

Search history

Search 1: SFT=(package) (Results 1000000)
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Search 4: absorbent tissue paper (Results 309)
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Search 6: 5 and 3 (Results 80508)
Search 7: 6 and 4 (Results 22)
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Title: TISSUE PAPER SYSTEMS

Abstract: A **package** including a **stack** of tissue paper sheets, wherein the **package** includes at least one line of weakness that has an unbroken configuration and a broken configuration and wherein the **package** is configured to be able to be flexed to pull apart the line of weakness when the line of weakness is in the broken configuration to open the **package** to allow a tissue paper sheet in the **stack** to be withdrawn through the open **package**.

Classifications:

International (IPC 8-9): A47K A47K10/42 B65D B65D75/58

B65D83/08 (Advanced/Invention);

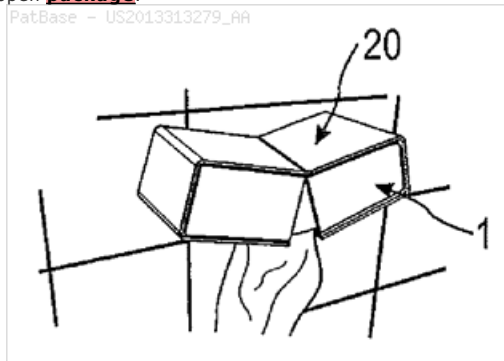
A47K B65D (Subclass/Invention)

CPC: B65D83/0876 A47K10/424 B65D75/585 B65D83/0847

European: B65D75/58E2 B65D83/08D

US: 206/233 221/45

PatBase - US2013313279_AA



Family:

Publication number	Publication date	Application number	Application date
AU2010362447 AA	20120419	AU20100362447	20101011
CN103261050 A	20130821	CN201080070589	20101011
CO6731083 A2	20130815	CO20130117026	20130510
DE602010045393 D1	20171102	DE201060045393T	20101011
EP2627581 A1	20130821	EP20100770761	20101011
EP2627581 B1	20170920	EP20100770761	20101011
HK1187874 A1	20140417	HK20140100962	20140129
IN03030DN2013 A	20141114	IN2013DN03030	20130405
MX2013003995 A1	20130628	MX20130003995	20101011
RU2013120951 A	20141120	RU20130120951	20101011
TN2013000126 A1	20140625	TN20130000126	20130322
US2013313279 AA	20131128	US20100878784	20101011
WO12048724 A1	20120419	WO2010EP65193	20101011
ZA201302224 A	20140129	ZA20130002224	20130325

Priority:

EP20100770761 20101011

WO2010EP65193 20101011

ZA20130002224 20130325

CO20130117026 20130510

Probable Assignee: SCA HYGIENE PRODUCTS AB

Assignee(s): (std): BAGHERZADEH ALI ; DAVIES ELEANOR ; DERIX ELEANOR ; ENGLER BERTOLD ; KIM SINIZ ; SAARVAELI MONICA EVA LI ; THOREN WENCKE AGNETA ; WONG ANDREW ; SCA HYGIENE PROD AB ; SCHMIDT MARCEL ; SUDWORTH JAN CASPAR

Assignee(s): SCA HYGIENE PRODUCTS AB

Inventor(s): (std): BAGHERZADEH ALI ; DAVIES ELEANOR ; DERIX ELEANOR ; ENGLER BERTOLD ; SAARVAELI MONICA EVA LI ; SAARVALI EVA LI ; SAARVALI MONICA EVA LI ; KIM SINIZ ; SCHMIDT MARCEL ; SUDWORTH JAN CASPAR ; SUDWORTH JAS CASPAR ; THOREN WENCKE AGNETA ; THOREN WENCKE AGNETA ; SUDWORTH JAN CASPAR ; WONG ANDREW

Inventor(s): SUDWORTH JAN CASPAR BOX HILL ; WENCKE AGNETA THOREN ; WENCKE AGNETA THOREN ; SINIZ KIM ; MARCEL SCHMIDT ; MONICA EVA LI SAARVAELI ; SAARVALI MONICA EVALI ; EVA LI SAARVALI ; JAS CASPAR SUDWORTH ; ELEANOR DAVIES ; BERTOLD ENGLER ; ALI BAGHERZADEH ; ANDREW WONG

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; LUZ CLEMENCIA DE PAEZ; HOFFMANN EITLE; NTD PATENT AND TRADE MARK AGENCY LTD; SIEGERT GEORG ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 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 PE PG PH PL PT RO RS RU 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

Title: TISSUE PAPER SYSTEMS

Abstract: A **stack** of interfolded tissue paper sheets, wherein the interfolding pattern is such that each sheet is folded at least once to provide leading and trailing panels with respect to a sheet withdrawal direction, to define a **stack comprising** an overlapping region where adjacent sheets in the **stack** overlap and non-overlapping regions of the **stack** on opposed sides of the overlapping region wherein adjacent sheets of the **stack** do not overlap.

Classifications:

International (IPC 8-9): A47K A47K10/42 B23B3/26 B23B3/28

B32B3/02 B32B3/26 B32B3/28 B65D B65D75/58

B65D83/08 (Advanced/Invention);

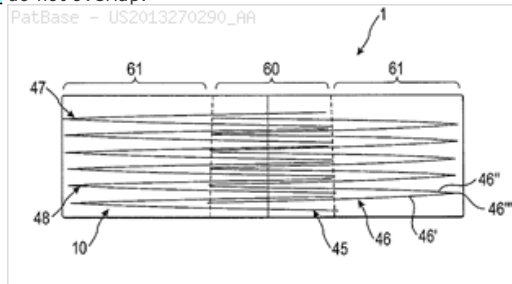
A47K B65D (Subclass/Invention)

CPC: B65D83/08 A47K10/42 B32B3/02 B32B3/266 B32B3/28

A47K10/424 B65D75/585 B65D83/0894 Y10T428/15 Y10T428/24628

European: A47K10/42C B65D75/58E2 B65D83/08H

US: 221/48 428/174 428/43



Family:

Publication number	Publication date	Application number	Application date
AU2010362448 AA	20130502	AU20100362448	20101011
CN103249654 A	20130814	CN201080070537	20101011
DE602010045389 D1	20171026	DE201060045389T	20101011
EP2627586 A1	20130821	EP20100766027	20101011
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HK1186443 A1	20140314	HK20130113911	20131213
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MX2013003948 A1	20130605	MX20130003948	20101011
RU2013121579 A	20141120	RU20130121579	20101011
TN2013000127 A1	20140625	TN20130000127	20130322
US2013270290 AA	20131017	US20100878800	20101011
WO12048725 A1	20120419	WO2010EP65194	20101011
ZA201302090 A	20140129	ZA20130002090	20130320

Priority:

EP20100766027 20101011

WO2010EP65194 20101011

ZA20130002090 20130320

Probable Assignee: SCA HYGIENE PRODUCTS AB

Assignee(s): (std): ENGLER BERTOLD ; SCA HYGIENE PROD AB ; SCHMIDT MARCEL ; VAN KRIEKEN BRAM ; WONG ANDREW

Assignee(s): SCA HYGIENE PRODUCTS AB

Inventor(s): (std): ENGLER BERTOLD ; KRIEKEN BRAM VAN ; SCHMIDT MARCEL ; VAN KRIEKEN BRAM ; WONG ANDREW ; A WENG

Inventor(s): MARCEL SCHMIDT ; ANDREW WONG ; BERTOLD ENGLER ; BRAM VAN KRIEKEN

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; HOFFMANN EITLE; NTD PATENT AND TRADE MARK AGENCY LTD; SIEGERT GEORG ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 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 PE PG PH PL PT RO RS RU 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

Title: TISSUE PAPER SYSTEMS

Abstract: A moist dispenser, the moist sheet dispenser including a receptacle housing for receiving a **stack** of moist sheets, the receptacle housing including a dispensing opening through which a sheet can be withdrawn from the **stack**, the dispenser including a lid that has an open position to provide access to the dispensing opening so that a sheet can be withdrawn from the **stack** through the dispensing opening and a closed position covering the dispensing opening, wherein the lid defines a periphery and the receptacle housing defines a periphery and the peripheries of the lid and the receptacle housing meet when the lid is in the closed position.

