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Title: **Absorbent articles** containing interparticle crosslinked aggregates

Abstract: **Absorbent articles** such as diapers or sanitary napkins incorporating particulate, absorbent, polymeric compositions comprising interparticle crosslinked aggregates. The interparticle crosslinked aggregates comprise precursor particles of substantially water-insoluble, absorbent, hydrogel-forming, polymer material; and an interparticle crosslinking agent reacted with the polymer material of the precursor particles to form crosslink bonds between the precursor particles. The polymeric compositions of the present invention may be incorporated into **absorbent articles** as the sole absorbent material; as an absorbent **core** comprising a mixture of fiber material and discrete particles of the polymeric composition; or as a laminate (a **layered** absorbent **core**) containing such polymeric compositions. The performance of **absorbent articles** is enhanced by the use of such polymeric compositions due to the high rate of **fluid** uptake and minimal gel blocking properties of the interparticle crosslinked aggregates.

Classifications:

International (IPC 8-9): A61F13/00 A61F13/15 A61F13/49 A61F13/53 A61F13/56 A61L15/00 A61L15/16 A61L15/18 A61L15/22 A61L15/24 A61L15/42 A61L15/60 B32B23/02 C08G18/60 C08G18/64 C08G59/18 C08L101/00 C08L51/02 (Advanced/Invention); A61F13/56 A61L15/00 A61L15/16 C08L101/00 (Advanced/Non-invention);

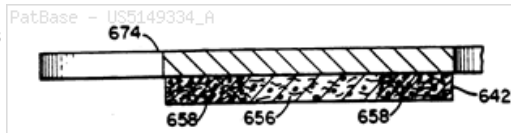
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International (IPC 1-7): A61F13/00 A61F13/15 A61F13/20 A61F13/46 A61F13/49 A61F13/53 A61L15/14 A61L15/16 A61L15/18 A61L15/20 A61L15/22 A61L15/24 A61L15/60 B01J20/26 B01J20/28 B32B23/02 B32B27/00 B32B27/06 B32B5/00 B32B5/16 C08G18/64 C08G59/18 C08J3/22 C08J5/04 C08K7/02 C08L51/02

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European: A61F13/00 A61F13/535 A61F13/537B4 A61F13/537C2 A61F13/537C4 A61L15/18 A61L15/42 A61L15/60 D01H13/30 K61F13/00L1R K61F13/15H11 K61F13/15J8 K61F13/15J8D K61F13/15J8P8 K61F13/15M11 K61F13/45C4 K61F13/49 K61F13/49D2 K61F13/49D2H3 K61F13/49D2H4 K61F13/49H5 K61F13/51 K61F13/511D2 K61F13/511D6 K61F13/512 K61F13/514A4 K61F13/514A4A K61F13/514C4B K61F13/51M6C K61F13/533 K61F13/534C K61F13/537H K61F13/53L K61F13/53M K61F13/53M4E K61F13/53P K61F13/53Q1A K61F13/53Q2 K61F13/53Q2A K61F13/53Q2C K61F13/53Q2D K61F13/53Q2E K61F13/53Q3 K61F13/53Q4A1 K61F13/53Q5 K61F13/53Q6 K61F13/53Q8 K61F13/53Q8B3 K61F13/58F K61F13/84E K61F13/84E1

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Family:

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CN1060961 C	20010124	CN19911002853	19910402
CN1067180 A	19921223	CN19921003419	19920411
CN1071131 C	20010919	CN19921003419	19920411
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EP0579764 A1	19940126	EP19920911230	19920409
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EP0591168 A1	19940413	EP19910907357	19910325
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ES2134195 T3	19991001	ES19910907357T	19910325
ES2134805 T3	19991016	ES19920911230T	19920409
FI924390 A	19920930	FI19920004390	19920930
FI924390 A0	19920930	FI19920004390	19920930
FI934466 A	19931011	FI19930004466	19931011
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HK1013027 A1	20000623	HK19980114280	19981221
HU216626 B	19990728	HU19930002872	19920409
HU63952 A2	19931129	HU19910002957	19910325
HU63952 A2	19931129	HU19970002957	19910325
HU66733 A2	19941228	HU19930002872	19920409
HU9302872 A0	19940128	HU19930002872	19920409

IE911053 A1	19911009	IE19910001053	19910328
IE921163 A1	19921021	IE19920001163	19920410
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JP6507564 T2	19940901	JP19920510874T	19920409
KR100240359 B1	20000302	KR19930703086	19920409
KR100348934 B1	20031011	KR19920702405	19910325
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KR19947000116 A	19940221	KR19937003086	19920409
MA22103 A1	19911231	MA19910022372	19910401
NO305224 B1	19990426	NO19930003604	19931008
NO933604 A	19931213	NO19930003604	19931008
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NZ237619 A	19950328	NZ19910237619	19910328
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PL167130 B1	19950731	PL19910296246	19910325
PL169462 B1	19960731	PL19920300814	19920409
PL170456 B1	19961231	PL19920310277	19920409
PT100369 A	19940429	PT19920100369	19920410
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PT97235 A	19911231	PT19910097235	19910402
PT97235 B	19990129	PT19910097235	19910402
RU2103970 C1	19980210	SU19915053173	19910325
RU2122391 C1	19981127	SU19930058277	19920409
RU93058277 A	19960610	RU19930058277	19931011
SG76468 A1	20001121	SG19960007993	19920409
SK108393 A3	19940907	SK19930001083	19920409
SK279288 B6	19980909	SK19930001083	19920409
TH26534 A	19970929	TH19911000413	19910402
US5149334 A	19920922	US19900503501	19900402
US5180622 A	19930119	US19900503500	19900402
US5419956 A	19950530	US19930080993	19930622
US5422169 A	19950606	US19930149173	19931108
US5505718 A	19960409	US19930124512	19930920
WO9115177 A1	19911017	WO1991US01892	19910325
WO9218171 A1	19921029	WO1992US02905	19920409

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

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Title: **Absorbent articles** with distribution materials positioned underneath storage material

Abstract: An **absorbent article** having an ultimate **fluid** storage region and a **fluid** distribution region, positioned between the ultimate storage region and the garment oriented surface of the article, in **fluid** communication with the ultimate **fluid** storage region, the ultimate **fluid** storage region includes a material which has: (1) a Capillary Sorption Desorption Capacity at 100 cm (CSDC 100) of at least 10 g/g; (2) a Capillary Sorption Desorption Capacity at 0 cm (CSDC 0) higher than the CSDC 100; (3) a Loosely Bound Liquid Capacity (LBLC); and (4) a Capillary Sorption Desorption Release Height when 50 **percent** of the LBLC are released (CSDRH 50) less than 60 cm. Further, the liquid distribution **layer** material has a Capillary Sorption Absorption Height at 30 **percent** of its maximum capacity (CSAH 30) of at least 35 cm. Distribution material can be foam materials, particularly those derived from high internal phase water-in-oil emulsions.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/53
A61F13/534 A61F5/44 A61L15/60 B32B5/00 (Advanced/Invention);
A61F13/15 A61F5/44 A61L15/00 B32B5/00 (Advanced/Non-invention);
A61F13/15 A61F5/44 A61L15/16 B32B5/00 (Core/Invention)

