



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : A61F 13/15	A1	(11) International Publication Number: WO 99/55265 (43) International Publication Date: 4 November 1999 (04.11.99)
--	-----------	--

(21) International Application Number: PCT/IB99/00751

(22) International Filing Date: 23 April 1999 (23.04.99)

(30) Priority Data:
PCT/US98/08515 28 April 1998 (28.04.98) US

(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): ARNDT, Silke [DE/DE]; Kiesstrasse 65, D-64283 Darmstadt (DE). EHRNSPERGER, Bruno, Johannes [DE/DE]; Westerbachstrasse 89, D-65936 Frankfurt (DE). SCHMIDT, Mattias [DE/DE]; Altkoenigweg 3, D-65510 Idstein (DE). LAVON, Gary, Dean [US/US]; 7320 Canterbury Court, Middletown, OH 45044 (US). NEUMANN, Frank [DE/US]; 732 South Crescent Avenue, Cincinnati, OH 45299 (US). LINK, Andrea, Lieselotte [DE/DE]; Altkoenigstrasse 24, D-65824 Schwalbach (DE).

(74) Agents: REED, T., David et al.; The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217-1087 (US).

(81) Designated States: AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, 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, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, 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, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: ABSORBENT ARTICLES WITH DISTRIBUTION MATERIALS POSITIONED UNDERNEATH STORAGE MATERIAL

(57) Abstract

The present invention relates to an absorbent article, such as for use in hygienic applications, which has an ultimate fluid storage region, and a fluid distribution region positioned between the ultimate storage region and the garment oriented surface of the article, which is in fluid communication with the ultimate fluid storage region, whereby the ultimate fluid storage region comprises material which has (1) a Capillary Sorption Desorption Capacity at 100 cm (CSDC 100) of at least 10 g/g; which further has (2) a Capillary Sorption Desorption Capacity at 0 cm (CSDC 0) higher than said CSDC 100 and which thereby has (3) a Loosely Bound Liquid Capacity (LBLC) as the difference between (CSDC 0 and CSDC 100); and which has (4) a Capillary Sorption Desorption Release Height when 50 % of said LBLC are released (CSDRH 50) of less than 60 cm. Further, the liquid distribution layer comprises material having a Capillary Sorption Absorption Height at 30 % of its maximum capacity (CSAH 30) of at least 35 cm. Particularly suitable distribution material for the present invention can be foam materials, preferably polymeric foam derived from high internal phase water-in-oil emulsions.