Classifications:

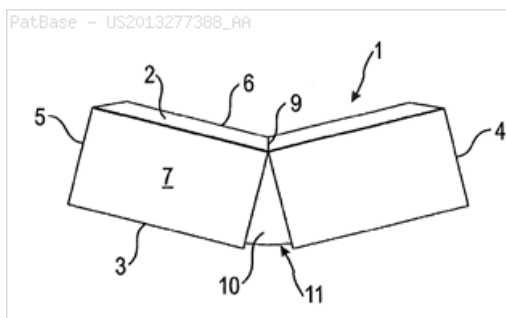
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B65D83/08 (Advanced/Invention)

CPC: A47K10/42 A47K10/424 B65D5/5425 B65D83/0805

European: A47K10/42C B65D5/54B3B B65D83/08B

US: 221/306



Family:

Publication number	Publication date	Application number	Application date
AU2010362449 AA	20130502	AU20100362449	20101011
CN103249342 A	20130814	CN201080070587	20101011
CO6710950 A2	20130715	CO20130117018	20130510
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CO6720970 A2	20130731	CO20130117019	20130510
EP2627231 A1	20130821	EP20100768001	20101011
HK1186943 A1	20140328	HK20130114434	20131231
IN02968DN2013 A	20160401	IN2013DN02968	20130404
MX2013003950 A1	20130605	MX20130003950	20101011
RU2013121580 A	20141120	RU20130121580	20101011
TN2013000124 A1	20140625	TN20130000124	20130322
US2013277388 AA	20131024	US20100878899	20101011
WO12048726 A1	20120419	WO2010EP65195	20101011

Priority:

WO2010EP65194 20101011 WO2010EP65195 20101011 CO20130117019 20130510

Probable Assignee: SCA HYGIENE PRODUCTS AB

Assignee(s): (std): BREMENKAMP RALPH ; ENGLER BERTOLD ; SCA HYGIENE PROD AB ; SCHMIDT MARCEL

Assignee(s): SCA HYGIENE PRODUCTS AB

Inventor(s): (std): BREMENKAMP RALPH ; ENGLER BERTOLD ; SCHMIDT MARCEL

Inventor(s): BERTOLD ENGLER ; RALPH BREMENKAMP ; MARCEL SCHMIDT ; BRAM VAN KRIEKER ; ANDREW WONG

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; LUZ CLEMENCIA DE PAEZ; HOFFMANN EITLE; NTD PATENT AND TRADE MARK AGENCY LTD; SIEGERT GEORG ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 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 PE PG PH PL PT RO RS RU 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

Title: TISSUE PAPER SYSTEMS

Abstract: A system including a dry **absorbent tissue paper** sheet dispenser having a dispensing opening through which dry tissue paper sheets can be withdrawn and a moist sheet dispenser having a dispensing opening through which moist sheets can be withdrawn, wherein one of the dry tissue paper dispenser and the moist sheet dispenser is configured to sit atop the other so that the dispensing openings face in opposing directions in a combined configuration, and wherein the dry and moist sheet dispensers have cooperating interfacing surfaces when they are in the combined configuration that resist movement of the moist sheet dispenser with respect to the dry tissue paper dispenser in a first direction perpendicular to a sheet withdrawal direction of the dry tissue paper dispenser and the moist dispenser.

Classifications:

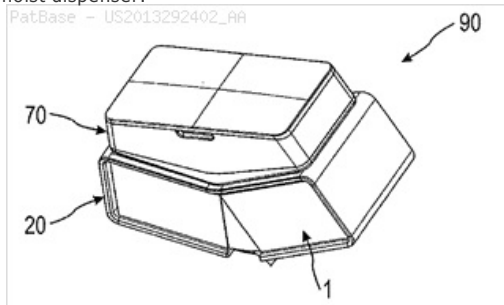
International (IPC 8-9): A47K A47K10/42 B65D

B65D83/08 (Advanced/Invention)

CPC: A47K10/42 A47K10/424 B65D83/0805 B65D83/0894

European: A47K10/42C B65D83/08B B65D83/08H

US: 221/35



Family:

Publication number	Publication date	Application number	Application date
AU2010362450 AA	20120419	AU20100362450	20101011
CN103249341 A	20130814	CN201080070536	20101011
CO6720971 A2	20130731	CO20130117025	20130510
DE602010029544 D1	20160128	DE201060029544T	20101011
EP2627230 A1	20130821	EP20100766028	20101011
EP2627230 B1	20151216	EP20100766028	20101011
HK1186365 A1	20140314	HK20130113912	20131213
IN02902DN2013 A	20141114	IN2013DN02902	20130402
MX2013003991 A1	20130628	MX20130003991	20101011
RU2013120941 A	20141120	RU20130120941	20101011
TN2013000123 A1	20140625	TN20130000123	20130322
US2013292402 AA	20131107	US20100878803	20101011
WO12048727 A1	20120419	WO2010EP65197	20101011

Priority:

EP20100766028 20101011 WO2010EP65197 20101011 CO20130117025 20130510

Probable Assignee: SCA HYGIENE PRODUCTS AB

Assignee(s): (std): SCHMIDT MARCEL ; THOREN WENCKE AGNETA ; SAARVAELI MONICA EVA LI ; POLINNA JULIA ; SUDWORTH JAN CASPAR ; LARSSON BJOERN ; SCA HYGIENE PROD AB ; WONG ANDREW ; BAGHERZADEH ALI ; BREMENKAMP RALPH ; DAVIES ELEANOR ; DERIX ELEANOR

Assignee(s): SCA HYGIENE PRODUCTS AB

Inventor(s): (std): SCHMIDT MARCEL ; BREMENKAMP RALPH ; BAGHERZADEH ALI ; THOREN WENCKE AGNETA ; WONG ANDREW ; SAARVAELI MONICA EVA LI ; POLINNA JULIA ; SUDWORTH JAN CASPAR ; LARSSON BJOERN ; DAVIES ELEANOR ; SAARVALI MONICA EVA LI ; LARSSON BJORN ; THOREN WENCKE AGNETA ; SUDWORTH JAS CASPAR ; SAARVALI EVA LI ; A WENG ; DERIX ELEANOR

Inventor(s): ALI BAGHERZADEH ; MONICA EVA LI SAARVAELI ; BJOERN LARSSON ; ELEANOR DAVIES ; RALPH BREMENKAMP ; MARCEL SCHMIDT ; JULIA POLINNA ; JAN CASPAR SUDWORTH ; ANDREW WONG ; WENCKE AGNETA THOREN ; WENCKE AGNETA THOREN ; EVA LI SAARVALI ; JAS CASPAR SUDWORTH ; BJORN LARSSON

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; LUZ CLEMENCIA DE PAEZ; HOFFMANN EITLE PATENT U RECHTSANWAELTE PARTMBB; HOFFMANN EITLE; NTD PATENT AND TRADE MARK AGENCY LTD; SIEGERT GEORG ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 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 PE PG PH PL PT RO RS RU 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

Title: TISSUE PAPER SYSTEMS

Abstract: A container for containing a **stack** of interfolded tissue paper sheets, wherein the container includes a dispensing opening and lips so that a sheet passes through the dispensing opening when being withdrawn from the **stack** and dispensed from the sheet, wherein the lips are in an overlapping state in a direction of withdrawal of the sheets, wherein the lips are configured to be opened into a less overlapping or non-overlapping state by the sheet as the sheet moves therethrough and are configured to return to the overlapping state after withdrawal of the sheet.