International (IPC 1-7): A61F A61F13/15 A61F13/49 A61F13/53
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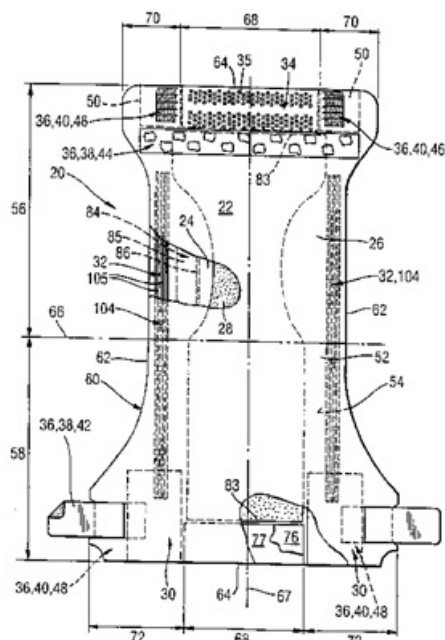
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K61F13/537E K61F13/53R1 K61F13/53R4

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604/385.101

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HU0102691 AB	20011128	HU20010002691	19990423
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IL139137 A0	20011125	IL19990139137	19990423
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IN230877 B	20090327	IN2000DN00258	20001013
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JP2002512847 T2	20020508	JP20000545472T	19990423
JP2003521266 T2	20030715	JP20000545470T	19990423
JP4498603 B2	20100707	JP20000545472T	19990423
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KR20010043108 A	20010525	KR20007011994	19990423
MX217629 B	20031117	MX2000PA10515	19980428
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MXPA00010679 A1	20010501	MX2000PA10679	19980428
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NZ507503 A	20030926	NZ19990507503	19990423
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PE06692000 A1	20001006	PE19990000348	19990428
PE06722000 A1	20001006	PE19990000349	19990428
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TH39612 A	20000731	TH19991001422	19990427
TH39613 A	20000731	TH19991001423	19990427
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TR200003138 T2	20010321	TR20000003138T	19990423
TW406015 B	20000921	TW19990115570	19990909
TW421589 B	20010211	TW19990115568	19990909
TW569768 Y	20040101	TW20030203683U	19990909
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US6713661 BA	20040330	US20000674057	20001025
US6720471 BA	20040413	US20000674053	20001025
WO9955263 A1	19991104	WO1999IB00739	19990423
WO9955264 A1	19991104	WO1999IB00741	19990423
WO9955265 A1	19991104	WO1999IB00751	19990423
WO9955267 A1	19991104	WO1998US08515	19980428
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Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): ARNDT SILKE ; EHRNSPERGER BRUNO JOHANNES ; KREUZER CARSTEN HEINRICH ; LAVON GARY DEAN ; LINK ANDREA LIESELOTTE ; NEUMANN FRANK ; PROCTER AND GAMBLE ; SCHMIDT MATTIAS ; STOELZEL CLAUS PETER ; PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY

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Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV 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 ZA ZW

Title: ABSORBENT MEMBERS FOR BODY **FLUIDS** HAVING GOOD WET INTEGRITY AND RELATIVELY HIGH CONCENTRATIONS OF HYDROGEL-FORMING ABSORBENT POLYMER HAVING HIGH POROSITY

Abstract: Absorbent members useful in the containment of body **fluids** such as urine, that have at least one region containing hydrogel-forming absorbent polymer in a concentration of from about 60 to 100 **percent** by weight and providing a gel-continuous **fluid** transportation zone when in a swollen state. This hydrogel-forming absorbent polymer has: (a) a porosity of at least about 0.15; (b) a Performance under Pressure (PUP) capacity value of at least about 23 g/g under a confining pressure of 0.7 psi (5 kPa); (c) a basis weight of at least about 10 gsm; and (d) optionally, but preferably, a Saline Flow Conductivity (SFC) value of at least about 30x10⁻⁷ cm³ sec/g. In addition, the region where this hydrogel-forming absorbent polymer is present has, even when subjected to normal use conditions, sufficient wet integrity such that the gel-continuous zone substantially maintains its ability to acquire and transport body **fluids** through the gel-continuous zone.

Classifications:

International (IPC 8-9): A61F13/00 A61F13/15 A61F13/49 A61F13/53

A61F5/44 A61L15/16 A61L15/22 A61L15/42

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A61F5/44 A61L15/42 A61L15/60 (Advanced/Non-invention);

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International (IPC 1-7): A61F13/15 A61F13/20 A61F13/46 A61F5/44

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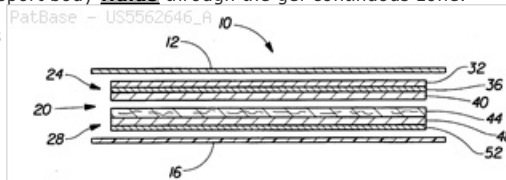
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Publication number	Publication date	Application number	Application date
AT203418 E	20010815	AT19950911971T	19950227
AU199519340 A1	19951017	AU19950019340	19950227
AU704179 B2	19990415	AU19950019340	19950227
CA2183965 AA	19960822	CA19952183965	19950227
CA2183965 C	20010515	CA19952183965	19950227
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EP0752892 A1	19970115	EP19950911971	19950227
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JP3768235 B2	20060419	JP19950525163T	19950227
JP9510889 T2	19971104	JP19950525163T	19950227
KR19970702078 A	19970513	KR19960705387	19950227
MX9604409 A1	19970731	MX19960004409	19950227
PE21496 A1	19960701	PE19950264989	19950327
TH18193 A	19960419	TH19951000629	19950328
US5562646 A	19961008	US19950416396	19950406
US5599335 A	19970204	US19940219574	19940329
US5669894 A	19970923	US19960725010	19961001
WO9526209 A1	19951005	WO1995US02442	19950227
ZA9502518 A	19960208	ZA19950002518	19950328

Priority:

