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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
13 November 2008 (13.11.2008)

PCT

(10) International Publication Number
WO 2008/137087 A1

(51) International Patent Classification:
C07D 207/06 (2006.01) *C07D 403/12* (2006.01)

(21) International Application Number:
PCT/US2008/005702

(22) International Filing Date: 2 May 2008 (02.05.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/927,356 3 May 2007 (03.05.2007) US

(71) Applicant *(for all designated States except US)*: **CEPHALON, INC.** [US/US]; 41 Moores Road, P.O. Box 4011, Frazer, PA 19355 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **CHRISTIE, Michael** [US/US]; 3 Hidden Lane, Phoenixville, PA 19460 (US). **PETRAITIS, Joseph, J.** [US/US]; 9 Rabbit Run Lane, Glenmoore, PA 19343 (US).

(74) Agent: **SPRADAU, Todd, W.**; Cephalon, Inc., 41 Moores Road, P.O. Box 4011, Frazer, PA 19355 (US).

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

WO 2008/137087 A1

(54) Title: PROCESSES FOR PREPARING (R)-2-METHYLPYRROLIDINE AND (S)-2-METHYLPYRROLIDINE AND TARTRATE SALTS THEREOF

(57) Abstract: The present invention provides a short, safe, inexpensive, commercially scalable process for preparing (R)- or (S)-2-methylpyrrolidine from 2-methylpyrroline, which does not require the isolation of synthetic intermediates.