



New connection on: : 20-12-2012 : 10:43:33 - Last disconnection on: : 20-12-2012 : 10:43:12

V 3.2.0.32108(LP,U,z/Linux) (Rev:31790 2012-11-09 11:11:49 +0100#(D201239)) (RPM D201239)

Welcome to EPOQUE Rebuild under the Production Environment

[EPODOC: SS 3] ..ST

Disconnection from EPOQUE on: 20-12-2012 10:43:47 *Msg(1005)*

Session saved. *Msg(1006)*

[SS 3]



New connection on: : 07-06-2018 : 06:36:20 - Last disconnection on: : 07-06-2018 : 02:50:59

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

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[No database/cluster active] ..fi

Select a database: ..FI EPODOC



Database: EPODOC

[EPODOC: SS 1] Tissue and cellulosic and fibers and creping and curl and index

Results in EPODOC 0

[SS 2] Tissue and cellulosic and fibers and curl and index

Results in EPODOC 0

[SS 3] Tissue and cellulosic and fibers and creping

Results in EPODOC 28

[SS 4] Tissue and cellulosic and fibers and creping and curl

Results in EPODOC 0

[SS 5] Tissue and cellulosic and fibers and crepin

Results in EPODOC 0

[SS 6] Tissue and cellulosic and fibers and creping

Results in EPODOC 28

[SS 7] ..li



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PN - [US2010032113](#) A1 20100211

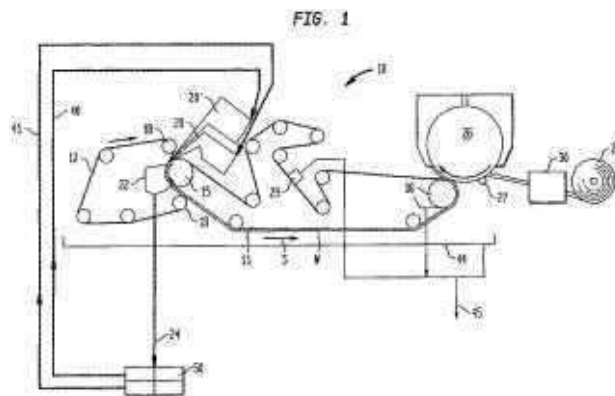
PNFP - US7731819 B2 20100608

PR - US20090587751
20091013; US20030405874
20030402; US20020374705P
20020423

AP - US20090587751 20091013

DT - **

CT - || STSE (B2)
[US7622020](#) B2 20091124 [
] (AWOFESO ANTHONY O
[US], et al)
[US2003131959](#) A1 20030717
[] (MARINACK ROBERT J [US],
et al)
[US2003196772](#) A1 20031023
[] (AWOFESO ANTHONY O
[US], et al)
[EP1157818](#) A1 20011128 [
] (MARINACK ROBERT J [US],
et al)
[EP1356923](#) A1 20031029 [
] (AWOFESO ANTHONY O
[US], et al)
- || R141 (A1)
[US2003131959](#) A1 [];



	<u>US2003196772</u> A1 [];
	<u>US7622020</u> B2 []
CCI	- <u>B31F1/126</u> ; <u>D21F11/006</u> ; <u>D21H15/02</u>
CCA	- <u>D21H25/005</u> ; <u>Y10T428/24455</u> ; <u>Y10T428/24479</u>
PA	- (B2) GEORGIA PACIFIC CONSUMER PROD [US]
TI	- (A1 B2) Method of making creped towel and tissue incorporating high yield fiber
AB	- (A1 B2) An absorbent sheet of cellulosic fiber typically includes at least about 15% by weight of high coarseness, generally tubular and lignin- rich cellulosic fiber based on the combined weight of cellulosic fiber in the sheet. Lignin-rich high coarseness, generally tubular fiber employed may be characterized by a coarseness of at least about 20 mg/100 m and an average length of 2 mm. The sheet is prepared by way of a process including applying a dewatered web to a heated rotating cylinder and creping the web from the heated cylinder with an undulatory creping blade. Preferred lignin-rich, high coarseness, generally tubular fibers include thermo and chemi mechanical pulps. A particularly preferred embodiment is a sheet including at least about 15% BCTMP.