US19940219574 19940329 WO1995US02442 19950227 US19950416396 19950406
US19960725010 19961001

Probable Assignee: PROCTER AND GAMBLE CO

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

Assignee(s): PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE COMPANY THE ; PLISCHKE MANFRED ; RETZSCH HERBERT LOUIS ; PROCTER AND GAMBLE CO CINCINNATI ; PROCTOR AND GAMBLE CO ; PROCTER AND GAMBLE CO THE ; THE PROCTOR AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE COMPANY CINCINNATI ; WALKER TREVOR ; YOUNG GERALD ALFRED ; GOLDMAN STEPHEN ALLEN ; HAYNES NANCY ANN ; MANSFIELD TODD LEON

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Inventor(s): MANSFIELD T L ; GERALD ALFRED YOUNG ; LOUIS RETZCH HERBERT ; STEHPEN ALLEN GOLDMAN ; STEPHEN ALLEN GOLDMAN ; TODD LEON MANSFIELD ; TREVOR WALKER ; WALKER T ; YONG G A ; NANCY ANN HAYNES ; PLISCHKE M ; RETZCH H L ; HERBERT LOUIS RETZSCH ; MANFRED PLISCHKE ; GOLDMAN S A ; HAYNES N A ; HAYNES NA

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

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TT UA UG UZ VN

Title: PARTICULATE, ABSORBENT, POLYMERIC COMPOSITIONS CONTAINING INTERPARTICLE CROSSLINKED AGGREGATES

Abstract: Particulate, absorbent, polymeric compositions comprising interparticle crosslinked aggregates. The interparticle crosslinked aggregates comprise precursor particles of substantially water-insoluble, absorbent, hydrogel-forming, polymer material; and an interparticle crosslinking agent reacted with the polymer material of the precursor particles to form crosslink bonds between the precursor particles. Sufficient interparticle crosslinked aggregates are formed when the mass average particle **size** of the resultant polymeric composition has been increased by at least about 25 **percent** over the mass average particle **size** of the precursor particles. The resultant polymeric composition provides improved structural integrity, an increased **acquisition** rate, and minimal gel blocking properties.

Classifications:

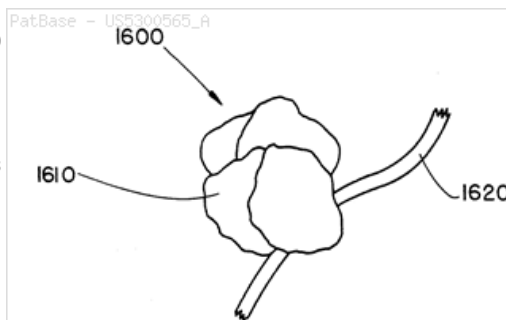
International (IPC 8-9): A61F13/15 A61F13/49 A61F13/53 A61L15/00 A61L15/22 A61L15/60 B01J20/26 C08F291/00 C08J3/12 C08J3/24 C08J9/16 C08L33/00 C08L33/24 (Advanced/Invention); A61F13/15 A61L15/00 (Advanced/Non-invention); A61F13/15 A61L15/00 A61L15/16 C08F291/00 C08J3/12 C08J3/24 C08J9/00 C08L33/00 (Core/Invention)

International (IPC 1-7): A61F13/15 A61F13/46 A61F13/49 A61F13/53 A61L A61L15/00 A61L15/20 A61L15/22 A61L15/24 A61L15/60 B01J20/26 B01J20/28 B01J20/30 B32B23/02 B32B3/10 B32B31/30 B32B33/00 B32B5/16 B32B5/20 B32B5/22 C08F291/00 C08G63/48 C08G63/91 C08J3/12 C08J3/24 C08J9/00 C08J9/16 C08L101/00 C08L3/02 C08L31/04 C08L33/00 C08L33/02 C08L33/08 C08L33/20 C08L33/26 C08L51/00

CPC: Y10S428/913 A61L15/60 Y10T428/24777 Y10T428/25 Y10T428/254 Y10T428/253 Y10T428/24994 Y10T442/673

European: A61L15/60

US: 428/192 428/283 428/284 428/294 428/297.4 428/323 428/326 428/327 428/913 442/393 524/555 524/556 524/563 524/565 525/123 525/329.2 525/329.4 525/330.5 525/54.2 525/54.24 525/54.26 525/54.31 604/368



Family:

Publication number	Publication date	Application number	Application date
AR248358 A1	19950818	AR19910319367	19910402
AT143608 E	19961015	AT19910908112T	19910325
AU199176749 A1	19911030	AU19910076749	19910325
AU660924 B2	19950713	AU19910076749	19910325
BRPI9106316 A	19930420	BR1991PI06316	19910325
CA2079452 AA	19920924	CA19912079452	19910325
CA2079452 C	19970415	CA19912079452	19910325
CN1050304 C	20000315	CN19911002943	19910402
CN1056111 A	19911113	CN19911002943	19910402
CN1138570 C	20040218	CN19991018352	19990823
CN1273862 A	20001122	CN19991018352	19910402
CS9100896 A2	19911112	CS19910000896	19910402
CS9100896 A3	19911112	CS19910000896	19910402
CZ289486 B6	20020213	CS19910000896	19910402
DE69122504 D1	19961107	DE19916022504	19910325
DE69122504 T2	19970320	DE19916022504T	19910325
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EG19391 A	19950830	EG19910000195	19910402
EP0525049 A1	19930203	EP19910908112	19910325
EP0525049 A4	19930210	EP19910908112	19910325
EP0525049 B1	19961002	EP19910908112	19910325
ES2091924 T3	19961116	ES19910908112T	19910325
FI105038 B	20000531	FI19920004389	19920930
FI924389 A	19920930	FI19920004389	19920930
FI924389 A0	19920930	FI19920004389	19920930
GR3021234 T3	19970131	GR19960402540T	19961003
HK1006424 A1	19990226	HK19980105669	19980618
HU215635 B	19990128	HU19920003091	19910325
HU63356 A2	19930830	HU19920003091	19910325
IE75690 B	19971022	IE19910001052	19910328
IE911052 A1	19911009	IE19910001052	19910328
JP3210009 B2	20010917	JP19910507584T	19910325
JP506263 T2	19930916	JP19910507584T	19910325
KR100200238 B1	19990615	KR19920072403	19921001
KR100200238 B1	19990615	KR19920702403	19910325
KR100200238 B1	19990615	KR19920072403	19921001
KR19937000301 A	19930313	KR19927002403	19910325
MA22102 A1	19911231	MA19910022371	19910401
NZ237618 A	19930927	NZ19910237618	19910328
PL168265 B1	19960131	PL19910296245	19910325
PT97236 A	19920131	PT19910097236	19910402
PT97236 B	19990129	PT19910097236	19910402
RU2091081 C1	19970927	SU19915053154	19910325
SA97 B1	20040124	SA19910110397	19910611
SG55143 A1	19981221	SG19960007887	19910325
SK281118 B6	20001211	SK19910000896	19910402
TH26533 A	19970929	TH19911000412	19910402
US5300565 A	19940405	US19900503506	19900402
US5330822 A	19940719	US19930109795	19930820
US5384179 A	19950124	US19900502942	19900402