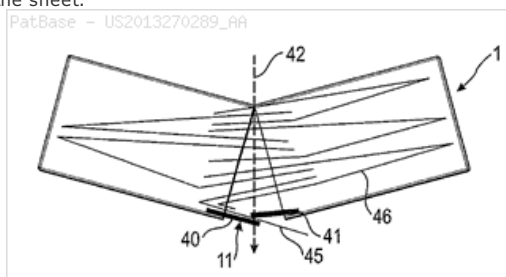
Classifications:

International (IPC 8-9): A47K10/32 A47K10/42 B65D B65D83/08 (Advanced/Invention)

CPC: B65D83/08 A47K10/421 A47K10/424 A47K2010/3266 B65D83/0805 B65D83/0894

European: A47K10/42B A47K10/42C B65D83/08B B65D83/08H K47K10/32W

US: 221/48



Family:

Publication number	Publication date	Application number	Application date
AU2010362454 AA	20120419	AU20100362454	20101011
CN103249655 A	20130814	CN201080070542	20101011
CO6720969 A2	20130731	CO20130117011	20130510
DE602010038647 D1	20170119	DE201060038647T	20101011
EP2627587 A1	20130821	EP20100768003	20101011
EP2627587 B1	20161207	EP20100768003	20101011
HK1186444 A1	20140314	HK20130113913	20131213
IN02960DN2013 A	20141114	IN2013DN02960	20130404
MX2013003990 A1	20130628	MX20130003990	20101011
RU2013121581 A	20141120	RU20130121581	20101011
TN2013000125 A1	20140625	TN20130000125	20130322
TR201702009 T4	20170221	TR20170002009T	20101011
US2013270289 AA	20131017	US20100878795	20101011
WO12048731 A1	20120419	WO2010EP65219	20101011

Priority:

EP20100768003 20101011 WO2010EP65219 20101011 CO20130117011 20130510

Probable Assignee: SCA HYGIENE PRODUCTS AB

Assignee(s): (std): SCHMIDT MARCEL ; SUDWORTH JAN CASPAR ; VAN KRIEKEN BRAM ; WONG ANDREW ; ENGLER BERTOLD ; SCA HYGIENE PROD AB

Assignee(s): SCA HYGIENE PRODUCTS AB

Inventor(s): (std): WONG ANDREW ; VAN KRIEKEN BRAM ; ENGLER BERTOLD ; SCHMIDT MARCEL ; SUDWORTH JAN CASPAR ; KRIEKEN BRAM VAN ; SHCMIDT MARCEL ; SUDWORTH JAS CASPAR ; VAN KRIEKER BRAM ; A WENG

Inventor(s): JAN CASPAR SUDWORTH ; BRAM VAN KRIEKEN ; BERTOLD ENGLER ; MARCEL SCHMIDT ; ANDREW WONG ; BRAM VAN KRIEKER ; JAS CASPAR SUDWORTH ; MARCEL SHCMIDT

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; LUZ CLEMENCIA DE PAEZ; HOFFMANN EITL PATENT U RECHTSANWAELTE PARTMBB; HOFFMANN EITL; NTD PATENT AND TRADE MARK AGENCY LTD; TUGBA GUENDEMIR; SPILGIES JAN HENDRIK ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 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 PE PG PH PL PT RO RS RU 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

Title: MICROPOROUS STRUCTURE WITH LAYERED INTERSTITIAL SURFACE TREATMENT, AND METHOD AND APPARATUS FOR PREPARATION THEREOF

Abstract: A microporous structure with layered interstitial surface treatments, and method and apparatus for preparation thereof. The structure is prepared by sequentially subjecting a uniformly surface-treated structure (10a) to atomic oxygen treatment to remove an outer layer (16) of surface treatment to a generally uniform depth, and then surface treating the so exposed layer with another surface treating agent. The atomic oxygen/surface treatment steps may optionally be repeated, each successive time to a lesser depth, to produce a microporous structure having multilayered surface treatments. The apparatus (200) employs at least one side arm (228) from a main atomic oxygen-containing chamber (202). The side arm (228) has characteristic relaxation times such that a uniform atomic oxygen dose rate is delivered to a specimen (239) positioned transversely in the side arm (228) spaced from the main gas chamber (202).

Classifications:

International (IPC 8-9): A61L27/28 A61L33/00 B01D15/08 B01D39/16 B01D67/00 B01J20/08 B01J20/10 B01J20/28 B01J20/32 B01J37/14 B29C59/14 C08J9/36 C12M1/24 C12M3/04 C12M3/06 C12N5/00 C12P21/00 G01N30/52 G01N33/543 G01N33/545 (Advanced/Invention);

G01N30/52 (Advanced/Non-invention);

A61L27/00 A61L33/00 B01D15/08 B01D67/00 B01J20/06 B01J20/10 B01J20/28 B01J20/30 B29C59/00 C08J9/00 C12M1/24 C12M3/04 C12M3/06 C12N5/00 C12P21/00 G01N33/543 G01N33/544 (Core/Invention); G01N30/00 (Core/Non-invention)

International (IPC 1-7): B01D15/08 B01D67/00 B01J15/00 B01J19/08 B01J29/00 B05D3/06 B05D3/14 C08J7/12 C08J9/22 C08J9/36 C08J9/40 C08J9/42 C12M1/12 C12M3/06 C12N11/08 C12N5/00 G01N33/535 G01N33/543 G01N33/545 H05H1/46 **CPC:** Y10S530/815 Y10S530/816 B01D15/3809 B01J20/261 B01J20/265 B01J20/285 B01J20/3085 B01J20/287 B01J20/289 B01J20/321 B01J20/3278 B01J2220/82 B01J20/28052 B01J20/28085 B01J2219/00497 B01J20/29 B01J20/286 B01J20/3217 B01J20/3248 B01J20/3268 B01J20/3272 B01J20/26 B01J20/262 B01J20/28014 B01J20/3212 B01J20/3246 B01J20/3259 B01J20/3263 B01J20/3274 B01D39/1692 B01J20/28033 B01J20/28042 B01J20/28078 B01J20/28069 B01J2219/0894 B01J2220/54 B01J20/3242 B29K2023/00 B29K2105/04 B29K2105/041 C08J9/36 C08J2205/05 G01N33/54306 G01N30/482 G01N33/54393 B01D2323/38 Y10T428/2993 B01D67/009 A61L27/28 A61L33/0076 A61L33/0094 B01D15/08 B01D67/0093 B01J20/08 B01J20/103 B01J37/14 B29C59/14 B29L2031/755 C12N5/0068 C12N2533/30 C12P21/00 G01N33/545 G01N2030/525 G01N2030/528 Y10T428/249978 Y10T428/249979 Y10T428/8305 B01J20/3204 B01J20/3289 B01J20/3293 B01J20/328 B01J20/3285 B01J20/3291 B01J20/3225 B01J20/3257 B01J20/3219

European: A61L27/28 A61L33/00R A61L33/00T B01D15/08 B01D15/38A1 B01D39/16K B01D67/00J16 B01D67/00J18 B01D67/00R16 B01D67/00R18 B01J20/08 B01J20/10B B01J20/28D24 B01J20/28D28 B01J20/28D40 B01J20/28F12 B01J20/28F12F B01J20/28F8 B01J20/32 B01J20/32F8 B01J37/14 B29C59/14 C08J9/36 C12N5/00S C12P21/00 G01N30/48A G01N33/543B G01N33/543M G01N33/545 L01J219/00C2L L01J219/08P L01J220/54 L29K105/04 L29K105/04B L29K23/00 L29L31/755 M08J205/050 M12N533/30 S01N30/52C1 S01N30/52C3

