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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
31 March 2005 (31.03.2005)

PCT

(10) International Publication Number
WO 2005/027807 A1

(51) International Patent Classification[7]: A61F 6/06

(21) International Application Number:
PCT/US2004/030672

(22) International Filing Date:
20 September 2004 (20.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/504,017 19 September 2003 (19.09.2003) US
60/507,138 1 October 2003 (01.10.2003) US

(71) Applicant *(for all designated States except US)*: **DRUGTECH CORPORATION** [US/US]; 103 Foulk Road, Suite 200, Wilmington, DE 19803 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **RILEY, Thomas, C.** [US/US]; 762 Galway Drive, Manchester, MO 63021 (US). **LEVINSON, R., Saul** [US/US]; 17020 Kimwood Court, Chesterfield, MO 63005 (US). **CUCA, Robert, C.** [US/US]; 311 Edwards Drive, Glen Carbon, IL 62034 (US). **MARIANI, Elio** [US/US]; 233 Woodcliffe Place Drive, Chesterfield, MO 63005 (US).

(74) Agents: **NATH, Gary, M.** et al.; Nath & Associates PLLC, 6th Floor, 1030 15th Street, N.W., Washington, DC 20005-1503 (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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, 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, IT, LU, 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*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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: PHARMACEUTICAL DELIVERY SYSTEM

(57) Abstract: A pharmaceutical formulation to treat vaginal conditions in a human patient comprises: at least one active agent; a modified release dosage form which provides extended release of the anti-infective agent upon vaginal administration to the patient; and wherein the formulation, when containing a total dose of the anti-infective agent of about 25 μg to about 500 mg based on the active agent will produce a plasma concentration versus time curve (ng/mL versus hours) having an area under the curve (AUC) of less than about 600 ng/mL.hr.

WO 2005/027807 A1