



PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: A61F 13/00, A61M 16/00, 29/00, 37/00	A1	(11) International Publication Number: WO 97/22314
		(43) International Publication Date: 26 June 1997 (26.06.97)
(21) International Application Number: PCT/US96/19279 (22) International Filing Date: 5 December 1996 (05.12.96) (30) Priority Data: 08/574,450 15 December 1995 (15.12.95) US (71) Applicant: CREATIVE INTEGRATION & DESIGN, INC. [US/US]; 864 East Orange Avenue, St. Paul, MN 55106 (US). (72) Inventor: JOHNSON, Bruce, C.; 864 East Orange Avenue, St. Paul, MN 55106 (US). (74) Agent: NEILS, Theodore, F.; Kinney & Lange, P.A., Suite 1500, 625 Fourth Avenue South, Minneapolis, MN 55415-1659 (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, SI, SK, TJ, TM, TR, TT, UA, 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: DILATOR PEEL FORCE REDUCTION**(57) Abstract**

A dilator (10) formed with a truss (16) with a pair of spaced-apart end surfaces (20, 22, 46) that provides a restoring force therebetween if forced toward one another, this restoring force provided by a resilient band (30a, 30b) extending between the opposite ends of the truss (16) with a plurality of notches (43a, 43b, 43c) located at each of the ends thereof. The notches (43a, 43b, 43c) exceed at least a third of the thickness of the band (30a, 30b) and may comprise a separation (82, 82', 82'', 82''', 82''') at the location thereof between selected portions of the resilient band (30a, 30b) with this separation (82, 82', 82'', 82''', 82''') surrounded by a corresponding separation edge thereabout intersecting a first surface of the first resilient band. A second and similar band may also be provided in the truss (16).