US: 156/345 156/643 156/646 156/650 156/662 156/667 210/198.2 210/500.27 210/500.36 210/502.1 210/635 216/67 216/76 216/79 422/129 422/186.04 422/186.05 422/186.15 427/243 427/244 427/245 427/269 427/270 427/287 427/307 427/377 427/535 427/536 427/539 427/540 427/561 427/562 427/569 427/596 428/315.5 428/315.7 428/404 428/543 435/180 435/181 435/240.23 435/240.243 435/283.1 435/297.1 435/297.5 435/299.1 435/299.2 435/304.1 435/304.2 435/304.3 435/401 435/402 435/7.92 436/531 436/532 502/258 502/259 502/260 502/332 502/335 502/336 502/401 502/402 521/143 521/146 521/149 521/150 521/27 521/53 521/59 521/84.1 525/54.1 530/413 530/417 530/815 530/816

Family:

Publication number	Publication date	Application number	Application date
AU199740654 A1	19980818	AU19970040654	19970813
AU199859289 A1	19980818	AU19980059289	19980127
US5141806 A	19920825	US19890429739	19891031
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US5369012 A	19941129	US19920857901	19920326
US5798261 A	19980825	US19940254361	19940603
US5935845 A	19990810	US19970903281	19970709
US5939314 A	19990817	US19970903280	19970709
US6022902 A	20000208	US19970858219	19970514
US6074871 A	20000613	US19970903278	19970709
US6818259 BA	20041116	US19980166457	19981123
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WO9832790 A1	19980730	WO1998US01278	19980127

Priority:

US19890429739	19891031	US19920857901	19920326	US19920894505	19920602
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US19970034873P	19970127	US19970858219	19970514	US19970903281	19970709
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US19970054503P	19970801	US19970054584P	19970801	WO1997US14269	19970813
WO1998US01278	19980127	US19980166457	19981123		

Probable Assignee: NATIONAL AERONAUTICS AND SPACE ADMINISTRATION US GOVERNMENT REPRESENTED BY ADMINISTRATOR OF AS

Assignee(s): (std): FLOWGENIX CORP ; NASA ; KOONTZ STEVEN L ; DEVIVAR RODRIGO V ; FABRICANT JILL D ; GOLDKNOPF IRA L

Assignee(s): NATIONAL AERONAUTICS AND SPACE ADMINISTRATION US G ; NATIONAL AERONAUTICS AND SPACE ADMINISTRATION U AS ; NATIONAL AERO AND SPACE ADMINISTRATION ; AS US GOV ; ADMINISTRATOR OF NATIONAL AERONAUTICS AND SPACE ADMINISTRATION US GOV AS ; ADMINISTRATOR OF NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AS US GOV ; NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AS US GOV ; UNITED STATES OF AMERICA REPRESENTED ADMINISTRATOR ; THEADMINISTRATOR NATIONAL AERONAUTICS AND SPACE AD ; UNITED STATES OF AMERICA REPRESENTED AD AS ; THEADMINISTRATOR NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AS US GOV ; UNITED STATES OF AMERICA REPRESENTED ADMINISTRATOR OF NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AS ; NATIONAL AERONAUTICS AND SPACE ADMINISTRATION US GOVERNMENT REPRESENTED BY ADMINISTRATOR OF AS ; ADM AS US GOV ; ADMINISTRATO AS US GOV ; ADMINISTRATO US GOV AS ; ADMINISTRATOR OF NATIONAL AERONAUTICS AND SPACE AD

Inventor(s): (std): DEVIVAR RODRIGO V ; FABRICANT JILL D ; GOLDKNOPF IRA L ; KOONTZ STEVEN L ; SPAULDING GLENN F



Inventor(s): STEVEN L KOONTZ ; RODRIGO V DEVIVAR ; JILL D FABRICANT ; IRA L GOLDKNOPF

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

Title: METHOD OF DRYING A PAPER WEB HAVING BOTH BULK AND SMOOTHNESS.

Abstract: ABSTRACT A paper web and method of making the paper web are disclosed. In one embodiment the paper web includes a continuous relatively thinner region and a plurality of discrete relatively thicker regions. The relatively thicker regions are disposed in the plane of the relatively thinner region. The paper web can have a relatively patterned face and a relatively smooth face. The paper structures can be dried relatively quickly and efficiently, and can provide enhanced absorbency and bulk density while having a relatively smooth face.

Classifications:

International (IPC 8-9): D21F11/00 D21F7/08

D21H15/02 (Advanced/Invention);

D21F11/00 D21F7/08 (Advanced/Non-invention);

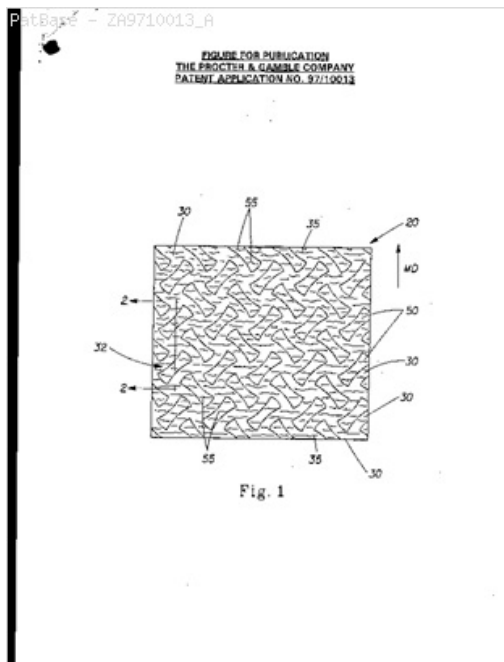
D21F11/00 D21F7/08 (Core/Invention);

D21H15/02 (Core/Non-invention)

International (IPC 1-7): B31F D21F D21F11/00 D21F7/08 D21H15/02

CPC: D21F11/006

European: D21F11/00E



Family:

Publication number	Publication date	Application number	Application date
AT287005 E	20050115	AT19970948257T	19971114
AU199854354 A1	19980603	AU19980054354	19971114
BRPI9713036 A	20000411	BR1997PI13036	19971114
CA2271876 AA	19990511	CA19972271876	19971114
CA2271876 C	20041026	CA19972271876	19971114
DE69732242 D1	20050217	DE19976032242	19971114
DE69732242 T2	20060504	DE19976032242T	19971114
EP0938610 A1	19990901	EP19970948257	19971114
EP0938610 B1	20050112	EP19970948257	19971114
JP2001504169 T2	20010327	JP19980522783T	19971114
KR20000053230 A	20000825	KR19997004207	19971114
TH36465 A	19991223	TH19971004620	19971112
TW376415 B	19991211	TW19970116648	19971107
WO9821404 A1	19980522	WO1997US20643	19971114
ZA9710013 A	19980525	ZA19970010013	19971106

Priority:

US19960748768 19961114 WO1997US20643 19971114

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE ; THE PROCTER AND GAMBLE COMPANY

Assignee(s): THE PROCTER AND GAMBLE COMPANY CINCINNATI ; THE PROCTER AND GAMBLE COMPANYUS ; PROCTER AND GAMBLE CO ; PHAN DEAN VAN

Inventor(s): (std): PHAN DEAN VAN ; PHAN VAN ; DEAN VAN PHAN

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SIM AND MCBURNEY

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

Title: MULTI-PLY PAPER PRODUCT WITH MOISTURE STRIKE THROUGH RESISTANCE AND METHOD OF MAKING THE SAME

Abstract: A paper product with absorbency and moisture strike through resistance is disclosed. More particularly, a multi-ply paper product with improved strike through resistance is disclosed, wherein at least one ply is a wetting resistant ply comprising at least one wetting resistant compound and at least one ply is an absorbent ply possessing greater absorbency than the wetting resistant ply. In addition, a two-ply paper napkin with improved moisture strike through resistance is disclosed, wherein the wetting resistant ply comprises alkyl ketene dimer and the two plies are separately microembossed, glue laminated together in a point to point configuration, and macroembossed with coin edging. Furthermore, a multi-ply paper product with improved strike through resistance is disclosed, wherein a first ply comprises at least one wetting resistant compound and a second ply possesses greater absorbency than the first ply. Methods of making paper products with absorbency and moisture strike through resistance are also described.

