; BONLAM INC ; BONLAM SC INC ; CHICOPEE INC ; CITICORP NORTH AMERICA INC ; DOMINION TEXTILE INC ; FABPRO ORIENTED POLYMERS INC ; CITICORP NORTH AMERICA INC COLLATERAL AGENT AS ; CITICORP NORTH AMERICA INC FIRST LIEN COLLATERAL A ; DOMINION TEXTILE (USA) INC ; DOMINION TEXTILE USA INC ; CITICORP NORTH AMERICA INC FIRST LIEN COLLATERAL AGENT AS

Inventor(s): (std): NGAU MOU C

5) Family number: 2843415 (US4802257A)

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Title: Wiper blade for cleaning window panes of motor vehicles

Abstract: This invention describes a wiper blade with a substantially U-shaped supporting yoke between the side walls of which is fixed a component part which, coaxially to bores in the side walls of the supporting yoke, has a bearing bore for a pivot pin connecting the wiper blade and wiper arm. The diameter of the bore in the side walls is larger than the diameter of the pivot pin, so that a metallic contact between pivot pin and side walls of the supporting yoke is prevented. In order to secure the position of the bearing axially a metallic locking spring is additionally fixed in this component part which cooperates with a groove in the pivot pin.

Classifications:

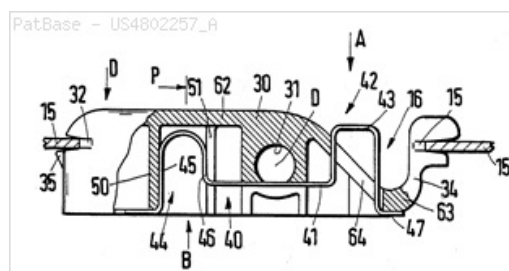
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International (IPC 1-7): B60S1/38 B60S1/40

CPC: B60S1/3801 B60S1/40 B60S1/4074 B60S2001/3812

European: B60S1/38A B60S1/40 B60S1/40H6 L60S1/38F

US: 15/250.31 15/250.32 15/250.42 15/250.44 152/503.2



Family:

Publication number	Publication date	Application number	Application date
DE3625063 A1	19880204	DE19863625063	19860724
DE3625063 C2	19880511	DE19863625063	19860724
US4802257 A	19890207	US19870074002	19870716

Priority:

DE19863625063 19860724 DE19863625063 19860724

Probable Assignee: SWF AUTO ELECTRIC GMBH

Assignee(s): (std): SWF AUTO ELECTRIC GMBH

Assignee(s): SWF AUTO ELECTRIC GMBH 7120 BIETIGHEIM BISSINGEN DE

Inventor(s): (std): EDELE REINHARD ; SCHMID ECKHARDT

Inventor(s): SCHMID ECKHARDT 7129 BRACKENHEIM DE ; EDELE REINHARD 7120 BIETIGHEIM BISSINGEN DE

6) Family number: 56095597 (TWM475384Y)

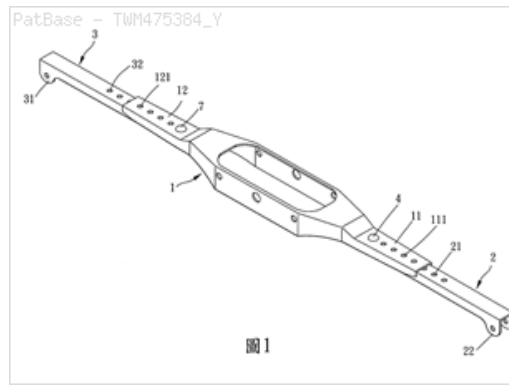
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Title: ADJUSTABLE WINDSHIELD WIPER

Abstract: The utility model provides an adjustable windshield wiper. The adjustable windshield wiper comprises a support, a first sliding piece, a second sliding piece and a fastening piece. The support is provided with a first arm portion and a second arm portion. The first sliding piece is arranged at the first arm portion in a sliding mode, and the second sliding piece is arranged at the second arm portion. The end, farthest away from the support, of the first sliding piece and the end, farthest away from the support, of the second sliding piece are respectively provided with a connection portion used for being connected with a cleaning device so as to clean windshields. Thus, the relative position of the first sliding piece and the support can be adjusted according to cars with the windshields of different sizes, manufacturers can produce windshield wipers of various sizes just by preparing a mould, manufacturing is quite convenient, and the manufacturing cost can be effectively lowered.