PR - US19970955733 19971022; US19950443941 19950518

AP - US19970955733 19971022

DT - **

CT - || STSE (B1)
US5246544 A 19930921 [] (JAMES RIVER CORP [US]);
US5281307 A 19940125 [] (AIR PROD & CHEM [US])

CCI - B31F1/12 ; D21H21/146

CCA - D21H17/06 ; D21H17/07 ; D21H17/18 ; D21H17/36 ; D21H17/56 ; D21H21/22 ;
Y10T428/24446 ; Y10T428/24455 ; Y10T428/24463 ; Y10T428/31895 ; Y10T428/3188 ;
Y10T428/31884

PA - FORT JAMES CORP [US]

TI - Crosslinkable **creping** adhesive formulations

AB - Disclosed are adhesive formulations as **creping** process aids for producing an absorbent creped **cellulosic** sheet having a high level of surface-perceived softness that comprises continuously forming a web of **cellulosic** papermaking **fibers**, adhering said web to a thermal drying means by means of adhesive compositions comprising polymers having at least one primary or secondary amine group in the backbone such as chitosan, polyvinylamine, polyvinyl alcohol-vinyl amine and polyaminoamide in combination with crosslinking agents such as zirconium compounds having a valence of plus four including ammonium zirconium carbonate, zirconium acetylacetonate, zirconium acetate, zirconium carbonate, zirconium sulfate, zirconium phosphate, potassium zirconium carbonate, zirconium sodium phosphate and sodium zirconium tartrate and **creping** said treated web from said thermal drying means. In the method for producing the absorbent creped **cellulosic** sheets, the zirconium crosslinking agent is advantageously applied directly and separately on the Yankee dryer at the time the base polymer is applied to the surface. The crosslinking agent functions to crosslink the polymer to the fibrous web. The absorbent paper products are used as bathroom **tissue** and towels.

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PN - US2002045704 A1 20020418

PNFP - US6812281 B2 20041102

PR - US20010904102 20010713; US19950443941 19950518

AP - US20010904102 20010713

DT - **

CT - || STSE (B2)
US2577840 A 19511211 [] (UNION CARBIDE & CARBON CORP);
US5246548 A 19930921 [] (DEARBORN CHEMICALS CO [CA]);
EP0337310 A1 19891018 [] (AIR PROD & CHEM [US])

CCI - B31F1/12 ; D21H21/146

CCA - D21H17/06 ; D21H17/07 ; D21H17/18 ; D21H17/36 ; D21H17/56 ; D21H21/22 ;
Y10T428/24446 ; Y10T428/24455 ; Y10T428/24463 ; Y10T428/31895 ; Y10T428/3188 ;
Y10T428/31884

PA - (A1)
JAMES RIVER CORP [US]

- (B2)
FORT JAMES CORP [US]

TI - (A1 B2)
Crosslinkable **creping** adhesive formulations

AB - (A1 B2)
Disclosed are adhesive formulations as **creping** process aids for producing an absorbent creped **cellulosic** sheet having a high level of surface-perceived softness that comprises continuously forming a web of **cellulosic** papermaking **fibers**, adhering said web to a thermal drying means by means of adhesive compositions comprising polymers having at least one primary or secondary amine group in the backbone such as chitosan, polyvinylamine, polyvinyl alcohol-vinyl amine and polyaminoamide in combination with crosslinking agents such as dialdehydes or zirconium compounds having a valence of plus four including ammonium zirconium carbonate, zirconium acetylacetonate, zirconium acetate, zirconium carbonate, zirconium sulfate, zirconium phosphate, potassium zirconium carbonate, zirconium sodium phosphate and sodium zirconium tartrate and **creping** said treated web from said thermal drying means. In the method for producing the absorbent creped **cellulosic** sheets, the zirconium crosslinking agent is advantageously applied directly and separately on the Yankee dryer at the time the base polymer is applied to the surface. Alternatively, when using dialdehydes, the dialdehydes are mixed with the base polymer just prior to application to the Yankee dryer surface without having the crosslinking reaction take place with the base polymer prior to reaching the heated Yankee surface. These sheets are useful in the manufacture of **tissue** and towel.