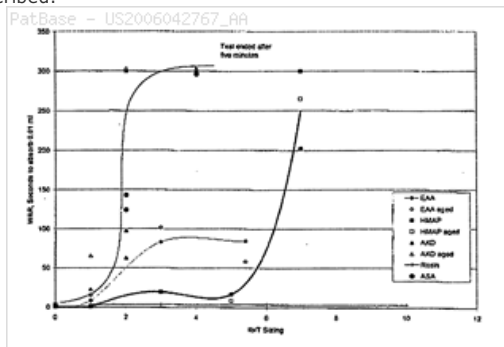
Classifications:

International (IPC 8-9): B31F1/07 B32B29/00 B32B3/00 B32B7/12 D21F11/00 D21H D21H21/16 D21H21/20 D21H27/02 D21H27/30 D21H27/32 D21H27/38 (Advanced/Invention); B31F1/00 B32B29/00 B32B3/00 B32B7/12 D21F11/00 D21H21/14 D21H27/02 D21H27/30 (Core/Invention); D21H (Subclass/Invention)

CPC: Y10T156/10 Y10T156/1023 Y10T156/1039 Y10T428/24479 Y10T428/24612 B32B29/06 B32B29/00 B32B29/005 B32B2250/20 B32B2255/12 B32B2255/26 B32B2307/726 B32B2307/7265 B32B2307/73 B32B2555/02 D21H17/11 D21H17/16 D21H17/17 D21H17/62 D21H21/16 D21H27/02 D21H27/30

European: B32B29/00 B32B29/00B2 B32B29/06 D21H27/30 L32B250/20 L32B255/12 L32B255/26 L32B307/726 L32B307/726B L32B307/730 L32B555/02 N21H17/11 N21H17/16 N21H17/17 N21H17/62 N21H21/16 N21H27/02

US: 156/209 156/209S 156/219 156/60 156/60S 162/109 162/117 162/125 162/125S 162/127 162/127S 162/132 162/158 162/158S 162/164.1 162/164.3 162/164.300S 162/166 162/166S 162/168.1 162/168.3 162/172 162/175 162/175S 162/178 162/178S 162/179 162/179S 162/180 428/156 428/172



Family:

Publication number	Publication date	Application number	Application date
CA2517552 AA	20060301	CA20052517552	20050830
CA2517552 C	20161011	CA20052517552	20050830
CA2936264 AA	20060301	CA20052936264	20050830
DE602005041575 D1	20131219	DE200560041575T	20050901
EP1632604 A1	20060308	EP20050019027	20050901
EP1632604 B1	20131023	EP20050019027	20050901
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HK1083114 A1	20140207	HK20060104899	20060425
HK1083114 A1	20060623	HK20060104899	20060425
HK1083114 A3	20060623	HK20060104899	20060425
HK1083114 B	20140207	HK20060104899	20060425
US2006042767 AA	20060302	US20040995457	20041122
US2010116451 AA	20100513	US20090618124	20091113
US2010319864 AA	20101223	US20100872763	20100831
US7799169 BB	20100921	US20040995457	20041122
US8025764 BB	20110927	US20100872763	20100831
US8216424 BB	20120710	US20090618124	20091113

Priority:

US20040606674P 20040901	US20040611671P 20040920	US20040995457 20041122
CA20052517552 20050830	EP20050019027 20050901	US20090618124 20091113
US20100872763 20100831	CA20162517552 20160721	

Probable Assignee: GPCP IP HOLDINGS LLC

Assignee(s): (std): FORT JAMES CORP ; GEORGIA PACIFIC CONSUMER PRODUCTS LP ; GEORGIA PACIFIC CONSUMER PROD ; BHAT DINESH M ; SUMNICHT DANIEL W

Assignee(s): GEORGIA PACIFIC CONSUMER PRODUCTS LP ATLANTA ; GPCP IP HOLDINGS LLC ; CITICORP NORTH AMERICA INC ; COLOR BOX LLC DELAWARE LIABILITY CO LTD ; DIXIE CONSUMER PRODUCTS LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC CHEMICALS LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC CONSUMER PRODUCTS LP DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC CORRUGATED LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC GYPSUM LLC DELAWARE LIABILITY CO LTD ; GEORGIA PACIFIC LLC DELAWARE PARTNERSHIP LTD ; GEORGIA PACIFIC WOOD PRODUCTS LLC DELAWARE LIABILITY CO LTD ; GP CELLULOSE GMBH ZUG SWITZERLAND LIABILITY CO LTD

Inventor(s): (std): BHAT DINESH M ; SUMNICHT DANIEL W

Inventor(s): BHAT DINESH ; SUMNICHT DANIEL ; BHAT DINESH M NEENAH ; SUMNICHT DANIEL W GREEN BAY

Agent(s): OGILVY RENAULT LLP SENCRL SRL ; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL ; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAUESSER ; DE ELZABURU ALBERTO ; MARKS AND CLERK ; FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP ; GEORGIA-PACIFIC LLC ; GEORGIA PACIFIC LLC ; LAURA L

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

Title: Drying for patterned paper webs

Abstract: A paper web and method of making the paper web are disclosed. In one embodiment the paper web includes a continuous relatively thinner region and a plurality of discrete relatively thicker regions. The relatively thicker regions are disposed in the plane of the relatively thinner region. The paper web can have a relatively patterned face and a relatively smooth face. The paper structures can be dried relatively quickly and efficiently, and can provide enhanced absorbency and bulk density while having a relatively smooth face.

Classifications:

International (IPC 8-9): D21F1/44 D21F11/00

D21F7/08 (Advanced/Invention);

D21F11/00 D21F7/08 (Advanced/Non-invention);

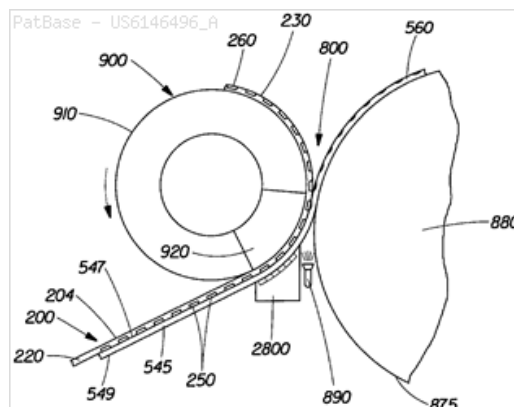
D21F11/00 D21F7/08 (Core/Invention)

International (IPC 1-7): B31F D21F D21F1/44 D21F11/00 D21F7/08

CPC: D21F11/006

European: D21F11/00E

US: 162/113 162/117



Family:

Publication number	Publication date	Application number	Application date
AR010601 AA	20000628	AR1997P105343	19971114
AT239131 E	20030515	AT19970947482T	19971114
AU199852551 A1	19980603	AU19980052551	19971114
AU718341 B2	20000413	AU19980052551	19971114
BRPI9713048 A	20000404	BR1997PI13048	19971114
CA2271640 AA	19990511	CA19972271640	19971114
CA2271640 C	20050412	CA19972271640	19971114
CL1997002462 A1	19980710	CL19970002462	19971114
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DE69721555 T2	20040318	DE19976021555T	19971114
EP0938608 A1	19990901	EP19970947482	19971114
EP0938608 B1	20030502	EP19970947482	19971114
JP2001504170 T2	20010327	JP19980522789T	19971114
KR20000053231 A	20000825	KR19997004208	19971114
PE19299 A1	19990317	PE19970001026	19971114
TH36250 A	19991215	TH19971004619	19971112
TW387957 B	20000421	TW19970116649	19971107
US6146496 A	20001114	US19960748870	19961114
WO9821405 A1	19980522	WO1997US20649	19971114
ZA9710014 A	19980525	ZA19970010014	19971106

Priority:

US19960748870 19961114 WO1997US20649 19971114

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY

Assignee(s): THE PROCTER AND GAMBLE COMPANY CINCINNATI ; PHAN DEAN VAN

Inventor(s): (std): DEAN VAN PHAN ; PHAN VAN ; PHAN DEAN VAN

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; DIMOCK STRATTON LLP; WILSON LUE LLP; HARNECKER

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

Title: PAPER WEB HAVING A RELATIVELY THINNER CONTINUOUS NETWORK REGION AND DISCRETE RELATIVELY THICKER REGIONS IN THE PLANE OF THE CONTINUOUS NETWORK REGION.