US5397626 A	19950314	US19930160007	19931130
US5492962 A	19960220	US19940228947	19940418
WO9115368 A1	19911017	WO1991US01891	19910325

Priority:

US19900502942	19900402	US19900503499	19900402	US19900503506	19900402
WO1991US01891	19910325	US19920841891	19920225	US19920996357	19921223
US19930109795	19930820	US19930160007	19931130	US19940228947	19940418

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 CO CINCINNATI OHIO US ; PROCTER AND GAMBLE COMPANY (THE) ; ROE DONALD CARROLL ; THE PROCTOR AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE COMPANY US ; BERG CHARLES JOHN ; DZE PROKTER EHND GEHMBL KOMPANI ; DZE PROKTER END GEMBL KOMPANI ; LAHRMAN FRANK HENRY ; THE PROCTER AND GAMBLE COMPANY

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

Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR HU IT JP KR LI LU NL PL SE SU

Title: Absorbent components having a sustained **acquisition** rate capability upon absorbing multiple discharges of aqueous body **fluids**

Abstract: The present invention relates in one aspect to **absorbent articles** that maintain or increase **fluid acquisition** rates when subjected to successive **fluid** loads. In another aspect, the invention relates to an **absorbent article** useful for absorbing discharges of aqueous body **fluids** which has a **fluid pervious** topsheet, a backsheet and an absorbent **core**, the absorbent **core** including at least one upper storage component in direct **fluid** communication with the topsheet capable of expanding in the z-direction to form a **fluid acquisition** zone when contacted with aqueous body **fluids**, the **acquisition** zone being at least partially surrounded by the upper **fluid** storage component and beneath the **fluid** discharge region of the **core**, and a **fluid acquisition**/distribution component having at least a portion positioned underneath and in **fluid** communication with the storage component and **acquisition** zone.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/53

A61F5/44 (Advanced/Invention);

A61F13/15 A61F5/44 (Advanced/Non-invention);

A61F13/15 A61F5/44 (Core/Invention)

International (IPC 1-7): A61F13/15 A61F13/46 A61F13/49

A61F13/491 A61F13/53 A61F13/537 A61F13/539 A61F5/44

A61L15/16 A61L15/26

CPC: A61F13/4755 A61F13/4946 A61F13/5323 A61F13/535

A61F13/53708 A61F13/53747 A61F13/53752 A61F13/53756

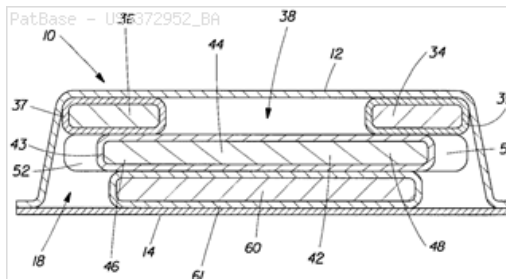
A61F13/5376

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A61F13/537D

US: 604/369 604/375 604/378



Family:

Publication number	Publication date	Application number	Application date
AT280560 E	20041115	AT19970917505T	19970228
AU199725801 A1	19971010	AU19970025801	19970228
BRPI9708144 A	19990727	BR1997PI08144	19970228
CA2249322 AA	19980918	CA19972249322	19970228
CA2249322 C	20030114	CA19972249322	19970228
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DE69731403 T2	20060209	DE19976031403T	19970228
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EP0959850 B1	20041027	EP19970917505	19970228
EP0959850 B2	20100317	EP19970917505	19970228
ES2227685 T3	20050401	ES19970917505T	19970228
HU222066 B1	20030428	HU19990002447	19970228
HU9902447 AB	19991129	HU19990002447	19970228
HU9902447 AC	19991228	HU19990002447	19970228
ID16783 A	19971113	ID19970000950	19970324
IL126300 A0	19990509	IL19970126300	19970228
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JP11506963 T2	19990622	JP19970533487T	19970228
JP3249535 B2	20020121	JP19970533487T	19970228
KR100323815 B1	20020620	KR19980707499	19970228
KR20000064746 A	20001106	KR19980707499	19970228
NO984405 A	19981123	NO19980004405	19980921
NO984405 A0	19980921	NO19980004405	19980921
PE63198 A1	19981206	PE19970000234	19970324
TH46651 A	20010815	TH19971001027	19970319
TR9801882 T2	19981221	TR19980001882T	19970228
US6372952 BA	20020416	US19960621030	19960322
WO9734559 A1	19970925	WO1997US03287	19970228
ZA9702243 A	19970917	ZA19970002243	19970314

Priority:

US19960621030 19960322 WO1997US03287 19970228

Probable Assignee: PROCTER AND GAMBLE CO

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

Assignee(s): PROCTER AND GAMBLE CO ; FURUKAWA FUMITO ; LASH GLEN RAY ; LITCHHOLT JOHN JOSEPH ; THE PROCTER AND GAMBLE COMPANY CINCINNATI ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE CO CINCINNATI ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO ; PROCTER AND GAMBLE FAR EAST INC ; SCHMIDT MATTIAS ; REZAI EBRAHIM

Inventor(s): (std): GLEN R LASH ; GLEN RAY LASH ; GLENN RAY LASH ; JOHN J LITCHHOLT ; JOHN JOSEPH LITCHHOLT ; JOHN JOSEPH LITCHHOLT ; LASH GLEN R ; LASH GLENN RAY ; LITCHHOLT JOHN J ; LITCHHOLT JOHN JOSEPH ; LITCHHOLT JOHN JOSEPH ; MATTIAS SCHMIDT ; EBRAHIM REZAI ; FUMITO FURAKAWA ; FUMITO FURUKAWA ; FURAKAWA FUMITO ; FURUKAWA FUMITO ; REZAI EBRAHIM ; SCHMIDT MATTIAS ; LITCHHOLT JOSEPH ; LASH RAY

Inventor(s): REZAI ERAHIM ; FURUKAWA FUMITO REZAI EBRAHIM ; RAY LASH GLEN

Agent(s): SIM AND MCBURNEY; HARNECKER; CARLOS REINALDO OLARTE GARCIA; CANONICI JEAN JACQUES

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 GN GR HU IE IL IS IT JP KE KG KP KR KZ LC LI 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 SN SZ TD TG TJ TM TR TT UA UG UZ VN YU

Priority:

US19910637571 19910103 WO1991US09697 19911220

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE COMPANY THE ; THE PROCTER AND GAMBLE COMPANY ; DZE PROKTER EHND GEHMBL KOMPANI