4/28 © EPODOC / EPO

PN - US6017418 A 20000125

PR - US19970851657 19970506; US19960770929 19961223

AP - US19970851657 19970506

DT - **

CT - || STSE (A)
US4113934 A 19780912 [] (PANZER HANS PETER, et al);
US4432834 A 19840221 [] (WHITFIELD JOYCE M [US], et al);
US4720383 A 19880119 [] (DRACH JOHN E [US], et al);
US5399240 A 19950321 [] (GRAEF PETER A [US], et al);
US5399241 A 19950321 [] (ORIARAN T PHILIPS [US], et al);
US5494731 A 19960227 [] (FERESHTEHKHOU SAEED [US], et al);
US5552020 A 19960903 [] (SMITH MICHAEL J [US], et al);
US5695607 A 19971209 [] (ORIARAN T PHILIPS [US], et al)

CCI - D21F11/006 ; D21F11/14 ; D21F11/145 ; D21H21/20 ; D21H21/22

CCA - D21H13/14 ; D21H13/18 ; D21H13/24 ; D21H13/26 ; D21H17/07 ; D21H17/55 ;
Y10S977/70 ; Y10T428/24463

PA - FORT JAMES CORP [US]

TI - Hydrophilic, humectant, soft, pliable, absorbent paper and method for its manufacture

AB - Hydrophilic, humectant, soft, pliant, single-ply or multiply absorbent papers in the form of napkin, towel, bathroom **tissue** or facial **tissue** are disclosed. These humectant paper products are formed by supplying a furnish to headbox comprising: **Cellulosic**

papermaking fiber consisting essentially of recycle fiber, hardwood fiber, softwood fiber, and mixtures thereof; and optionally up to 50% synthetic **fibers** and ad a softener which has a melting range of about 0 DEG -40 DEG C. wherein the softener comprises an imidazoline moiety formulated in organic compounds selected from the group consisting of alkoxylated aliphatic polyols, alkoxylated aliphatic diols, aliphatic polyols, aliphatic diols and a mixture of these compounds, wherein the process of adding the softener is controlled to retain a ratio of the average particle size of dispersed softener to the average fiber diameter in the range of about 0.01 to 15 percent: wet pressing said nascent web, **creping** said web from said Yankee, and recovering the paper products.

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- PN - [US5961782](#) A 19991005
- PR - US19970834498 19970404; US19950443941 19950518
- AP - US19970834498 19970404
- DT - **
- CT - || STSE (A)
[US4016129](#) A 19770405 [] (KANSAI PAINT CO LTD);
[US5246544](#) A 19930921 [] (JAMES RIVER CORP [US]);
[US5281307](#) A 19940125 [] (AIR PROD & CHEM [US])
- CCI - [B31F1/12](#) ; [D21H21/146](#)
- CCA - [D21H17/06](#) ; [D21H17/07](#) ; [D21H17/18](#) ; [D21H17/36](#) ; [D21H17/56](#) ; [D21H21/22](#) ;
[Y10T428/24446](#) ; [Y10T428/24455](#) ; [Y10T428/24463](#) ; [Y10T428/31895](#) ; [Y10T428/3188](#) ;
[Y10T428/31884](#)
- PA - FORT JAMES CORP [US]
- TI - Crosslinkable **creping** adhesive formulations
- AB - Disclosed are adhesive formulations as **creping** process aids for producing an absorbent creped **cellulosic** sheet having a high level of surface-perceived softness that comprises continuously forming a web of **cellulosic** papermaking **fibers**, adhering said web to a thermal drying means by means of adhesive compositions comprising polymers having at least one primary or secondary amine group in the backbone such as chitosan, polyvinylamine, polyvinyl alcohol-vinyl amine and polyaminoamide in combination with crosslinking agents such as dialdehydes or zirconium compounds having a valence of plus four including ammonium zirconium carbonate, zirconium acetylacetonate, zirconium acetate, zirconium carbonate, zirconium sulfate, zirconium phosphate, potassium zirconium carbonate, zirconium sodium phosphate and sodium zirconium tartrate and **creping** said treated web from said thermal drying means. In the method for producing the absorbent creped **cellulosic** sheets, the zirconium crosslinking agent is advantageously applied directly and separately on the Yankee dryer at the time the base polymer is applied to the surface. Alternatively, when using dialdehydes, the dialdehydes are mixed with the base polymer just prior to application to the Yankee dryer surface without having the crosslinking reaction take place with the base polymer prior to reaching the heated Yankee surface. These sheets are useful in the manufacture of **tissue** and towel.

