(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 1 April 2004 (01.04.2004)

PCT

(10) International Publication Number WO 2004/027148 A3

(51) International Patent Classification⁷: // 17:07, 21:22

D21H 17/71

(21) International Application Number:

PCT/US2003/029838

(22) International Filing Date:

18 September 2003 (18.09.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10/251,295

20 September 2002 (20.09.2002) US

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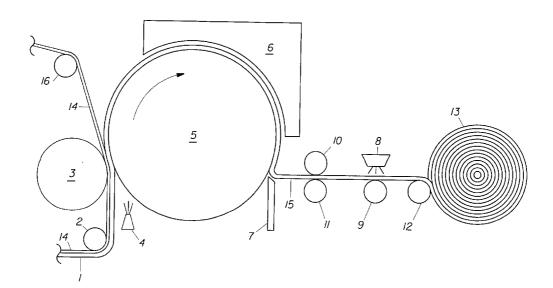
- (81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU,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

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 29 July 2004

[Continued on next page]

(54) Title: PAPER SOFTENING COMPOSITIONS CONTAINING QUATERNARY AMMONIUM COMPOUND AND HIGH LEVELS OF FREE AMINE AND SOFT TISSUE PAPER PRODUCTS COMPRISING SAID COMPOSITIONS



(57) Abstract: Disclosed is a composition for softening an absorbent tissue comprising a quaternary ammonium softening active ingredient; free amine compounds at a level such that the softening composition has a tertiary to quaternary amine ratio greater than about 0.06 and less than about 0.2; and a vehicle in which said softening active ingredient is dispersed. Also disclosed is a tissue paper product having such a composition deposited thereon.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

national Application No

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 D21H17/71 //D21H17:07,21:22 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) IPC 7 D21H Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. χ WO 00/68502 A (GOLDSCHMIDT CHEMICAL 1,2,7 COMPANY) 16 November 2000 (2000-11-16) the whole document 3-6,8-10US 4 144 122 A (EMANUELSSON JAN G ET AL) χ 1,7 13 March 1979 (1979-03-13) column 1 - column 4 US 6 162 329 A (WARD RICHARD MARTIN ET Α 1,2,4,6, AL) 19 December 2000 (2000-12-19) cited in the application the whole document WO 00/22231 A (PROCTER & GAMBLE) 1,2,4-720 April 2000 (2000-04-20) cited in the application the whole document Further documents are listed in the continuation of box C. Patent family members are listed in annex. ° Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document referring to an oral disclosure, use, exhibition or document is combined with one or more other such docu-ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed in the art. "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 7 June 2004 15/06/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016 Nestby, K

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