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| <b>(51) International Patent Classification 6 :</b><br><b>A47K 10/38</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>A1</b> | <b>(11) International Publication Number:</b> <b>WO 97/21377</b><br><b>(43) International Publication Date:</b> 19 June 1997 (19.06.97)                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>(21) International Application Number:</b> PCT/GB96/03101<br><b>(22) International Filing Date:</b> 13 December 1996 (13.12.96)<br><b>(30) Priority Data:</b><br>9525506.3 14 December 1995 (14.12.95) GB<br><b>(71) Applicant (for all designated States except US):</b> KIMBERLY-CLARK LIMITED [GB/GB]; Larkfield, Aylesford, Kent ME20 7PS (GB).<br><b>(72) Inventor; and</b><br><b>(75) Inventor/Applicant (for US only):</b> KING, Tim [GB/GB]; Rose Cottage, Off Francis Road, Moss, Nr. Wrexham, Clwyd LL11 6EM (GB).<br><b>(74) Agent:</b> FRANK B. DEHN & CO.; 179 Queen Victoria Street, London EC4V 4EL (GB).                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | <b>(81) Designated States:</b> 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, US, 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).<br><br><b>Published</b><br>With international search report. |
| <b>(54) Title:</b> CENTRE-FEED ROLL<br><b>(57) Abstract</b><br><p>A centre-feed roll (1) is disclosed which is formed from two webs (2, 3) each having lines of weakness (10) which allow the web to be separated into a plurality of sheets (8, 9, 11). The lines of weakness of one web are offset from those of the other such that in use the sheets can be dispensed singly from alternate webs. The lines of weakness (10) are manufactured to be as weak as possible such that the frictional force exerted by the aperture (7) may be minimised and the web will break as soon as the frictional force between the web (2, 3) and the aperture (7) is present across the perforations. The webs do not form a rope and the next sheet is presented for the next user to grasp easily. A base for use with a centre-feed roll is also disclosed. The base is provided with a rim extending around an aperture, the rim projecting into the centre of the roll in use. The web passes through the aperture from the inner surface of the roll.</p> <div data-bbox="1037 1299 1452 2083"> </div> |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |