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(21) International Application Number: PCT/US96/19126 (22) International Filing Date: 27 November 1996 (27.11.96) (30) Priority Data: 08/572,805 15 December 1995 (15.12.95) US (71) Applicant: THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US). (72) Inventors: YOUNG, Terrill, Alan; 2607 Mount Airy Avenue, Cincinnati, OH 45239 (US). BERG, Charles, John, Jr.; 208 Hillcrest Drive, Wyoming, OH 45215 (US). (74) Agents: REED, T., David et al.; The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217 (US).		(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, HU, 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, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, 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). Published <i>With international search report.</i>
(54) Title: IMPROVED SHEET PRODUCTS FOR USE IN A POP-UP DISPENSER AND METHOD FOR FORMING (57) Abstract An improved method is disclosed for forming a strata of overlapping sheets (S1-S3) suitable for use in a pop-up dispensing system. The sheets (S1, S3) are cut from ribbons (R31-R33) having at least one side edge which has a knee-like protrusion (11, 211) with the opposing side edge being either, substantially parallel to the longitudinal axis (L2) of the ribbon (R31), or having one or more knee-like protrusions (11, 211) formed on the opposing edge. The ribbons (R31-R33) are then phased so that the knee-like protrusion (11) on one edge aligns with either the essentially parallel edge of an adjoining ribbon or a knee-like protrusion (11) on the side edge of the adjoining ribbon. Phasing can be accomplished by either, aligning knee-like protrusions (11, 211) on the side edges of adjoining ribbons (R31, R32) or reversing the orientation of the side edges of alternating ribbons (R31-R33). After phasing, the ribbons (R31-R33) are overlapped creating a series of predetermined areas of greatest overlap (14) adjoining areas of least overlap (12) such that successive ribbons (R31-R33) are bonded only by the interfacial interaction between ribbons (R31-R33). By overlapping multiple ribbons (R31-R33) in this manner a strata is formed which is then folded to interleave the ribbons (R31-R33). A resulting stack of interleaved ribbons (R31-R33) is cut to form blocks of individual interleaved sheets. The process can be accomplished manually or in a continuous production process.		