Assignee(s): FEIST BARRY ROBERT ; BENJAMIN JOYCE MARIE ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO US

Inventor(s): (std): ROBERT BARRI FEIST ; JOYCE MARIE BENJAMIN ; JM BENJAMIN ; FEIST B R ; DZHOJS MEHRI BENZHAMIN ; BR FEIST ; BENJAMIN J M ; BARRY ROBERT FEIST ; FEIST BARRY ROBERT ; FEIST BARRY R ; FEIST BARRY ; BENJAMIN JOYCE MARIE ; BENJAMIN JOYCE M ; BENJAMIN JOYCE

Inventor(s): B R FEIST ; FEIST BARRY ROBERT CINCINNATI OH 45243 US ; BENJAMIN JOYCE MARIE CINCINNATI OH 45240 US ; J M BENJAMIN

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

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IT JP KP KR LI LK LU MC MG ML MN MR MW NL NO PL RO SD SE SN SU TD TG

Title: HIGH DENSITY ABSORBENT MEMBERS HAVING LOWER DENSITY AND LOWER BASIS WEIGHT **ACQUISITION** ZONES

Abstract: An **absorbent article** wherein the deposition region of its absorbent member comprises a storage zone and an acquisition zone having a lower average density and a lower average basis weight per unit area than the storage zone. The **acquisition** zone is positioned toward the front of either the absorbent member or the **absorbent article** so that the acquisition zone may most effectively and efficiently rapidly acquire discharged liquids. The absorbent member also comprises a mixture of hydrophilic fibrous material and discrete particles of absorbent gelling material to enhance the absorbent capacity of the absorbent member.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/53

A61F5/44 (Advanced/Invention);

A61F5/44 (Advanced/Non-invention);

A61F13/15 A61F5/44 (Core/Invention)

International (IPC 1-7): A41B13/00 A41B13/02 A61F13/15

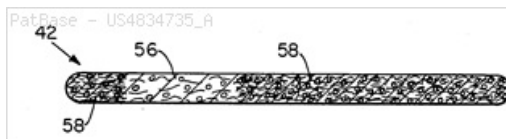
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CPC: A61F13/531 A61F13/534 A61F13/535 A61F13/53717 A61F2013/15284 Y10S428/913 A61F2013/15406 A61F2013/15422 Y10T428/2495 Y10T428/24992 A61F2013/530489 A61F2013/530525 A61F2013/530569 A61F2013/530708 A61F2013/530905 A61F2013/530934 A61F13/511 A61F13/53747 A61F13/533 A61F13/53752 A61F2013/1543 A61F2013/15536 A61F2013/530445 A61F2013/530481 A61F2013/53051 A61F2013/53795

European: A61F13/533 A61F13/535 A61F13/537B4 A61F13/537C2 A61F13/537C4 K61F13/15J8 K61F13/15J8E K61F13/15J8H K61F13/15J8H1 K61F13/15J8P8 K61F13/512F K61F13/531 K61F13/534 K61F13/537H K61F13/53P1 K61F13/53Q K61F13/53Q1 K61F13/53Q2 K61F13/53Q2B K61F13/53Q3 K61F13/53Q8 K61F13/53S4A K61F13/53S5A

US: 428/213 428/218 428/283 428/284 428/913 604/368 604/378



Family:

Publication number	Publication date	Application number	Application date
AR243763 A1	19930930	AR19870308178	19870717
AT105703 E	19940615	AT19890300420T	19890118
AT118163 E	19950215	AT19870306259T	19870715
AU198775756 A1	19880121	AU19870075756	19870717
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CA1314696 A1	19930323	CA19890588417	19890117
DE3751044 D1	19950323	DE19873751044	19870715
DE3751044 T2	19950914	DE19873751044T	19870715
DE68915294 D1	19940623	DE19896015294	19890118
DE68915294 T2	19941027	DE19896015294T	19890118
DK175648 B1	20050103	DK19870003755	19870717
DK375587 A	19880119	DK19870003755	19870717
DK375587 A0	19870717	DK19870003755	19870717
EG18493 A	19930430	EG19870000418	19870716
EP0254476 A2	19880127	EP19870306259	19870715
EP0254476 A3	19890802	EP19870306259	19870715
EP0254476 B1	19950208	EP19870306259	19870715
EP0325416 A2	19890726	EP19890300420	19890118
EP0325416 A3	19900124	EP19890300420	19890118
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ES2052896 T3	19940716	ES19890300420T	19890118
ES2067446 T3	19950401	ES19870306259T	19870715
FI873172 A	19880119	FI19870003172	19870717
FI873172 A0	19870717	FI19870003172	19870717
FI88253 B	19930115	FI19870003172	19870717
FI88253 C	19930426	FI19870003172	19870717
GR3015029 T3	19950531	GR19950403918T	19950209
HK134497 A	19980227	HK19970001344	19970626
IE65287 B	19951018	IE19870001941	19870717
IE871941 L	19880118	IE19870001941	19870717
JP2005945 A2	19900110	JP19890013880	19890123
JP2635599 B2	19970730	JP19870179880	19870718
JP2996664 B2	20000111	JP19890013880	19890123
JP63109859 A2	19880514	JP19870179880	19870718
KR19880001244 A	19880422	KR19870007783	19870718
KR960006058 B1	19960508	KR19870007783	19870718
MA21039 A1	19880401	MA19870021276	19870716
NZ221113 A	19900926	NZ19870221113	19870717
PH24500 A	19900718	PH19870035536	19870714
PT85340 A	19880729	PT19870085340	19870716
PT8851 U	19940228	PT19930008851U	19930722
PT8851 Y	19960229	PT19930008851U	19930722
TR25840 A	19930809	TR19870000493	19870717
US4834735 A	19890530	US19860887584	19860718
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Priority:

US19860887584 19860718 CA19870542042 19870714 US19880147375 19880122
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Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; PROCTER AND GAMBLE COMPANY THE ; ALEMANY MIGUEL ; BERG CHARLES J

Assignee(s): BERG CHARLES JOHN ; THE PROCTOR AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO US ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO ; PROCTOR AND GAMBLE CO ; PROCTER AND GAMBLE CO THE ; PUROKUTAA ANDO GYANBURU CO ZA

Inventor(s): (std): CHARLES JOHN BERG ; CHIYAARUZU JIYON BAAGU ; MIGERU AAREMANII ; MIGUEL ALEMANY ; BERG CHARLES J ; ALEMANY MIGUEL ; BERG CHARLES JOHN

Inventor(s): ALEMANY MIGUEL CINCINNATI OHIO 45247 US ; CHAARUZU JON BAAGU ; BERG CHARLES JOHN CINCINNATI OHIO 45224 US ; BERG CHARLES JOHN CINCINNATI OHIO 45224

Agent(s): PHILLIPS ORMONDE FITZPATRICK; GOWLING LAFLEUR HENDERSON LLP; SIM AND MCBURNEY

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

Title: **Absorbent article** having improved comfort during use by improved fit even when loaded and improved rewet performance

Abstract: **Absorbent article** comprising an absorbent **core** with a crotch region and at least one waist region, whereby said crotch region has a lower ultimate **fluid** storage capability than said at least one waist region. The article further has an improved **fluid** handling performance in particular a low rewet value for minimizing skin hydration during use, such as measured by the post **acquisition** collagen rewet method value not exceeding 180 mg.

