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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
24 December 2003 (24.12.2003)

PCT

(10) International Publication Number
WO 03/106441 A1

(51) International Patent Classification[7]: C07D 265/30, A61K 31/5375, A61P 25/24

(21) International Application Number: PCT/EP03/05261

(22) International Filing Date: 4 June 2003 (04.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02077366.9 17 June 2002 (17.06.2002) EP

(71) Applicant *(for all designated States except US)*: **PHARMACIA ITALIA S.P.A.** [IT/IT]; Via Robert Koch 1.2, I-20152 Milan (IT).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **ZAMPIERI, Massimo** [IT/IT]; Via Luigi Madorati, 1, I-20052 Monza (IT). **AIROLDI, Annalisa** [IT/IT]; Via Roma, 10, I-20020 Nosate (IT). **MARTINI, Alessandro** [IT/IT]; Via Desiderio da Settignano, 14, I-20149 Milano (IT).

(74) Common Representative: **PHARMACIA ITALIA S.P.A.**; Via Robert Koch 1.2, I-20152 Milan (IT).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, 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, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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

Published:
— *with international search report*
— *with amended claims*

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 03/106441 A1

(54) Title: PHARMACEUTICAL SALTS OF REBOXETINE

(57) Abstract: The present invention relates to novel crystalline, water-soluble salts of the 2S,3S enantiomer of reboxetine, which are the fumarate and succinate salts thereof, to a process for their preparation, to their utility in therapy and to pharmaceutical compositions containing them.