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| <b>(51) International Patent Classification <sup>6</sup> :</b><br><b>D21H 27/40, 27/38, B32B 29/00 // B31F 1/12, D21H 11:04, 17:14, 17:27, 17:29, 21:22, 23:76</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>A1</b> | <b>(11) International Publication Number:</b> <b>WO 96/17128</b><br><b>(43) International Publication Date:</b> 6 June 1996 (06.06.96)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>(21) International Application Number:</b> PCT/US95/15814<br><b>(22) International Filing Date:</b> 1 December 1995 (01.12.95)<br><b>(30) Priority Data:</b><br>08/348,434                      2 December 1994 (02.12.94)                      US<br><b>(71) Applicant:</b> THE PROCTER & GAMBLE COMPANY<br>[US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US).<br><b>(72) Inventors:</b> VINSON, Kenneth, Douglas; 6816 Leeds Lane West, Cincinnati, OH 45215 (US). WEISMAN, Paul, Thomas; 9967 Indiana Springs Drive, Cincinnati, OH 45241 (US). PHAN, Dean, Van; 6512 Tylers Crossing, West Chester, OH 45069 (US).<br><b>(74) Agents:</b> REED, T., David et al.; The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217 (US).                      |           | <b>(81) Designated States:</b> AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, <u>SG</u> , SI, SK, TJ, TM, TT, UA, UG, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, LS, MW, SD, SZ, UG).<br><br><b>Published</b><br><i>With international search report.</i><br><i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> |
| <b>(54) Title:</b> SOFT AND CREPED TISSUE PAPER<br><br><b>(57) Abstract</b><br><br><p>Soft creped tissue paper products comprising papermaking fibers and a biodegradable crepe facilitating composition is disclosed. The crepe facilitating composition is a biodegradable bonding inhibitor, a cationic starch and a carboxymethyl cellulose. Preferably, the biodegradable bonding inhibitor is a biodegradable quaternary ammonium compound. The use of a biodegradable bonding inhibitor, a cationic starch and a carboxymethyl cellulose results in creped tissue paper that is both strong and soft. A creped paper process comprising the addition of the crepe facilitating composition is also disclosed. The composition offers the potential to improve production capacity.</p> |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |