

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ :

A61F 13/56, 13/58

A1

(11) International Publication Number: **WO 99/17697**

(43) International Publication Date: 15 April 1999 (15.04.99)

(21) International Application Number: PCT/US98/03501

(22) International Filing Date: 23 February 1998 (23.02.98)

(30) Priority Data:
08/944,169 6 October 1997 (06.10.97) US

(71) Applicant: MINNESOTA MINING AND MANUFACTURING COMPANY [US/US]; 3M Center, P.O. Box 33427, Saint Paul, MN 55133-3427 (US).

(72) Inventors: MELBYE, William, L.; P.O. Box 33427, Saint Paul, MN 55133-3427 (US). SETH, Jayshree; P.O. Box 33427, Saint Paul, MN 55133-3427 (US).

(74) Agents: BOND, William, J. et al.; Minnesota Mining and Manufacturing Company, Office of Intellectual Property Counsel, P.O. Box 33427, Saint Paul, MN 55133-3427 (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, GH, GM, GW, HU, ID, 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, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), 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

With international search report.

(54) Title: CLOSURE SYSTEM FOR DISPOSABLE ABSORBENT ARTICLE

(57) Abstract

A closure system and method of making a closure system for a disposable article. A substantially continuous closure system web is provided. One face of the web is provided with first fastening region at terminal end portion(s) (32) of the web. A second fastening region (33), engagable with the first fastening region, is provided on a second face of the web in a region adjacent the terminal end portion(s). The closure system tab elements (14) are cut from the web (1) and attached to a second web, used in producing the disposable article, at longitudinally spaced locations. This second web is then cut at transverse cut lines separating the closure system tab element into two functional elements. A first functional element has a fastening tab portion (99) and the second functional element has an attachment portion (93). The attachment portion of one closure system tab element (14) interacts with a fastening tab portion of an adjacent closure system tab element to form a functional closure system on a disposable article (91) made using the second web.

