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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
31 December 2003 (31.12.2003)

PCT

(10) International Publication Number
WO 2004/000205 A2

(51) International Patent Classification[7]: A61K

(21) International Application Number:
PCT/IN2003/000223

(22) International Filing Date: 19 June 2003 (19.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
477/MAS/2002 21 June 2002 (21.06.2002) IN

(71) Applicant *(for all designated States except US)*: **SUVEN PHARMACEUTICALS LTD.** [IN/IN]; Serene Chambers, Road No. 7, Banjara Hills, Hyderabad 500 034, Andra Pradesh (IN).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **JASTI, Venkateswarlu** [IN/IN]; Serene Chambers, Road No. 7, Banjara Hills, Hyderabad 500 034, Andra Pradesh (IN). **RAMAKRISHNA, Venkata, Satya, Nirogi** [IN/IN]; Serene Chambers, Road No. 7, Banjara Hills, Hyderabad 500 034, Andra Pradesh (IN). **KAMBHAMPATI, Rama, Sastri** [IN/IN]; Serene Chambers, Road No. 7, Banjara Hills, Hyderabad 500 034, Andra Pradesh (IN). **BATTULA, Srinivasa, Reddy** [IN/IN]; Serene Chambers, Road No. 7, Banjara Hills, Hyderabad 500 034, Andra Pradesh (IN). **RAO, Venkata, Satya, Veerabhadra, Vadlamudi** [IN/IN]; Serene Chambers, Road No. 7, Banjara Hills, Hyderabad 500 034, Andra Pradesh (IN).

(74) Agents: **SUBRAMANIAM, Hariharan** et al.; Subramaniam, Nataraj & Associates, E-556, Greater Kailash-II, New Delhi 110 048 (IN).

(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, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, 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:
— *without international search report and to be republished upon receipt of that 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.

WO 2004/000205 A2

(54) Title: NOVEL TETRACYCLIC ARYLCARBONYL INDOLES HAVING SEROTONIN RECEPTOR AFFINITY USEFUL AS THERAPEUTIC AGENTS, PROCESS FOR THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM

(57) Abstract: The present invention relates to novel tetracyclic arylcarbonyl indoles, their derivatives, their analogues, their tautomeric forms, their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, their pharmaceutically acceptable solvates, novel intermediates described herein and pharmaceutically acceptable compositions containing them. This invention particularly relates to novel tetracyclic arylcarbonyl indoles of the general formula (I), their derivatives, their analogues, their tautomeric forms, their stereoisomers, their polymorphs, their pharmaceutically acceptable salts, their pharmaceutically acceptable solvates, novel intermediates described herein and pharmaceutically acceptable compositions containing them. This invention also relates to process/es for preparing such compound/s of general formula (I), composition/s containing effective amount/s of such a compound and the use of such a compound/composition in therapy