Classifications:

International (IPC 8-9): A47G7/00 A61F13/00 A61F13/15 A61F13/40 A61F13/49 A61F13/53 A61F5/44 (Advanced/Invention);

A61F5/44 (Advanced/Non-invention);

A47G7/00 A61F13/15 A61F5/44 (Core/Invention);

A61F13/00 A61F13/40 (Core/Non-invention);

A61F B32B (Subclass/Invention)

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A61F13/49 A61F13/53 A61F5/44

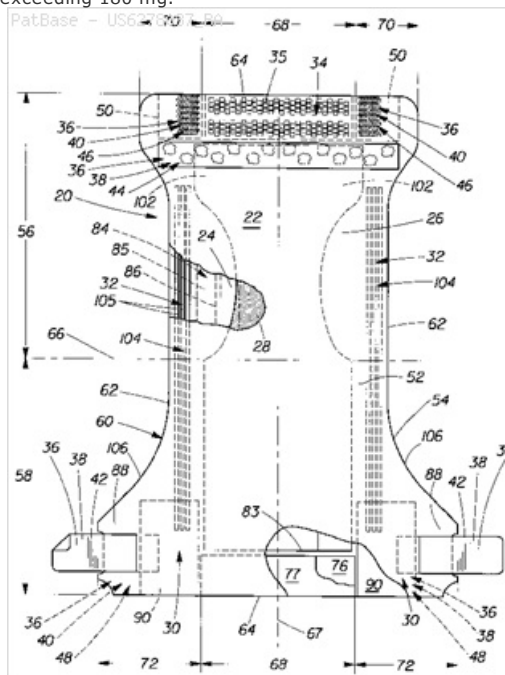
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A61F2013/530481 A61F2013/530817

European: A61F13/15J K61F13/15J8 K61F13/53P K61F13/53Q

K61F13/53R1A

US: 604/367 604/369 604/378



Family:

Publication number	Publication date	Application number	Application date
AT227553 E	20021115	AT19970917664T	19970327
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EP0975294 B2	20060726	EP19970917664	19970327
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IN00636DE1998 A	20060303	IN1998DE00636	19980312
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JP2000510033 T2	20000808	JP19980541571T	19970327
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Priority:

BR1997PI14654 19970327 CZ19990003408 19970327 EP19970917664 19970327

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Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): HELLER ZSUZSA G ; LAVON GARY DEAN ; NEUMANN FRANK ; PALUMBO GIANFRANCO ; PROCTER AND GAMBLE ; SCHMIDT MATTIAS ; EHRNSPERGER BRUNO JOHANNES ; PROCTER AND GAMBLE CO CINCINNA ; THE PROCTER AND GAMBLE CO ; THE PROCTOR AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE COMPANY ; YOUNG GERALD ALFRED

Assignee(s): THE PROCTER AND GAMBLE COMPANY CINCINNATI ; PROCTER AND GAMBLE COMPANY THE ; THE PROCTER AND GAMBLE COMPANYUS ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO ; THE PROCTER AND GAMBLE CO CINCINNATI ; PROCTER AND GAMBLE GMBH ; PROCTER AND GAMBLE CO ; G HELLER ZSUZSA ; PROCTOR AND GAMBLE CO

Inventor(s): (std): BRUNO JOHANNES EHRNSPERGER ; DEAN LAVON GARY ; EHRNSPERGER BRUNO JOHANNES ; EHRNSPERGER JOHANNES ; FRANK NEUMANN ; GAINFRANCO PALUMBO ; GARY DEAN LAVON ; GERALD ALFRED YOUNG ; GIANFRANCO PALUMBO ; LAVON DEAN ; LAVON GARY DEAN ; MATTIAS SCHMIDT ; NEUMANN FRANK ; PALUMBO GIANFRANCO ; SCHMIDT MATTIAS ; YOUNG ALFRED ; YOUNG GERALD ALFRED ; YOUNG GERALD A ; LAVON GARY D ; YOUNG GARY A ; G HELLER ZSUZSA

Inventor(s): PALUMBO GAINFRANCO

Agent(s): SIM AND MCBURNEY; CARLOS REINALDO OLARTE GARCIA; REINHOLD COHN AND PARTNERS

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 GN GR HU IE IL IS IT JP KE KG KP KR KZ LC LI 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 SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU

Title: **FLUID PERMEABLE** STRUCTURED FIBROUS WEB

Abstract: The present disclosure is directed to a disposable **absorbent article** comprising a **fluid permeable** structured fibrous web, the fibrous web comprising thermally stable, fibers that are thermally bonded together using heat producing a base substrate that is thermally stable. The base substrate is textured via mechanical treatment producing a structured fibrous web having an aged caliper of less than 1.5 mm, a vertical wicking height of at least 5 mm, a permeability of at least 10,000 cm²/(Pa·s) and a specific volume of at least 5 cm³/g. The structured fibrous web provides optimal **fluid** wicking and the **fluid acquisition** capabilities and is directed toward **fluid** management applications.

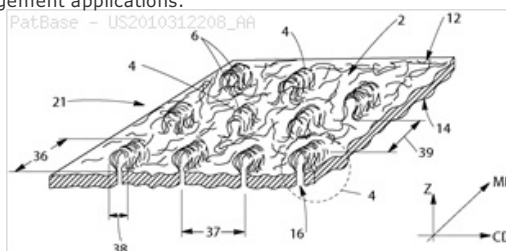
Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/515
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CPC: A61F13/5376 A61F13/532 A61F13/538 A61F2013/15406
A61F2013/53721

European: A61F13/532 A61F13/537D A61F13/538 K61F13/1538E
K61F13/537B5

US: 604/366 604/366P



Family:

Publication number	Publication date	Application number	Application date
BRPI1012914 A2	20180724	BR2010PI12914	20100603
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CN104224451 B	20170714	CN201410495215	20100603
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JP2014057882 A2	20140403	JP20130245343	20131127
JP2016064142 A2	20160428	JP20150233475	20151130
JP5426760 B2	20140226	JP20120514106T	20100603
US2010312208 AA	20101209	US20090477473	20090603
WO10141643 A1	20101209	WO2010US37146	20100603