Abstract: ABSTRACT A paper web and method of making the paper web are disclosed. In one embodiment the paper web includes a continuous relatively thinner region and a plurality of discrete relatively thicker regions. The relatively thicker regions are disposed in the plane of the relatively thinner region. The paper web can have a relatively patterned face and a relatively smooth face. The paper structures can be dried relatively quickly and efficiently, and can provide enhanced absorbency and bulk density while having a relatively smooth face.

Classifications:

International (IPC 8-9): A47K10/16 D21F11/00 D21F11/14

D21H15/02 D21H27/00 (Advanced/Invention);

D21F11/00 D21H27/00 (Advanced/Non-invention);

A47K10/00 D21F11/00 D21H27/00 (Core/Invention);

D21H15/02 (Core/Non-invention)

International (IPC 1-7): A47K A47K10/16 B32B D21F D21F11/00

D21H15/02 D21H27/00

CPC: D21F11/006

European: D21F11/00E

PatBase - ZA9710010_A

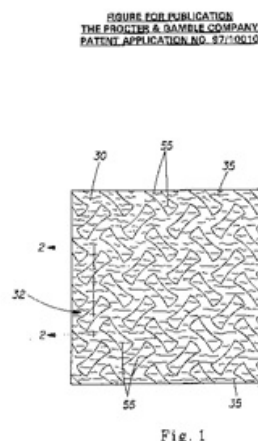


Fig. 1

Family:

Publication number	Publication date	Application number	Application date
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AT235601 E	20030415	AT19970947514T	19971114
AU199852576 A1	19980603	AU19980052576	19971114
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CA2271874 AA	19990511	CA19972271874	19971114
CL1997002460 A1	19980807	CL19970002460	19971114
CN1117190 C	20030806	CN19971081201	19971114
CN1242812 A	20000126	CN19971081201	19971114
CO4930316 A1	20000627	CO19970067075	19971114
CZ9901644 A3	19991215	CZ19990001644	19971114
DE69720239 D1	20030430	DE19976020239	19971114
DE69720239 T2	20031211	DE19976020239T	19971114
DK0938609 T3	20030714	DK19970947514T	19971114
EG21070 A	20001031	EG19970001202	19971113
EP0938609 A1	19990901	EP19970947514	19971114
EP0938609 B1	20030326	EP19970947514	19971114
ES2189983 T3	20030716	ES19970947514T	19971114
HK1023160 A1	20040116	HK20000101251	20000229
ID27944 A	20010503	ID19990000347D	19971114
IL129795 A0	20000229	IL19970129795	19971114
JP2001504171 T2	20010327	JP19980522850T	19971114
JP4093591 B2	20080604	JP19980522850	19971114
KR100336800 B1	20020516	KR19997004209	19990512
KR20000053232 A	20000825	KR19997004209	19971114
MY115254 A	20030430	MY19970005359	19971111
NO992325 A	19990629	NO19990002325	19990512
NO992325 A0	19990512	NO19990002325	19990512
NO992325 L	19990629	NO19990002325	19990512
PE19399 A1	19990317	PE19970001024	19971114
PT938609 T	20030731	PT19970947514T	19971114
TH36466 A	19991223	TH19971004621	19971112
TR9901060 T2	19990721	TR19990001060T	19971114
TR9901060 T2	19990721	TR19970001060T	19971114
TW364028 B	19990711	TW19970116590	19971107
WO9821406 A1	19980522	WO1997US20814	19971114
ZA9710010 A	19980525	ZA19970010010	19971106

Priority:

US19960748871 19961114 WO1997US20814 19971114

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE
Assignee(s): PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE COMPANY THE ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE COMPANY CINCINNATI ; THE PROCTOR AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE COMPANYUS ; PHAN DEAN VAN
Inventor(s): (std): PHAN D V ; PHAN DEAN V ; VAN PHAN DEAN ; PHAN VAN DEAN ; PHAN VAN ; PHAN DEAN VAN
Inventor(s): DEAN VAN PHAN ; D V PHAN ; DEAN V PHAN ; DV PHAN
Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; DIMOCK STRATTON LLP; HARNECKER; CARLOS REINALDO OLARTE GARCIA
Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TG TJ TM TR TT UA UG UZ VN YU ZW

Title: WOUND DRESSINGS **COMPRISING** HYDRATED HYDROGELS AND ENZYMES

Abstract: A skin dressing, particularly a wound dressing, comprises oxidoreductase enzyme and, optionally, peroxidase enzyme, wherein the enzyme(s) are present in hydrated condition, e.g. being present in one or more hydrated hydrogels. The dressing is used by being located on the skin of a human or animal e.g. over a wound. The oxidoreductase enzyme catalyses a reaction that produces hydrogen peroxide from an appropriate substrate, the substrate either being naturally present in body fluids and/or being supplied separately and/or being incorporated into the dressing. The currently preferred oxidoreductase enzyme is glucose oxidase. The catalyses reaction of beta-D-glucose substrate to give hydrogen peroxide and gluconic acid. A mixture of oxidoreductase enzyme can undergo reaction (optionally catalysed by the peroxidase enzyme) to produce a variety of species including reactive oxygen intermediates that have antimicrobial properties and that can therefore assist in promoting wound healing.

Classifications:

International (IPC 8-9): A61F13/00 A61F13/15 A61K38/44

A61K47/30 A61K47/38 A61K9/66 A61K9/70 A61L15/38 A61L15/44

A61L15/60 A61P17/02 (Advanced/Invention);

A61F13/00 A61F13/15 A61K38/43 A61K47/30 A61K47/38 A61K9/52

A61K9/70 A61L15/16 A61P17/00 (Core/Invention)

International (IPC 1-7): A61F13/15 A61K38/44 A61K47/30

A61K47/38 A61K9/70 A61L15/16 A61L15/38 A61L15/44 A61P17/02

CPC: A61F13/00063 A61F13/023 A61F2013/00229 A61F2013/00561

A61F2013/00604 A61F2013/00748 A61F2013/00902 A61F2013/00927

A61L15/38 A61L15/60 A61F13/00059 A61F2013/00897

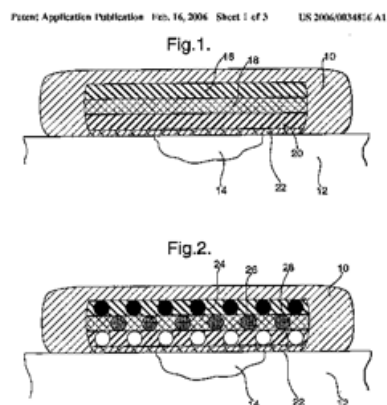
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K61F13/00L12E K61F13/00L2E5 K61F13/00L2K K61F13/00L5C

US: 424/455 424/455S 424/94.4 424/94.400P 435/174 435/189

PatBase - US2006034816_AA



Family:

Publication number	Publication date	Application number	Application date
AT329628 E	20060715	AT20030718951T	20030423
AU2003222985 AA	20031110	AU20030222985	20030423
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DE60346546 D1	20140828	DE20036046546	20030423
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EP1358893 A1	20031105	EP20020252895	20020424
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EP1693073 A2	20060823	EP20060011877	20030423
EP1693073 A3	20130327	EP20060011877	20030423
EP1693073 B1	20140723	EP20060011877	20030423
ES2266808 T3	20070301	ES20030718951T	20030423
ES2502486 T3	20141003	ES20060011877T	20030423
GB200211504 A0	20020626	GB20020011504	20020518
JP2005533534 T2	20051110	JP20030587426T	20030423
JP4475959 B2	20100609	JP20030587426T	20030423
PT1496951 T	20061031	PT20030718951T	20030423
PT1693073 T	20140918	PT20060011877T	20030423
US2006034816 AA	20060216	US20040512440	20041025
US7731954 BB	20100608	US20030512440	20030423
WO03090800 A1	20031106	WO2003GB01738	20030423

Priority:

EP20020252895 20020424 GB20020011504 20020518 EP20030718951 20030423
 WO2003GB01738 20030423 EP20060011877 20030423

Probable Assignee: SYSTAGENIX WOUND MANAGEMENT LTD

Assignee(s): (std): AUSTIN ANDREW J ; AUSTIN ANDREW JOHN ; DAVIS PAUL J ; DAVIS PAUL JAMES ; INSENSE LTD ; ARCHIMED LLP

Assignee(s): ARCHIMED LLP SHARNBROOK ; INSENSE LIMITED ; INSENSE LTD SHARNBROOK ; SYSTAGENIX WOUND MANAGEMENT LTD

Inventor(s): (std): ANDREW JOHN AUSTIN ; AUSTIN ANDREW J ; AUSTIN ANDREW JOHN ; DAVIS PAUL J ; DAVIS PAUL JAMES ; JOHN AUSTIN ANDREW ; PAUL JAMES DAVIS

Inventor(s): DAVIS PAUL JAMES FELMERSHAM BEDFORD ; AUSTIN ANDREW JOHN IRCHESTER

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; KIRBY EADES GALE
BAKER; PATENT U RECHTSANWAELTE LOESENBECK SPECHT DANTZ; MATTHEWS HEATHER CLARE;
LEHMANN MARIA ISABEL; NAKAMURA GIHEI; NODA HISATO; SAKAI MASAYUKI; HORII YUTAKA;
MORITA TOSHIO; FUKAMI HISAO; MORGAN LEWIS AND BOCKIUS LLP

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
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Title: METHOD FOR MAKING PAPER WEB HAVING BOTH BULK AND SMOOTHNESS.

Abstract: ABSTRACT A paper web and method of making the paper web are disclosed. In one embodiment the paper web includes a continuous relatively thinner region and a plurality of discrete relatively thickner regions. The relatively thicker regions are disposed in the plane of the relatively thinner region. The paper web can have a relatively patterned face and a relatively smooth face. The paper structures can be dried relatively quickly and efficiently, and can provide enhanced absorbency and bulk density while having a relatively smooth face.

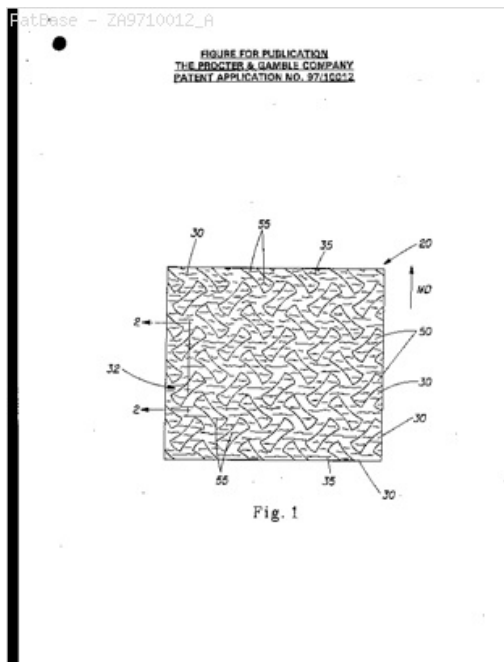
Classifications:

International (IPC 8-9): B29C39/18 B29C39/20 D21F11/00
D21F9/00 D21H11/12 (Advanced/Invention);
D21F11/00 (Advanced/Non-invention)

International (IPC 1-7): B31F1/12 D21F11/00 D21F9/00 D21H11/12
D21H15/02

CPC: Y10T428/24446 Y10T428/24455 B29C39/18 B29C39/203
D21F11/006

European: B29C39/18 B29C39/20B D21F11/00E



Family:

Publication number	Publication date	Application number	Application date
CN1117902 C	20030813	CN19971081262	19971114
CN1244226 A	20000209	CN19971081262	19971114
KR100342018 B1	20020702	KR19997004211	19990512
KR20000053234 A	20000825	KR19997004211	19971114
TH36467 A	19991223	TH19971004622	19971112
TW455639 B	20010921	TW19970116650	19971107
WO9821407 A1	19980522	WO1997US21062	19971114
ZA9710012 A	19980525	ZA19970010012	19971106

Priority:

US19960748872 19961114 WO1997US21062 19971114

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ;
GAMBLE CO ; PROCTER AND

Inventor(s): (std): PHAN D V ; PHAN DEAN VAN

Inventor(s): DEAN VAN PHAN ; D V PHAN ; DV PHAN

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB
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NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TG TJ TM TR TT UA UG UZ VN YU ZW

Title: PAPER WEB HAVING BOTH BULK AND SMOOTHNESS.

Abstract: . ABSTRACT A paper web and method of making the paper web are disclosed. In one embodiment the paper web includes a continuous relatively thinner region and a plurality of discrete relatively thicker regions. The relatively thicker regions are disposed in the plane of the relatively thinner region. The paper web can have a relatively patterned face and a relatively smooth face. The paper structures can be dried relatively quickly and efficiently, and can provide enhanced absorbency and bulk density while having a relatively smooth face.

Classifications:

International (IPC 8-9): B29C39/18 B29C39/20 D21F11/00

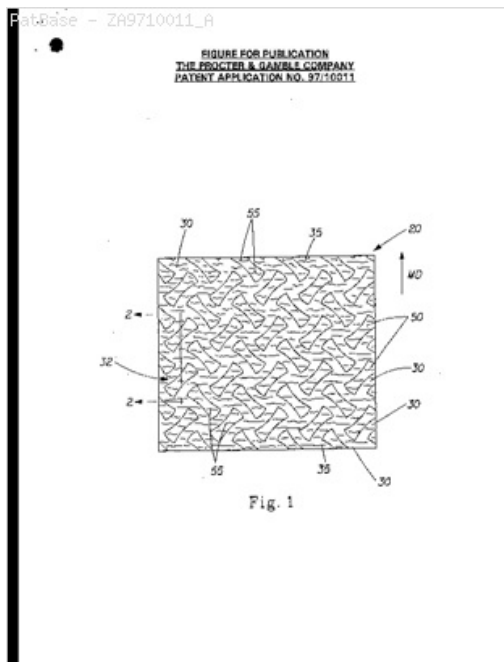
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D21H27/02 D21H27/30 (Advanced/Non-invention)

International (IPC 1-7): D21H27/02 D21H27/30

CPC: B29C39/18 B29C39/203 D21F11/006 D21H27/02 D21H27/30

European: B29C39/18 B29C39/20B D21F11/00E D21H27/02 N21H27/30



Family:

Publication number	Publication date	Application number	Application date
CN1130488 C	20031210	CN19971081263	19971114
CN1244228 A	20000209	CN19971081263	19971114
ES2212141 T3	20040716	ES19970947573T	19971114
KR100333212 B1	20020418	KR19997004210	19990512
KR20000053233 A	20000825	KR19997004210	19971114
WO9821409 A1	19980522	WO1997US21060	19971114
ZA9710011 A	19980525	ZA19970010011	19971106

Priority:

US19960748852 19961114 WO1997US21060 19971114

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY

Inventor(s): (std): PHAN D V ; PHAN DEAN VAN

Inventor(s): D V PHAN ; DEAN VAN PHAN ; DV PHAN

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

Title: METHOD FOR MAKING PAPER WEB HAVING BOTH BULK AND SMOOTHNESS

Abstract: A paper web and method of making the paper web are disclosed. In one embodiment the paper web includes a continuation relatively thinner region and a plurality of discrete relatively thicker regions. The relatively thicker regions are disposed in the plane of the relatively thinner region. The paper web can have a relatively patterned face and a relatively smooth face. The paper structures can be dried relatively quickly and efficiently, and can provide enhanced absorbency and bulk density while having a relatively smooth face.

