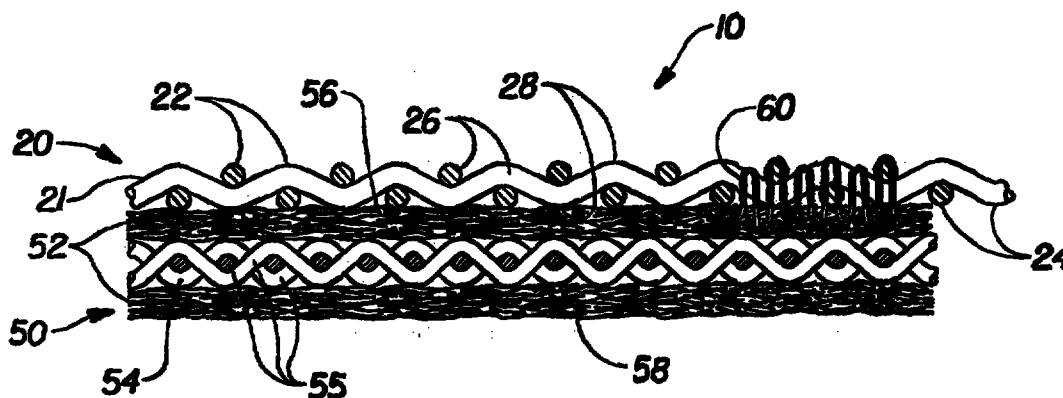




## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| <b>(51) International Patent Classification <sup>6</sup>:</b><br><b>D21F 11/00, 7/08</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>A1</b> | <b>(11) International Publication Number:</b> <b>WO 99/66124</b><br><b>(43) International Publication Date:</b> 23 December 1999 (23.12.99)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>(21) International Application Number:</b> PCT/US99/13076<br><b>(22) International Filing Date:</b> 9 June 1999 (09.06.99)<br><b>(30) Priority Data:</b><br>09/100,624 19 June 1998 (19.06.98) US<br><b>(71) Applicant:</b> THE PROCTER & GAMBLE COMPANY<br>[US/US]; One Procter & Gamble Plaza, Cincinnati, OH<br>45202 (US).<br><b>(72) Inventor:</b> PHAN, Dean, Van; 6512 Tyler's Crossing, West<br>Chester, OH 45069 (US).<br><b>(74) Agents:</b> REED, T., David et al.; The Procter & Gamble<br>Company, 5299 Spring Grove Avenue, Cincinnati, OH<br>45217-1087 (US). |           | <b>(81) Designated States:</b> AE, AL, AM, AT, AT (Utility model), AU,<br>AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ<br>(Utility model), DE, DE (Utility model), DK, DK (Utility<br>model), EE, EE (Utility model), ES, FI, FI (Utility model),<br>GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,<br>KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG,<br>MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,<br>SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA,<br>UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE,<br>LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ,<br>BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE,<br>CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,<br>NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,<br>GN, GW, ML, MR, NE, SN, TD, TG).<br><br><b>Published</b><br><i>With international search report.</i> |

(54) Title: APPARATUS FOR MAKING STRUCTURED PAPER



## (57) Abstract

A papermaking belt (10) for dewatering and imprinting a paper web. The belt comprises two laminates (20, 50) joined together in a face to face relationship to form a unitary laminate. The first lamina (20) comprises a foraminous imprinting member (21) which may serve as a reinforcing structure (23) for a patterned framework (40). The second lamina (50) comprises a secondary base and a batting (52) which is joined to the secondary base to form a dewatering felt. The two laminates (20, 50) are juxtaposed and attached such that batting from the second lamina extends through the foraminous imprinting member of the first lamina providing a hydraulic connection therebetween.