Classifications:

International (IPC 8-9): B60S1/32 B60S1/38 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN203958079 U	20141126	CN201420291138U	20140603
TWM475384 Y	20140401	TW20130223222U	20131210

Priority:

TW20130223222U 20131210

Probable Assignee: FAIDEK CORP

Assignee(s): (std): FAIDEK CORP ; HUAIDAI IND CO LTD

Assignee(s): HUAIDAI INDUSTRIAL CO ; HUAI GENERATION INDUSTRIAL CO LTD

Inventor(s): (std): GUO MING YI ; GUO MINGYI

7) Family number: 67616635 (USD803580S)

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Title: FABRIC

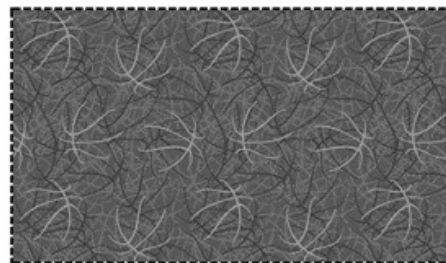
Abstract: [Source: Claim 1] The ornamental design for a fabric, as shown and described.

Classifications:

US: D5/59

Locarno class: 05/05

PatBase - USD803580_S1



Family:

Publication number	Publication date	Application number	Application date
USD803580 S1	20171128	US20160564254F	20160511

Priority:

US20160564254F 20160511

Probable Assignee: WELLS III VERNON

Assignee(s): (std): WELLS III VERNON

Inventor(s): (std): WELLS III VERNON

8) Family number: 28831665 (US2003135967A)

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Title: NONWOVEN FABRICS HAVING A DURABLE THREE-DIMENSIONAL IMAGE

Abstract: The present invention is directed to a method of forming a nonwoven fabric, which exhibits a pronounced three-dimensional image that is durable to both converting and end-use application. In particular, the present invention contemplates that a fabric is formed from a precursor web comprising at least one support layer or scrim, which when subjected to hydroentanglement on a moveable imaging surface of a three-dimensional image transfer device, an enhanced product is achieved. By formation in this fashion, hydroentanglement of the precursor web results in a more pronounced three-dimensional image; an image that is durable to abrasion and distortion due to elongation.

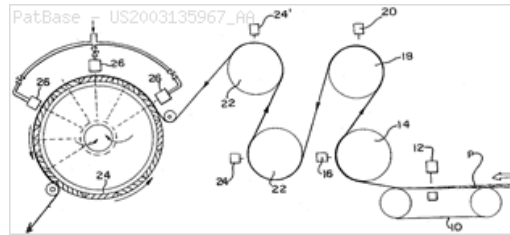
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International (IPC 8-9): B32B5/26 D04H1/46 D04H13/00 D04H3/10 D04H5/02 (Advanced/Invention)

International (IPC 1-7): B32B5/26 D04H1/46 D04H13/00 D04H3/10 D04H5/02

CPC: D04H1/49 D04H1/495

European: D04H1/46B D04H13/00B2 D04H13/00B3B
US: 28/104 28/104P 28/106



Family:

Publication number	Publication date	Application number	Application date
AU2002364065 AA	20030724	AU20020364065	20021217
AU2002364065 AH	20030724	AU20020364065	20021217
DE60221432 D1	20070906	DE20026021432	20021217
DE60221432 D1	20070906	DE20026021432T	20021217
DE60221432 T2	20080417	DE20026021432T	20021217
EP1458914 A2	20040922	EP20020798532	20021217
EP1458914 A4	20050309	EP20020798532	20021217
EP1458914 B1	20070725	EP20020798532	20021217
US2003135967 AA	20030724	US20020322064	20021217
US6735833 BB	20040518	US20020322064	20021217
WO03057960 A2	20030717	WO2002US40485	20021217
WO03057960 A3	20040212	WO2002US40485	20021217

Priority:

US20010344259P 20011228 US20020322064 20021217 WO2002US40485 20021217

Probable Assignee: AVINTIV SPECIALTY MATERIALS INC

Assignee(s): (std): POLYMER GROUP INC

Assignee(s): WILMINGTON TRUST CO ; LORETEX CORP ; PGI EUROPE INC ; PGI POLYMER INC ; PNA CORP ; POLY BOND INC ; POLYLONIX SEPARATION TECHNOLOGIES INC ; PRISTINE BRANDS CORP ; TECHNICS GROUP INC ; JPMORGAN CHASE BANK ; WILMINGTON TRUST CO COLLATERAL AGENT AS ; WILMINGTON TRUST CO SECOND LIEN COLLATERAL AGENT A ; STOWERS DOUGLAS ; WILBOURN KEITH ; PUTNAM MICHAEL ; MOODY RALPH A ; WILMINGTON TRUST CO SECOND LIEN COLLATERAL AGENT AS ; US BANK NATIONAL ASSOCIATION COLLATERAL AGENT AS ; AVINTIV SPECIALTY MATERIALS INC ; AVINTIV SPECIALTY MATERIALS INC F K A POLYMER GROUP INC ; BANK OF AMERICA NA ABL COLLATERAL AGENT AS ; BONLAM (SC) INC ; BONLAM INC ; BONLAM SC INC ; CHICOPEE INC ; CITIBANK NA COLLATERAL AGENT AS ; CITICORP NORTH AMERICA INC ; DOMINION TEXTILE INC ; FABPRO ORIENTED POLYMERS INC ; FABRENE CORP ; FABRENE GROUP LLC ; FIBERGOL CORP ; FIBERTECH GROUP INC ; FNA ACQUISITION INC ; FNA POLYMER CORP ; CITICORP NORTH AMERICA INC COLLATERAL AGENT AS ; CITICORP NORTH AMERICA INC FIRST LIEN COLLATERAL A ; DOMINION TEXTILE (USA) INC ; EDWARD CHANG KUO SHU ; DOMINION TEXTILE USA INC ; CITICORP NORTH AMERICA INC FIRST LIEN COLLATERAL AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH TERM COLLATERAL AGENT AG AS

Inventor(s): (std): CHANG KUO SHU EDWARD ; DOUGLAS STOWERS ; EDWARD CHANG KUO SHU ; KEITH WILBOURN ; KUO SHU EDWARD CHANG ; MICHAEL PUTNAM ; MOODY III RALPH A ; MOODY RALPH A ; MOODY RALPH A III ; PUTNAM MICHAEL ; RALPH A ; RALPH A III MOODY ; STOWERS DOUGLAS ; WILBOURN KEITH

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 CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ 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 OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

9) Family number: 64694755 (US2017015279A)

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Title: WINDSHIELD WIPER BLADE WITH ADJUSTABLE LENGTH

Abstract: The present invention relates to a device including a wiper blade having a length measured from a first end of the wiper blade to a second end of the wiper blade that is adjustable without removal of material of the wiper blade and a housing removably connected to the wiper blade. The present invention also relates to a method of adjusting a length of a wiper blade including providing a wiper blade having a first length and adjusting said wiper blade to have a second length different than the first length without removal of material of the wiper blade.

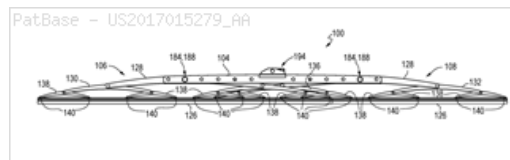
Classifications:

International (IPC 8-9): B60S1/28 B60S1/38 (Advanced/Invention)

CPC: B60S1/381 B60S2001/3815 B60S1/3848 B60S2001/3837

B60S1/3801 B60S1/28

US: 15/250.39



Family:

Publication number	Publication date	Application number	Application date
CN108025703 A	20180511	CN201680052791	20160715
KR20180031011 A	20180327	KR20187004047	20160715
MX2018000467 A1	20180528	MX20180000467	20160715
US2017015279 AA	20170119	US20160211611	20160715
WO17011749 A1	20170119	WO2016US42501	20160715

Priority:

US20150192802P 20150715 US20160211611 20160715 WO2016US42501 20160715

Probable Assignee: ILLINOIS TOOL WORKS INC

Assignee(s): (std): ILLINOIS TOOL WORKS

Assignee(s): ILLINOIS TOOL WORKS INC ; LAUNCH DESIGN LLC

Inventor(s): (std): HILL TRAVIS SHANE ; ROSAS MARTIN WILLIAM ; TEAL KENNETH HENRY ; MARTIN WILLIAM ROSAS ; TRAVIS SHANE HILL ; KENNETH HENRY TEAL

Agent(s): GILLEN DANIELLE C

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

10) Family number: 11225846 (US5228167A)

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Title: Adjustable length windshield wiper

Abstract: The invention is an adjustable windscreen wiper whose length shall be freely adjustable to fit windscreen of all sizes with a compact structuring to lower manufacture cost and higher the value of wiper.

Classifications:

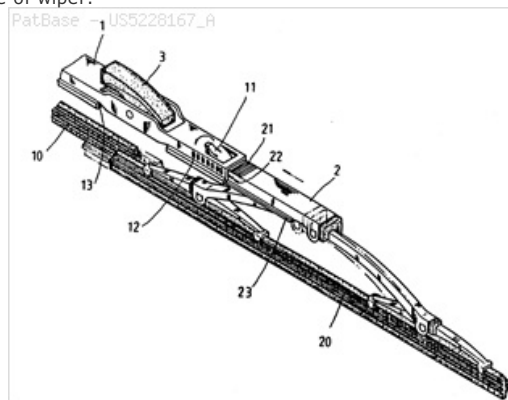
International (IPC 8-9): B60S1/38 (Advanced/Invention); B60S1/38 (Core/Invention)

International (IPC 1-7): B60S1/04 B60S1/28 B60S1/38

CPC: B60S1/38 B60S1/3801 B60S2001/3812 B60S2001/3815

European: B60S1/38 B60S1/38A L60S1/38F L60S1/38F2B

US: 15/250.39 15/250.41 15/250.42 15/250.46



Family:

Publication number	Publication date	Application number	Application date
GB2267815 A1	19931222	GB19920012721	19920616
GB9212721 A0	19920729	GB19920012721	19920616
US5228167 A	19930720	US19920900458	19920618

Priority:

GB19920012721 19920616 US19920900458 19920618

Probable Assignee: CHEN KUO CHING

Assignee(s): (std): YANG MING TUNG

Assignee(s): CHEN KUO CHING ; MING TUNG YANG

Inventor(s): (std): YANG MING TUNG

Inventor(s): MING TUNG YANG

11) Family number: 29372909 (US5369858A)

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Title: PROCESS FOR FORMING APERTURED NONWOVEN FABRIC PREPARED FROM MELT BLOWN MICROFIBERS

Abstract: A nonwoven fabric comprising at least one layer of textile fibers or net of polymeric filaments and at least one web of melt blown microfibers, bonded together by hydroentangling. The nonwoven fabric may be apertured by hydroentangling or may have areas of higher density and areas of lower density. The fabric has a favorable combination of softness, dryness, tensile strength and hand. Several processes are provided for producing the nonwoven fabric of the invention.

Classifications:

International (IPC 8-9): A61F13/15 B32B5/26 B32B7/08 D04H1/46 D04H1/54 D04H13/00 (Advanced/Invention);

A61F13/15 B32B5/22 B32B7/08 D04H1/46 D04H1/54 D04H13/00 (Core/Invention)

International (IPC 1-7): B32B5/16 D04H1/44 D04H1/46 D04H1/70

CPC: Y10T442/159 B32B5/26 B32B7/08 D04H1/495 A61F13/15577

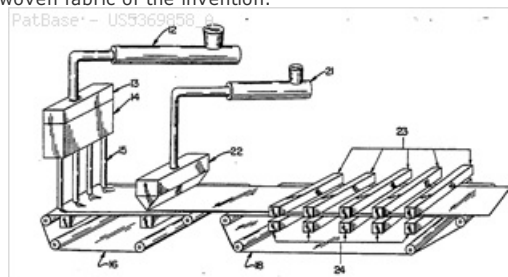
A61F13/51121 A61F13/5122 A61F13/513 A61F13/51305 D04H1/498