Classifications:

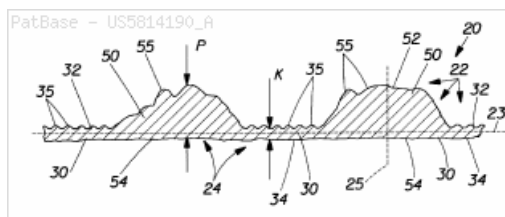
International (IPC 8-9): B29C39/18 B29C39/20
D21F11/00 (Advanced/Invention)

International (IPC 1-7): B31F1/12 D21H15/02

CPC: B29C39/18 B29C39/203 D21F11/006 Y10T428/24446
Y10T428/24455

European: B29C39/18 B29C39/20B D21F11/00E

US: 162/109 162/111 162/117 162/123 428/152 428/153



Family:

Publication number	Publication date	Application number	Application date
US5814190 A	19980929	US19960748872	19961114

Priority:

US19940268133 19940629	US19940268154 19940629	US19940268213 19940629
US19950439526 19950511	US19950462239 19950605	US19950461832 19950605
US19960748872 19961114		

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY

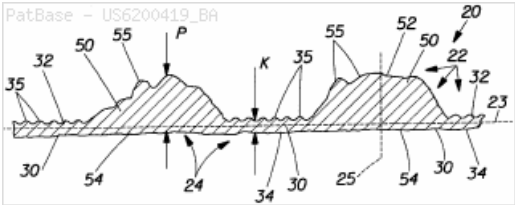
Inventor(s): (std): VAN PHAN DEAN

Title: Paper web having both bulk and smoothness

Abstract: A paper web and method of making the paper web are disclosed. In one embodiment the paper web includes a continuous relatively thinner region and a plurality of discrete relatively thicker regions. The relatively thicker regions are disposed in the plane of the relatively thinner region. The paper web can have a relatively patterned face and a relatively smooth face. The paper structures can be dried relatively quickly and efficiently, and can provide enhanced absorbency and bulk density while having a relatively smooth face.

Classifications:

International (IPC 8-9): B29C39/18 B29C39/20 D21F11/00 D21H27/02 (Advanced/Invention); D21H27/30 (Advanced/Non-invention)
International (IPC 1-7): B05C11/02
CPC: B29C39/18 B29C39/203 D21F11/006 D21H27/02 D21H27/30
European: B29C39/18 B29C39/20B D21F11/00E D21H27/02 N21H27/30
US: 162/109 162/130



Family:

Publication number	Publication date	Application number	Application date
US6200419 BA	20010313	US19960748852	19961114

Priority:

US19940268133 19940629	US19940268154 19940629	US19940268213 19940629
US19950462239 19950605	US19960748852 19961114	

Probable Assignee: LAM RESEARCH CORP

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; LAM RESEARCH CORP

Inventor(s): (std): PHAN DEAN VAN

Title: PAPER WEB HAVING BOTH BULK AND SMOOTHNESS

Abstract: (Claim 1) 1. a relatively thinner, continuous network region (30), and

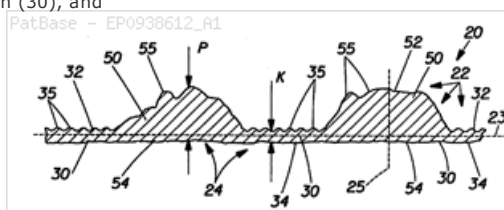
Classifications:

International (IPC 8-9): B05C11/02 B29C39/18 B29C39/20
D21F11/00 D21H11/12 D21H27/02 D21H27/30 (Advanced/Invention);
D21H27/30 (Advanced/Non-invention);
D21H11/12 (Core/Non-invention)

International (IPC 1-7): D21F11/00 D21H11/12 D21H27/02
D21H27/30

CPC: B29C39/18 B29C39/203 D21F11/006 D21H27/02 D21H27/30

European: B29C39/18 B29C39/20B D21F11/00E D21H27/02
N21H27/30



Family:

Publication number	Publication date	Application number	Application date
AR010600 AA	20000628	AR1997P105342	19971114
AT260367 E	20040315	AT19970947573T	19971114
AU199852621 A1	19980603	AU19980052621	19971114
AU734263 B2	20010607	AU19980052621	19971114
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CL1997002461 A1	19980710	CL19970002461	19971114
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DE69727821 T2	20041125	DE19976027821T	19971114
EP0938612 A1	19990901	EP19970947573	19971114
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JP2001504172 T2	20010327	JP19980522908T	19971114
MY115554 A	20030731	MY19970005357	19971111
PE25799 A1	19990331	PE19970001027	19971114
TH36249 A	19991215	TH19971004618	19971112
TW377378 B	19991221	TW19970116651	19971107

Priority:

US19960748852 19961114 WO1997US21060 19971114

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY

Assignee(s): THE PROCTER AND GAMBLE COMPANY CINCINNATI ; THE PROCTER AND GAMBLE COMPANYUS ; PHAN DEAN VAN

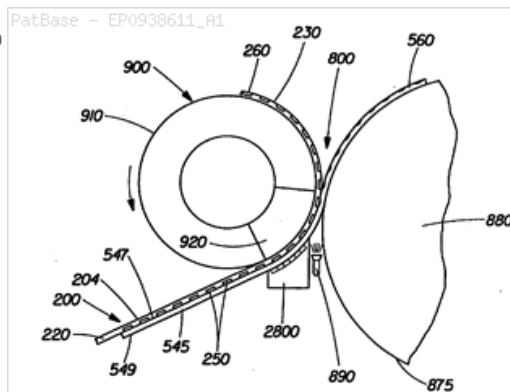
Inventor(s): (std): DEAN VAN PHAN ; PHAN DEAN VAN ; PHAN VAN

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; DIMOCK STRATTON LLP; WILSON LUE LLP; HARNECKER

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

Abstract: A paper web and method of making the paper web are disclosed. In one embodiment the paper web includes a continuous relatively thinner region and a plurality of discrete relatively thicker regions. The relatively thicker regions are disposed in the plane of the relatively thinner region. The paper web can have a relatively patterned face and a relatively smooth face. The paper structures can be dried relatively quickly and efficiently, and can provide enhanced absorbency and bulk density while having a relatively smooth face.

European: B29C39/18 B29C39/20B D21F11/00E



Publication number	Publication date	Application number	Application date
AT466996 E	20100515	AT19970948359T	19971114
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AU741811 B2	20011213	AU19980054445	19971114
BR19713033 A	20000411	BR1997P113033	19971114
CA2271863 AA	19990511	CA19972271863	19971114
DE69739871 D1	20100617	DE19976039871	19971114
EP0938611 A1	19990901	EP19970948359	19971114
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JP2001504173 T2	20010327	JP19980522909T	19971114
JP2008274540 A2	20081113	JP20080152379	20080611
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JP4276288 B2	20090610	JP20080152379	20080611
MY115113 A	20030331	MY19970005360	19971111

US19960748872 19961114 JP19980522909 19971114 JP19980522909T 19971114
WO1997US21062 19971114

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