

9905431-4



IP05

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C09J 201/02, D21H 27/32		(11) International Publication Number: WO 98/50481
A1		(43) International Publication Date: 12 November 1998 (12.11.98)
(21) International Application Number: PCT/US98/09148		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, 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).
(22) International Filing Date: 8 May 1998 (08.05.98)		
(30) Priority Data: ① 60/046,118 / 9 May 1997 (09.05.97) / US		
(71) Applicant: ① THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US).		
(72) Inventors: ① BOUTILIER, Glenn, David; 10566 Stablehand Drive, Cincinnati, OH 45242 (US). ② BARFORD, Brian, Dale; 8002 Quail Hollow Court, West Chester, OH 45069 (US). ③ BOATMAN, Donn, Nathan; 7536 Carole Lane, Florence, KY 41042 (US). ④ KRAUS, Christopher, Scott; 8907 Yorkridge Road, Guilford, IN 47022 (US). PEKEL, Rhonda, Lee; Apartment #2, 1208 Wareham Drive, Cincinnati, OH 45202 (US). ⑤ WEGELE, George, Vincent; 5638 Macey Avenue, Cincinnati, OH 45227 (US).		
(74) Agents: REED, T., David et al.; The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217 (US).		Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

1 PD. IPC: C09J 201/02
 1 appl'n. IPER
 6 INVS. 16/11/98

(54) Title: ADHESIVE COMPOSITION PROVIDING A SIGNAL MEANS AND ADHESIVELY LAMINATED PAPER PRODUCT

(57) Abstract

An adhesive composition for laminating multi-ply absorbent paper products is disclosed. The adhesive composition includes a dry strength binder material, a cationic wet strength resin, and an anionically stabilized titanium dioxide slurry. The cationic wet strength resin is made compatible with the anionically stabilized titanium dioxide slurry by adjusting the pH of the wet strength resin such that it is greater than the isoelectric point of the slurry before the wet strength resin is added to the adhesive composition. Methods of producing the adhesive composition and of laminating absorbent paper products using the adhesive composition are also disclosed.