

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number
WO 2005/094749 A3

- (51) International Patent Classification⁷: **A61L 15/26**, C08L 101/00, A61L 15/18, 15/60
- (21) International Application Number: PCT/US2005/010458
- (22) International Filing Date: 28 March 2005 (28.03.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 04007523.6 29 March 2004 (29.03.2004) EP
- (71) Applicant (for all designated States except US): **THE PROCTER & GAMBLE COMPANY** [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **BORGSMANN, Carolin, Michaela** [DE/DE]; Langer Weg 44, 65760 Eschborn (DE). **LINDNER, Torsten** [DE/DE]; Im Wiesental 17, 61476 Kronberg (DE).
- (74) Common Representative: **THE PROCTER & GAMBLE COMPANY**; c/o Reed, T., David, The Procter & Gamble Company, Winton Hill Business Center, 6110 Center Hill Road, Cincinnati, OH 45224 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, 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, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- (88) Date of publication of the international search report:
30 March 2006
- 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.

(54) Title: ABSORBENT MEMBER FOR ABSORBENT ARTICLES COMPRISING SWELLABLE POLYMERS OF HIGH PERMEABILITY WHICH ARE CAPABLE OF FORMING HYDROGELS

(57) Abstract: The present invention relates to absorbent members in absorbent cores for absorbent articles, which are intended to receive and retain bodily discharges such as urine. Such articles are disposable hygiene articles like baby diapers, training pants, adult incontinence articles, feminine care articles and the like. The improvement essentially is based on the recognition that replacing most or all of the cushioning fibrous absorbent material in an absorbent core by a liquid storage material capable of retaining liquid while maintaining or improving acquisition behavior is desirable as the reduction in cushioning is more than compensated by the gain in comfort. The absorbent core of the absorbent member comprises a swellable hydrogel-forming polymer comprising in combination at least one hydrophilic polymer with dendritic structure and at least one water-insoluble phosphate.



WO 2005/094749 A3