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PN - US5215626 A 19930601

PR - US19910732846 19910719

AP - US19910732846 19910719

DT - **

CT - US2826551 A []; US3301746 A [];
US3438807 A []; US3484275 A [];
US3755071 A []; US3755220 A [];
US3812000 A []; US3814096 A [];
US3818533 A []; US3821068 A [];
US3844880 A []; US3964500 A [];
US3967030 A []; US3974025 A [];
US3994771 A []; US4028172 A [];
US4112167 A []; US4158594 A [];
US4191609 A []; US4300981 A [];
US4355021 A []; US4376149 A [];
US4395454 A []; US4408996 A [];
US4447294 A []; US4469840 A [];
US4481243 A []; US4513051 A [];
US4614675 A []; US4637859 A [];
US4795530 A []; US4902739 A [];
US4940513 A []; US4950545 A [];
US4959125 A []; US5059282 A [];
CA899223 A []; EP0144658 A1 [];
EP0347153 A2 []; DE3420940 A1 []

CCI - D21H25/06 ; D21H17/59 ; D21H23/50

PA - PROCTER & GAMBLE [US]

TI - PROCESS FOR APPLYING A POLYSILOXANE TO **TISSUE**PAPER

AB - Disclosed is a process for making soft **tissue** paper which includes the steps of wet-laying **cellulosic fibers** to form a web; drying the web and elevating the web temperature, **creping** the hot web, and applying low levels of a polysiloxane material to the hot, creped web. Preferably, the hot web is dried to a moisture level below its equilibrium moisture content before application of the polysiloxane material. The process may further include the steps of applying an effective amount of a surfactant material to enhance softness and/or wettability control; and/or an effective amount of a binder material such as starch, for linting control, and/or to contribute tensile strength to the **tissue** paper.

7/28 © EPODOC / EPO

PN - US5164046 A 19921117

PR - US19910700351 19910507; US19890299912 19890119

AP - US19910700351 19910507

DT - *; Rep

CT - || STSE (A)
US2826551 A 19580311 [] (GEEN HENRY C);
US3301746 A 19670131 [] (SANFORD LAWRENCE H, et al);
US3438807 A 19690415 [] (PIKULA JOSEPH E);

US3484275 A 19691216 [] (LEWICKI WALTER J JR);
US3598622 A 19710810 [] (MAHER THOMAS KEARNEY, et al);
US3755071 A 19730828 [] (BEY A, et al);
US3755220 A 19730828 [] (FREIMARK B, et al);
US3812000 A 19740521 [] (SALVUCCI J, et al);
US3814096 A 19740604 [] (WEISS F, et al);
US3818533 A 19740625 [] (SCHEUER F);
US3821068 A 19740628 [] (SHAW D);
US3844880 A 19741029 [] (MEISEL F, et al);
US3964500 A 19760622 [] (DRAKOFF RAYMOND);
US3967030 A 19760629 [] (JOHNSON GORDON CARLTON, et al);
US3974025 A 19760810 [] (AYERS PETER G);
US3994771 A 19761130 [] (MORGAN JR GEORGE, et al);
US4028172 A 19770607 [] (MAZZARELLA EMIL D);
US4112167 A 19780905 [] (DAKE TIMOTHY WILLIAM, et al);
US4158594 A 19790619 [] (BECKER HENRY E, et al);
US4191609 A 19800304 [] (TROKHAN PAUL D [US]);
US4300981 A 19811117 [] (CARSTENS JERRY E);
US4355021 A 19821019 [] (MAHL MEARL C, et al);
US4376149 A 19830308 [] (MARTIN EUGENE R);
US4395454 A 19830726 [] (BALDWIN A FRANK);
US4441962 A 19840410 [] (OSBORN III THOMAS W [US]);
US4447294 A 19840508 [] (OSBORN III THOMAS W [US]);
US4469840 A 19840904 [] (ALBERTS HEINRICH [DE], et al);
US4481243 A 19841106 [] (ALLEN PATRICK J [US]);
US4513051 A 19850423 [] (LAVASH BRUCE W [US]);
US4637859 A 19870120 [] (TROKHAN PAUL D [US]);
US4795530 A 19890103 [] (SOERENS DAVE A [US], et al);
US4950545 A 19900821 [] (WALTER REBECCA S [US], et al);
CA899223 A 19720502 [] (MEYER MELVIN H);
EP0144658 A1 19850619 [] (ENDRES DAN D [US]);
DE3420940 A1 19850117 [] (HARA KENJI [JP], et al);
WO8200485 A1 19820218 [] (LIM Y [US]);
GB849433 A 19600928 []

- CTNP - [] Applications of ArmaK Quaternary Ammonium Salts , Bulletin
76 17, ArmaK Company (1977)
[] U.S. Ser. No. 206,621 filed Jun. 14, 1988, Ampulski et al
[] U.S. Ser. No. 280,086 filed Dec. 5, 1988, Spendel
[] U.S. Ser. No. 280,119 filed Dec. 5, 1988, Spendel
- CCI - D21H23/50 ; D21H17/59
- CCA - Y10T428/24455
- PA - PROCTER & GAMBLE [US]
- TI - Method for making soft **tissue** paper using polysiloxane compound
- AB - A process for making soft **tissue** paper which includes the steps of wet-laying **cellulosic fibers** to form a web, applying to the wet web, at a fiber consistency level of from about 10% to about 80%, a polysiloxane material, and then drying and **creping** the web to form the finished **tissue** paper. The process may further include the steps of applying an effective amount of a surfactant material to enhance softness and/or wettability

control; and/or an effective amount of a binder material, such as starch, for linting control, and/or to contribute tensile strength to the **tissue** paper.

8/28 © EPODOC / EPO

- PN - [US6203664](#) B1 20010320
- PR - US20000578169 20000524; US19990264575 19990308; US19970851657 19970506; US19960770929 19961223
- AP - US20000578169 20000524
- DT - **
- CT - || STSE (B1)
[US4113934](#) A 19780912 [] (PANZER HANS PETER, et al);
[US4432834](#) A 19840221 [] (WHITFIELD JOYCE M [US], et al);
[US4720383](#) A 19880119 [] (DRACH JOHN E [US], et al);
[US5399240](#) A 19950321 [] (GRAEF PETER A [US], et al);
[US5399241](#) A 19950321 [] (ORIARAN T PHILIPS [US], et al);
[US5494731](#) A 19960227 [] (FERESHTEHKHOU SAEED [US], et al);
[US5552020](#) A 19960903 [] (SMITH MICHAEL J [US], et al);
[US5695607](#) A 19971209 [] (ORIARAN T PHILIPS [US], et al)
- CCI - [D21F11/006](#) ; [D21F11/14](#) ; [D21F11/145](#) ; [D21H21/20](#) ; [D21H21/22](#)
- CCA - [D21H13/14](#) ; [D21H13/18](#) ; [D21H13/24](#) ; [D21H13/26](#) ; [D21H17/07](#) ; [D21H17/55](#) ;
[Y10S977/70](#) ; [Y10T428/24463](#)
- PA - FORT JAMES CORP [US]
- TI - Hydrophilic, humectant, soft, pliable, absorbent paper having wet strength agents
- AB - The invention relates to hydrophilic, humectant, soft, pliant, single-ply or multi-ply absorbent papers in the form of a bathroom **tissue**. These humectant paper products are formed by supplying a furnish to headbox comprising: **Cellulosic** papermaking fiber consisting essentially of recycle fiber, hardwood fiber, softwood fiber, and mixtures thereof; and optionally up to 50% synthetic **fibers** and a softener which has a melting range of about 0 DEG -40 DEG C. wherein the softener comprises an imidazoline moiety formulated in organic compounds selected from the group consisting of alkoxyated aliphatic polyols, alkoxyated aliphatic diols, aliphatic polyols, aliphatic diols and a mixture of these compounds, wherein the process of adding the softener is controlled to retain a ratio of the average particle size of dispersed softener to the average fiber diameter in the range of about 0.01 to 15 percent: wet pressing said nascent web, **creping** said web from said Yankee, and recovering the paper products. These products are also suitably prepared using through drying methods with or without the use of a Yankee Dryer, and the products exhibit a unique combination of properties designed to appeal to consumer preferences. In many applications, these products not to be creped, and in that case they do not have the serpentine configuration.

