(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
22 March 2001 (22.03.2001)

PCT

(10) International Publication Number
WO 01/19275 A2

(51) International Patent Classification[7]: A61B 19/00

(21) International Application Number: PCT/US00/40903

(22) International Filing Date:
14 September 2000 (14.09.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/154,435 17 September 1999 (17.09.1999) US

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(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:
— *Without international search report and to be republished upon receipt of that report.*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 01/19275 A2

(54) Title: COVER FOR ELECTROMAGNETIC TREATMENT APPLICATOR

(57) Abstract: A disposable cover for electromagnetic treatment applicators prevents undesired exposure to potentially harmful radiation. The cover is a pouch-like structure having a back surface (which faces opposite, or away from, the treatment area) constructed from shielding material, such as metallized polyethylene. At least a portion of the cover which faces the treatment area is constructed solely from non-shielding material. Securing means, such as adhesive strips, ZIP-LOCK®, or other interlocking edges, secure the applicator inside the cover and close off any leaks. The electromagnetic properties of the cover are integrated into the circuitry for the treatment applicator, such that the applicator is not functional in the absence of the cover. In use, an electromagnetic treatment applicator is inserted into the cover and positioned over the area to be treated, with the non-shielding, or "window", portion of the cover overlying the treatment area. Once assembled, the applicator/cover combination forms a closely matched and tuned network for effecting a highly efficient RF output. When activated, the generated electromagnetic energy only exits the cover through the opening or "window", thereby preventing exposure of the patient or caregiver to potentially harmful radiation.