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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 December 2006 (21.12.2006)

PCT

(10) International Publication Number
WO 2006/133941 A3

(51) International Patent Classification:
A61K 31/352 (2006.01) *A61P 1/08* (2006.01)
A61P 29/02 (2006.01)

(21) International Application Number:
PCT/EP2006/005761

(22) International Filing Date: 14 June 2006 (14.06.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/691,361 16 June 2005 (16.06.2005) US
60/726,509 12 October 2005 (12.10.2005) US

(71) Applicant *(for all designated States except US)*: **EUROCELTIQUE S.A.** [LU/LU]; 122, Boulevard de la Petrusse, L-2330 Luxembourg (LU).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: **KUPPER, Robert, J.** [US/US]; 755 Major Potter Road, East Greenwich, RI 02818 (US).

(74) Agent: **MAIWALD, Walter**; Maiwald Patentanwalts-GmbH, Elisenhof - Elisenstrasse 3, 80335 München (DE).

(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, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, 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*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
15 March 2007

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: CANNABINOID ACTIVE PHARMACEUTICAL INGREDIENT FOR IMPROVED DOSAGE FORMS

(57) Abstract: Pharmaceutical compositions comprising the cannabinoid active pharmaceutical ingredient, crystalline trans-(±)-Δ^9-tetrahydrocannabinol, and formulations thereof are disclosed. The invention also relates to methods for treating or preventing a condition such as pain comprising administering to a patient in need thereof an effective amount of crystalline trans-(±)-Δ^9-tetrahydrocannabinol. In specific embodiments, the crystalline trans-(±)-Δ^9-tetrahydrocannabinol administered according to the methods for treating or preventing a condition such as pain can have a purity of at least about 98% based on the total weight of cannabinoids.

WO 2006/133941 A3