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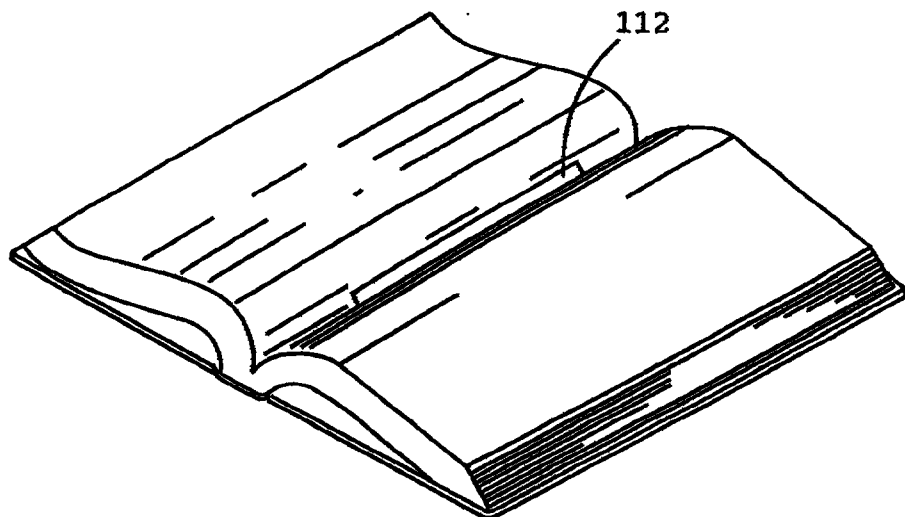
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(21) International Application Number: PCT/US96/12423 (22) International Filing Date: 29 July 1996 (29.07.96) (30) Priority Data: 08/622,575 25 March 1996 (25.03.96) /US (71) Applicant: MINNESOTA MINING AND MANUFACTURING COMPANY [US/US]; 3M Center, P.O. Box 33427, Saint Paul, MN 55133-3427 (US) (1) (72) Inventors: ZAREMBO, Peter, J. P.O. Box 33427, Saint Paul, MN 55133-3427 (US); DEVALE, Donald, P. P.O. Box 33427, Saint Paul, MN 55133-3427 (US); WEBER, William, R., III, P.O. Box 33427, Saint Paul, MN 55133-3427 (US); KONING, Norman, L. P.O. Box 33427, Saint Paul, MN 55133-3427 (US); MICHELS, Paul, J. P.O. Box 33427, Saint Paul, MN 55133-3427 (US) (5) (74) Agents: BARTINGALE, Kari, H. 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, 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, 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 With international search report.

(54) Title: APPARATUS AND METHOD FOR INSERTING MARKERS INTO BOOKS



(57) Abstract

A marker insertion apparatus (20) automatically removes a marker from a roll of marker material (1000) and applies the marker to an applicator. The markers mount to a backing sheet and are peeled from the sheet by passing over a peel bar. Jaws (70) are positioned near the peel bar and configured for gripping an end marker. An applicator member inserts intermediate the jaws (70) and has the end marker pressed onto the applicator and torn from the roll (1000). In a first embodiment, the applicator is a paddle applicator for inserting markers (112) between opposing pages, and in a second embodiment the applicator is a bayonet applicator for inserting markers (112) into the spine of a book.