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- PN - [US6699359](#) B1 20040302
- PR - US20000496823 20000202; US19970955733 19971022; US19950443941 19950518
- AP - US20000496823 20000202
- DT - **

CT - || STSE (B1)
US5246544 A 19930921 [] (HOLLENBERG DAVID H [US], et al);
US5281307 A 19940125 [] (SMIGO JOHN G [US], et al)

CCI - B31F1/12 ; D21H21/146

CCA - D21H17/06 ; D21H17/07 ; D21H17/18 ; D21H17/36 ; D21H17/56 ; D21H21/22 ;
Y10T428/24446 ; Y10T428/24455 ; Y10T428/24463

PA - FORT JAMES CORP [US]

TI - Crosslinkable **creping** adhesive formulations

AB - Disclosed are adhesive formulations as **creping** process aids for producing an absorbent creped **cellulosic** sheet having a high level of surface-perceived softness that comprises continuously forming a web of **cellulosic** papermaking **fibers**, adhering said web to a thermal drying means by means of adhesive compositions comprising polymers having at least one primary or secondary amine group in the backbone such as chitosan, polyvinylamine, polyvinyl alcohol-vinyl amine and polyaminoamide in combination with crosslinking agents such as zirconium compounds having a valence of plus four including ammonium zirconium carbonate, zirconium acetylacetonate, zirconium acetate, zirconium carbonate, zirconium sulfate, zirconium phosphate, potassium zirconium carbonate, zirconium sodium phosphate and sodium zirconium tartrate and **creping** said treated web from said thermal drying means. In the method for producing the absorbent creped **cellulosic** sheets, the zirconium crosslinking agent is advantageously applied directly and separately on the Yankee dryer at the time the base polymer is applied to the surface. The crosslinking agent functions to crosslink the polymer to the fibrous web. The absorbent paper products are used as bathroom **tissue** and towels.

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PN - US6689250 B1 20040210

PR - US20000496821 20000202; US19970955733 19971022; US19950443941 19950518

AP - US20000496821 20000202

DT - *; Rep

CT - || STSE (B1)
US5246544 A 19930921 [] (HOLLENBERG DAVID H [US], et al);
US5281307 A 19940125 [] (SMIGO JOHN G [US], et al)

CCI - B31F1/12 ; D21H21/146

CCA - D21H17/06 ; D21H17/07 ; D21H17/18 ; D21H17/36 ; D21H17/56 ; D21H21/22 ;
Y10T428/24446 ; Y10T428/24455 ; Y10T428/24463

PA - FORT JAMES CORP [US]

TI - Crosslinkable **creping** adhesive formulations

AB - Disclosed are adhesive formulations as **creping** process aids for producing an absorbent creped **cellulosic** sheet having a high level of surface-perceived softness that comprises continuously forming a web of **cellulosic** papermaking **fibers**, adhering said web to a thermal drying means by means of adhesive compositions comprising polymers having at least one primary or secondary amine group in the backbone such as chitosan, polyvinylamine, polyvinyl alcohol-vinyl amine and polyaminoamide in combination with crosslinking agents such as zirconium compounds having a valence