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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
9 February 2006 (09.02.2006)

PCT

(10) International Publication Number
WO 2006/014572 A1

(51) International Patent Classification[7]: A61M 31/00

(21) International Application Number:
PCT/US2005/024200

(22) International Filing Date: 8 July 2005 (08.07.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/586,273 8 July 2004 (08.07.2004) US
PCT/US04/22058 8 July 2004 (08.07.2004) US

(71) Applicant *(for all designated States except US)*: **DRUGTECH CORPORATION** [US/US]; 300 Delaware Avenue, Suite 1270, Wilmington, DE 19801 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **CUCA, Robert, C.** [US/US]; 311 Edwards Drive, Glen Carbon, IL 62034 (US). **RILEY, Thomas, C.** [US/US]; 762 Galway Drive, Manchester, MO 63021 (US). **LEVINSON, R., Saul** [US/US]; 17020 Kimwood Court, Chesterfield, MO 63005 (US).

(74) Agent: **WACHTER, Mark, F.**; Blackwell Sanders Peper Martin, LLP, 720 Olive Street, Suite 2400, St. Louis, MO 63101 (US).

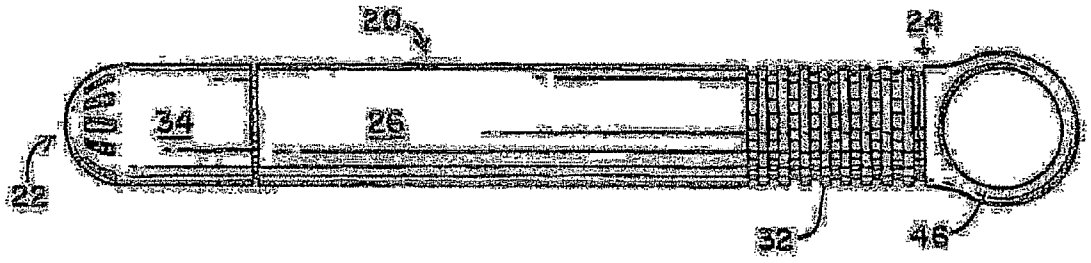
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search 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.

(54) Title: DELIVERY SYSTEM



(57) Abstract: A pharmaceutical delivery system that releases an active agent in a controlled manner for an extended period in the vaginal cavity to treat or cure ailments associated with the vaginal cavity or proximal areas. The delivery system includes an applicator which is composed of a high internal phase emulsion, allowing the delivery system to adhere to the mueosal surfaces of the body, primarily the lining of vaginal cavity. The delivery system can maintain the high internal phase emulsion at a temperature of 86° F for at least one month, without decomposition or instability of the emulsion.

WO 2006/014572 A1