



(51) International Patent Classification:

D21H 27/40 (2006.01) *D21H* 27/22 (2006.01)
D21H 27/38 (2006.01) *B32B* 29/00 (2006.01)

(21) International Application Number:

PCT/IB2012/051464

(22) International Filing Date:

27 March 2012 (27.03.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/473,618 8 April 2011 (08.04.2011) US
13/424,663 20 March 2012 (20.03.2012) US

(71) Applicant (for all designated States except US): **KIMBERLY-CLARK WORLDWIDE, INC.** [US/US]; Neenah, WI 54956 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DRUECKE, Frank, Gerald** [US/US]; 4730 Old Oak Road, Oshkosh, WI 54904 (US). **SOERENS, Dave, Allen** [US/US]; 736 Kensington Road, Neenah, WI 54956 (US). **KRUCHOSKI, Benjamin, Joseph** [US/US]; N9635 Clover Ridge Trail, Appleton, WI 54915 (US). **LANG, Frederick, John** [US/US]; 1541 Whitetail Drive, Neenah, WI 54956 (US). **SATORI, Christopher, Lee** [US/US]; 222 Brookwood Drive, Hortonville, WI 54944 (US). **WERNER IV, John, Alexander** [US/US]; W8869 School Road, Hortonville,

WI 54944 (US). **UTTECHT, Cathleen, Mae** [US/US]; 1605 Eugene Street, Menasha, WI 54952 (US). **AUTHEMENT, Mickey, Joseph, II** [US/US]; W5893 Sweet Clover Drive, Appleton, WI 54915 (US). **CARSON, Peter, Lee** [GB/US]; 2218 W. Barley Way, Appleton, WI 54913 (US). **BRUNETTE, Jeremy, Michael** [US/US]; 1395 Inverness Lane, Neenah, WI 54956 (US). **ZWICK, Kenneth, John** [US/US]; 730 Congress Place, Neenah, WI 54956 (US). **BRADLEY, Elizabeth, Oriel** [US/US]; 280 Muttart Road, Neenah, WI 54956 (US).

(74) Agents: **SULLIVAN, Michael, J.** et al.; 2300 Winchester Road, Neenah, WI 54956 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,

[Continued on next page]

(54) Title: SOFT CREPED TISSUE HAVING SLOW WET OUT TIME

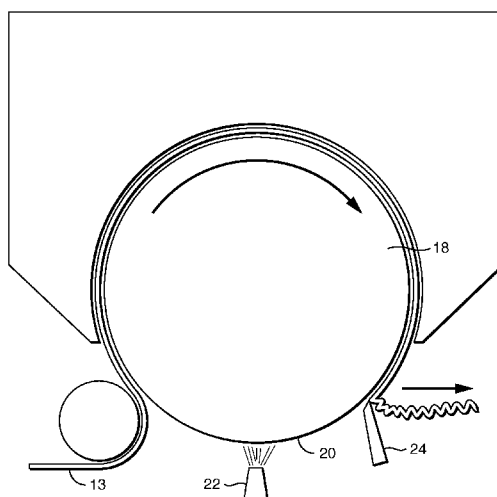


FIG. 1

(57) Abstract: The present disclosure relates generally to a tissue product having a creping composition disposed onto at least one surface thereof to increase the softness of the article, while retaining or improving manufacturing efficiency. The tissue products also have a sizing agent that increases the Wet Out time, without negatively impacting softness or machine runability. Preferably the creping composition comprises a cationic component and a film forming component, both of which are preferably water soluble. The cationic component carries a cationic charge that is capable of forming ionic bonds with the negatively charged fibers of the tissue web, thus providing a retention mechanism by which the creping composition is retained on the sheet. The overall retention of the creping composition on the sheet reduces the concentration of the composition in the machine process water, improving machine operability and runability.





LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

Published:

— with international search report (Art. 21(3))

(88) Date of publication of the international search report:

27 December 2012

A. CLASSIFICATION OF SUBJECT MATTER***D21H 27/40(2006.01)i, D21H 27/38(2006.01)i, D21H 27/22(2006.01)i, B32B 29/00(2006.01)i***

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

D21H 27/40; D21H 17/71; B32B 3/00; C08J 3/00; D21H 19/74; B31F 1/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: creped tissue web, fine crepe structure, COV, HST value, Fuzz on Edge, water soluble extractives, cationic component, sizing agent, styrene/acrylic acid ester copolymer

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2010-0155004 A1 (SOERENS DAVE A. et al.) 24 June 2010 See claims1,5-7 paragraphs[0101][0173] TABLES4,5	1-20
A	US 2004-0144510 A1 (DIRK MAULER) 29 July 2004 See claims1,20,22 paragraph[0106]	1-20
A	US 2006-0207735 A1 (JOHN BLANZ et al.) 21 September 2006 See claims1,21 paragraphs[0036][0041]	1-20
A	US 2004-0062907 A1 (JEFFREY DEAN LINDSAY et al.) 01 April 2004 See claims1-16 paragraph[0007]	1-20



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See patent family annex.

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Date of the actual completion of the international search

25 OCTOBER 2012 (25.10.2012)

Date of mailing of the international search report

29 OCTOBER 2012 (29.10.2012)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
189 Cheongsu-ro, Seo-gu, Daejeon Metropolitan
City, 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

SHIN, JU CHEOL

Telephone No. 82-42-481-8656



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/IB2012/051464

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