Priority:

US20090477473	20090603	CN201080024556	20100603	EP20100727588	20100603
JP20120514106	20100603	JP20120514106T	20100603	JP20130245343	20100603
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Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): BOND ERIC BRYAN ; FROELICH UTE ; KRIPPNER CAROLA ; KRIPPNER CAROLA ELKE BEATRICE ; PROCTER AND GAMBLE

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

Inventor(s): (std): BOND ERIC BRYAN ; ERIC BRYAN BOND ; FROELICH UTE ; KRIPPNER CAROLA ; KRIPPNER CAROLA ELKE BEATRICE ; UTE FROELICH ; CAROLA KRIPPNER ; BRYAN BOND ERIC

Agent(s): DIMOCK STRATTON LLP; WILSON LUE LLP; HEIDE UTE; NAGAI HIROSHI; THE PROCTER AND GAMBLE COMPANY,GLOBAL LEGAL DEPARTMENT - IP; THE PROCTER AND GAMBLE COMPANY

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: STRUCTURED FIBROUS WEB

Abstract: The present disclosure is directed to disposable **absorbent articles** comprising a structured fibrous web, the structured fibrous web comprising thermally stable, hydrophilic fibers that are thermally bonded together using heat producing a base substrate that is thermally stable. The base substrate is textured via mechanical treatment to increase its thickness and optionally modified via over bonding to improve its mechanical and **fluid** handling properties. The structured fibrous web provides optimal **fluid** wicking and **fluid acquisition** capabilities and is directed toward **fluid** management applications.

Classifications:

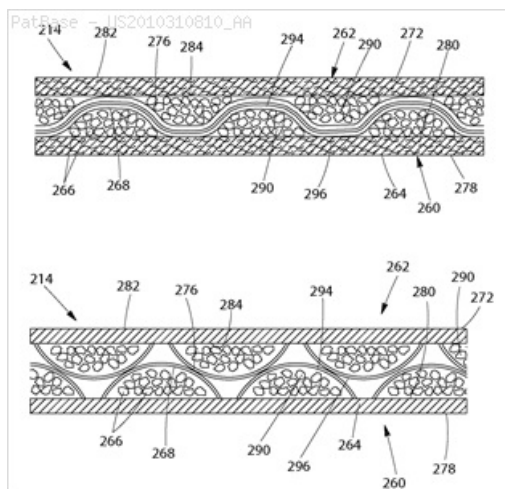
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B32B5/26 (Advanced/Invention)

CPC: Y10T428/237 B32B5/26 A61F13/511 A61L15/26 A61L15/60
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European: A61F13/511 A61L15/26 A61L15/60 B32B5/26

US: 428/74 428/74P



Family:

Publication number	Publication date	Application number	Application date
BRPI1012960 A2	20160329	BR2010PI12960	20100528
CA2763926 AA	20111129	CA20102763926	20100528
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CN102802575 B	20150819	CN201080024555	20100528
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DE602010027715 D1	20151105	DE201060027715T	20100528
EP2437704 A2	20120411	EP20100725935	20100528
EP2437704 B1	20150923	EP20100725935	20100528
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US2010310810 AA	20101209	US20090477449	20090603
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Priority:

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WO2010US36577 20100528 JP20120514016 20100528 JP20120514016T 20100528

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): BOND ERIC BRYAN ; KRIPPNER CAROLA ; PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO ; STRUBE JOHN BRIAN

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

Inventor(s): (std): STRUBE JOHN BRIAN ; KRIPPNER CAROLA ; JOHN BRIAN STRUBE ; ERIC BRYAN BOND ; CAROLA KRIPPNER ; BRYAN BOND ERIC ; BRIAN STRUBE JOHN ; BOND ERIC BRYAN

Agent(s): DIMOCK STRATTON LLP; WILSON LUE LLP; HEIDE UTE; NAGAI HIROSHI; THE PROCTER AND GAMBLE COMPANY,GLOBAL LEGAL DEPARTMENT - IP; THE PROCTER AND GAMBLE COMPANY

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: **FLUID PERMEABLE** STRUCTURED FIBROUS WEB

Abstract: A disposable **absorbent article** having a **fluid permeable** structured fibrous web with thermally stable, fibers that are thermally bonded together using heat provides a base substrate that is thermally stable. The base substrate is textured via mechanical treatment producing a structured fibrous web having an aged caliper of less than 1.5 mm, a vertical wicking height of at least 5 mm, a permeability of at least 10,000 cm²/(Pa·s) and a specific volume of at least 5 cm³/g. The structured fibrous web provides optimal **fluid** wicking and **fluid acquisition** capabilities and is directed toward **fluid** management applications. The structured fibrous web has a bio-based content of about 10 **percent** to about 100 **percent** using ASTM D6866-10, method B.

Classifications:

International (IPC 8-9): A61F A61F13/15 A61F13/49 A61F13/53 A61F13/532 A61F13/534 A61F13/537 A61F13/539 A61L15/26

A61L15/58 (Advanced/Invention);

A61F (Subclass/Invention)

CPC: A61F13/5323 A61F13/53708 A61F13/53747 A61F13/5376

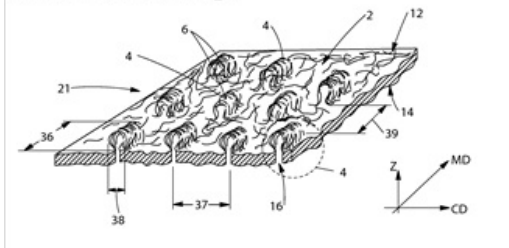
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European: A61F13/532B A61F13/537B A61F13/537C2 A61F13/537D

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US: 604/366

PatBase - US2012238978_AA



Family:

Publication number	Publication date	Application number	Application date
BR112013021968 A2	20161116	BR20131121968	20120228
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Priority:

US20110047892 20110315 WO2012US26883 20120228

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): BOND ERIC BRYAN ; COLLIAS DIMITRIS IOANNIS ; KELLETT PATTI JEAN ; PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO ; WEINBERGER ERIC PATTON ; WEISMAN PAUL THOMAS

Assignee(s): THE PROCTER AND GAMBLE COMPANY

Inventor(s): (std): WEISMAN PAUL THOMAS ; WEINBERGER ERIC PATTON ; KELLETT PATTI JEAN ; COLLIAS DIMITRIS IOANNIS ; COLLIAS DIMITRIS IOANNIS ; BOND ERIC BRYAN

Inventor(s): DIMITRIS IOANNIS COLLIAS ; ERIC BRYAN BOND ; ERIC PATTON WEINBERGER ; PATTI JEAN KELLETT ; PAUL THOMAS WEISMAN

Agent(s): DIMOCK STRATTON LLP; WILSON LUE LLP; LLOVET AHUMADA RAUL; KREMER VERONIQUE MARIE JOSEPHINE; NAGAI HIROSHI; THE PROCTER AND GAMBLE COMPANY

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 QA RO RS RU RW 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

Abstract: Disclosed is an **absorbent article** comprising an absorbent **core** with a crotch region and at least one waist region, whereby said crotch region has a lower ultimate **fluid** storage capability than said at least one waist region. The crotch region further comprises a high flux liquid distribution material having a flux at 12.4 cm of more than 0.075 g/cm²/sec.

International (IPC 8-9): A61F13/15 A61F13/45 A61F13/49 A61F13/53

A61F13/15 A61F5/44 (Advanced/Non-invention);

A61F13/15 (Core/Non-invention);

A61F (Subclass/Invention)

International (IPC 1-7): A61F13/15 A61F13/49 A61F13/53 A61F2/00
A61F5/44

CPC: A61F13/15203 A61F13/532 A61F13/5376

European: A61F13/15J A61F13/532 A61F13/537D

US: 604/369 604/375 604/378 604/385.01



Priority:

US19970005234 19970327 WO1997US05234 19970327

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): EHRNSPERGER BRUNO JOHANNES ; LAVON GARY DEAN ; NEUMANN FRANK ; PALUMBO GIANFRANCO ; PROCTER AND GAMBLE ; SCHMIDT MATTIAS ; YOUNG GERALD ALFRED

Assignee(s): THE PROCTOR AND GAMBLE COMPANY ; THE PROCTOR AND GAMBLE CO CINCINNATI OHIO ; PROCTOR AND GAMBLE CO ; THE PROCTOR AND GAMBLE COMPANY ; THE PROCTOR AND GAMBLE COMPANYUS ; PROCTOR AND GAMBLE CO ; THE PROCTOR AND GAMBLE CO ; THE PROCTOR AND

GAMBLE COMPANY CINCINNATI

Inventor(s): (std): YOUNG GERALD ALFRED ; YOUNG GERALD A ; YOUNG ALFRED ; SCHMIDT MATTIAS ; PALUMBO
GIANFRANCO ; NEUMANN FRANK ; LAVON GARY DEAN ; LAVON GARY D ; LAVON DEAN ;
EHRNSPERGER JOHANNES ; EHRNSPERGER BRUNO JOHANNES ; DEAN LAVON GARY ; YOUNG GERALD ;
LAVON GARY ; EHRNSPERGER BRUNO

Inventor(s): YOUNG GERALDALFRED ; BRUNO JOHANNES EHRNSPERGER ; EHRNSPERGER BRUNOJOHANNES ;
GIANFRANCO PALUMBO ; GERALD ALFRED YOUNG ; GARY DEAN LAVON ; FRANK NEUMANN ; MATTIAS
SCHMIDT ; LAVON GARYDEAN ; LAVON GARY DENA

Agent(s): SIM AND MCBURNEY; 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 GN GR HU IE IL IS IT JP KE KG KP KR KZ LC LI 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 SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU

Title: **FLUID PERMEABLE** STRUCTURED FIBROUS WEB

Abstract: The present disclosure is directed to a disposable **absorbent article** comprising a **fluid permeable** structured fibrous web, the fibrous web comprising thermally stable, fibers that are thermally bonded together using heat producing a base substrate that is thermally stable. The base substrate is textured via mechanical treatment producing a structured fibrous web having an aged caliper of less than 1.5 mm, a vertical wicking height of at least 5 mm, a permeability of at least 10,000 cm²/(Pa·s) and a specific volume of at least 5 cm³/g. The structured fibrous web provides optimal **fluid** wicking and the **fluid acquisition** capabilities and is directed toward **fluid** management applications.

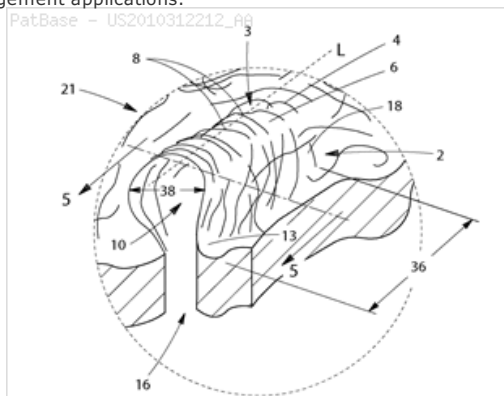
Classifications:

International (IPC 8-9): A61F13/15 A61F13/49 A61F13/53 D04H3/16 (Advanced/Invention)

CPC: A61F13/5376 A61F13/538 A61F2013/15373 A61F2013/15406 A61F2013/15487 A61F2013/15544 A61F2013/53721

European: A61F13/537D A61F13/538 K61F13/15J8D1 K61F13/15J8E K61F13/15J8P K61F13/15J8T K61F13/537B5

US: 604/378 604/378P



Family:

Publication number	Publication date	Application number	Application date
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WO10141577 A1	20101209	WO2010US37059	20100602

Priority:

US20090477462 20090603 EP20100727580 20100602 WO2010US37059 20100602

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): BOND ERIC BRYAN ; FROELICH UTE ; KRIPPNER CAROLA ; PROCTER AND GAMBLE

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

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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: STRUCTURED FIBROUS WEB

Abstract: A disposable **absorbent article** having a structured fibrous web, with thermally stable, hydrophilic fibers that are thermally bonded together using heat provides a base substrate that is thermally stable. The base substrate is textured via mechanical treatment to increase its thickness and optionally modified via over bonding to improve its mechanical and **fluid** handling properties. The structured fibrous web provides optimal **fluid** wicking and **fluid acquisition** capabilities and is directed toward **fluid** management applications. The structured fibrous web has a bio-based content of about 10 **percent** to about 100 **percent** using ASTM D6866-10, method B.

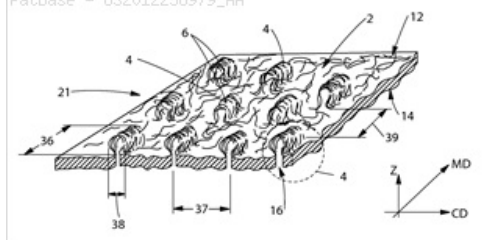
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CA2830208 AA	20130913	CA20122830208	20120306
CN103429278 A	20131204	CN201280013246	20120306
CN103429278 B	20150610	CN201280013246	20120306
EP2686023 A1	20140122	EP20120710605	20120306
JP2014512895 T2	20140529	JP20130558043T	20120306
JP5781635 B2	20150924	JP20130558043T	20120306
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