D04H1/56 D04H3/045 D04H1/54

European: A61F13/511 B32B5/26 B32B7/08 D04H1/46B D04H1/54

D04H13/00B3B K61F13/512

US: 28/104 28/105 428/284 442/35



Family:

Publication number	Publication date	Application number	Application date
EP0418493 A1	19910327	EP19900113873	19900719

JP3137257 A2	19910611	JP19900199356	19900730
US5369858 A	19941206	US19920932378	19920819

Priority:

US19890386457 19890728 US19920932378 19920819

Probable Assignee: BBA NONWOVENS SIMPSONVILLE INC

Assignee(s): (std): FIBER UEBU NORTH AMERICA INC ; FIBERWEB NORTH AMERICA INC

Assignee(s): BBA NONWOVENS SIMPSONVILLE INC

Inventor(s): (std): AUSTIN JARED ; DEBITSUDO NIYUUKAAKU ; GAI SUTANREI JIMUMAAMAN JIYUNI ; GILMORE THOMAS ; JIYARETSUDO OOSUCHIN ; JOHNSTON MILO ; NEWKIRK DAVID ; TOOMASU GIRUMOA ; ZIMMERMAN GUY STANLEY JR ; ZIMMERMAN JR GUY S

Inventor(s): GAI SUTANREI JIMUMAAMAN JIYUNIA

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

12) Family number: 38292950 (EP1839972A1)

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Title: WINDSCREEN WIPER FOR A GLASS SURFACE OF AN AUTOMOBILE

Abstract: The wiper has an arm including a brush (4) provided with a support (10) supporting a main squeegee (6), where the brush is placed on a glazed surface (3) e.g. plane glazed surface, of a front windscreen. The support has a longitudinal hollow slide (22) in which a guide shoe (8) slides. The shoe freely displaces in the slide based on a position of the brush in front of the surface. The shoe is reunited at an end of an elongated flexible lip (7) by supporting against the surface, where the lip is driven by the squeegee. Another end has a rotational axis (9) that is fixed to a cab interior.

Classifications:

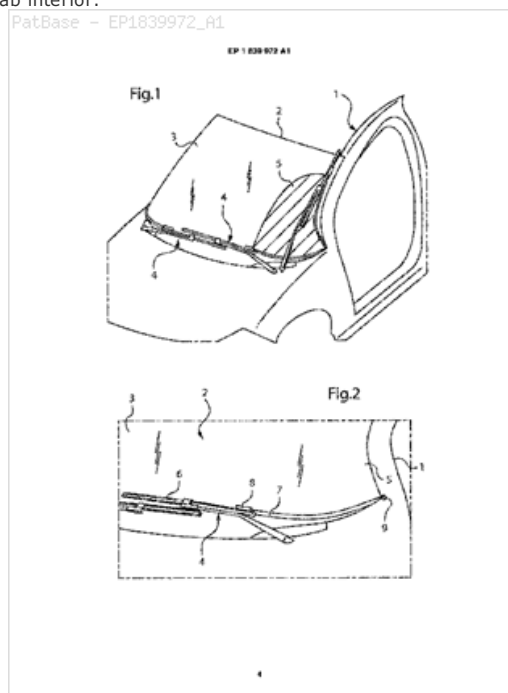
International (IPC 8-9): B60S1/28 B60S1/38

B60S1/40 (Advanced/Invention);

B60S1/04 B60S1/32 B60S1/38 (Core/Invention)

CPC: B60S1/0461 B60S1/28 B60S2001/3837

European: B60S1/04M4B B60S1/28 L60S1/38H4B



Family:

Publication number	Publication date	Application number	Application date
EP1839972 A1	20071003	EP20070300876	20070319
FR2899182 A1	20071005	FR20060051103	20060330
FR2899182 B1	20080613	FR20060051103	20060330

Priority:

FR20060051103 20060330 FR20060651103 20060330

Probable Assignee: PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s): (std): PEUGEOT CITROEN AUTOMOBILES SA

Assignee(s): PEUGEOT CITROEN AUTOMOBILES SA SOCIETE ANONYME ; PEUGEOT CITROEN AUTOMOBILES SA ; PEUGEOT CITROEN AUTOMOBILES S A

Inventor(s): (std): JEUFFE GERARD

Inventor(s): GERARD JEUFFE

Agent(s): PSA PEUGEOT CITROEN

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO SE SI SK TR YU

13) Family number: 64694971 (US2017016158A)

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Abstract: Hydroentangled composites having a wide variety of uses (e.g., personal hygiene articles, facers for fenestration absorbent patches on surgical drapes, facers on absorbent surgical drapes, etc.) are provided. The hydroentangled composite includes at least two nonwoven webs hydroentangled together. The hydroentangled composite may have a three-dimensional structure. Additionally, the at least two nonwoven webs may have different bonding levels and/or lint levels.

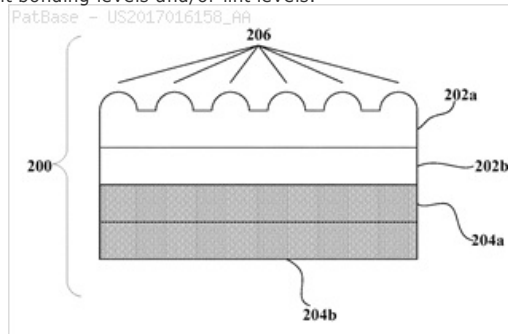
Classifications:

International (IPC 8-9): A61F13/00 B32B5/02 B32B5/26 D04H1/46 D04H1/492 D04H1/495 D04H1/498 D04H13/00 D04H3/007 D04H3/011 D04H3/147 D04H3/16 D06M23/16 (Advanced/Invention)

International (IPC 1-7): A61F13/00 B32B5/02 B32B5/26 D04H1/46 D04H13/00

CPC: B32B5/022 B32B5/26 D04H1/498 D04H1/492 A61F13/00 B32B5/02 B32B2307/40 B32B2307/50 D04H1/485 D04H3/14 B32B3/30 B32B5/06 B32B5/08 B32B7/12 B32B37/20 B32B2250/20 B32B2262/0253 B32B2262/0276 B32B2262/12 B32B2262/14 B32B2305/20 B32B2307/4023 B32B2307/54 B32B2307/554 B32B2307/718 B32B2307/726 B32B2307/728 B32B2307/75 B32B2310/0409 B32B2432/00 B32B2555/02 B32B7/05

US: 442/401



Family:

Publication number	Publication date	Application number	Application date
AU2016291657 AA	20180118	AU20160291657	20160715
BR112018000662 A2	20180918	BR20181100662	20160715
CA2990701 AA	20171221	CA20162990701	20160715
CL2018000074 A1	20180713	CL20180000074	20180109
CN107847355 A	20180327	CN201680041639	20160715
CO20180001250 A2	20180430	CO20180001250	20180206
EP3322391 A1	20180523	EP20160741814	20160715
IN201737046968 A	20180824	IN201737046968	20171228
JP2018520275 T2	20180726	JP20180501227T	20160715
MX2018000378 A1	20180314	MX20180000378	20160715
PE14852018 A1	20180918	PE20180000041	20160715
US2017016158 AA	20170119	US20160211326	20160715
WO17011740 A1	20170119	WO2016US42476	20160715

Priority:

US20150192698P 20150715 US20160211326 20160715 WO2016US42476 20160715

Probable Assignee: AVINTIV SPECIALTY MATERIALS INC

Assignee(s): (std): AVINTIV SPECIALTY MATERIALS INC ; AVINTIV SPECIALTY MAT INC

Assignee(s): AVINTIV SPECIALTY MATERIAL INC ; BANK OF AMERICA ; BURGESS STEVEN BRIAN ; CREDIT SUISSE CAYMAN ISLANDS BRANCH AG ; HARMON PAUL MICHAEL ; ELLIS DIANNE B ; SNIDER JERRY

Inventor(s): (std): STEVEN BRIAN BURGESS ; JERRY SNIDER ; PAUL MICHAEL HARMON ; DIANNE B ELLIS ; SNIDER JERRY ; ELLIS DIANNE B ; HARMON PAUL MICHAEL ; BURGESS STEVEN BRIAN

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; STIKEMAN ELLIOTT SENCRL SRL LLP; ESTUDIO VILLASECA Y CIA; JUAN PABLO CONCHA DELGADO; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; NAGATA YUTAKA; JOHNSON III JOHN E ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW