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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
28 February 2002 (28.02.2002)

PCT

(10) International Publication Number:
WO 02/16345 A1

(51) International Patent Classification[7]: C07C D 405/14, A61P 25/18

(21) International Application Number: PCT/EP01/08528

(22) International Filing Date: 24 July 2001 (24.07.2001)

(25) Filing Language: German

(26) Publication Language: German

(30) Priority Data:
100 41 574.1 24 August 2000 (24.08.2000) DE

(71) Applicant *(for all designated States except US)*: **MERCK PATENT GMBH** [DE/DE]; Frankfurter Strasse 250, 64293 Darmstadt (DE).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **GOTTSCHLICH, Rudolf** [DE/DE]; Buchenweg 1, 64354 Reinheim (DE). **ACKERMANN, Karl-August** [DE/DE]; Am Pfarrweiher 40, 64372 Ober-Ramstadt (DE). **PRÜCHER, Helmut** [DE/DE]; Königsberger Str. 9, 64646 Heppenheim (DE). **SEYFRIED, Christoph** [DE/DE]; Mathildenstr. 6, 64342 Seeheim (DE). **BARTOSZYK, Gert** [DE/DE]; Kreuzstr. 57, 64331 Weiterstadt (DE). **VAN AMSTERDAM, Christoph** [DE/DE]; Schepp Allee 47, 64295 Dramstadt (DE).

(74) Joint Representative: **MERCK PATENT GMBH**; Frankfurter Strasse 250, 64293 Darmstadt (DE).

(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, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

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

Published:

— *With international search 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.

(54) Title: CHROMENONE DERIVATIVES AND THE USE THEREOF FOR THE TREATMENT OF DISEASES IN CONNECTION WITH 5-HTA1 RECEPTORS AND/OR DOPAMINE D2 RECEPTORS

(57) Abstract: Novel chromenone derivatives of the formula I, in which Y, X, R^1, R^2, R^3 and n have one of the meanings given in Patent Claim 1, as inhibitors of the 5-HT_{1A} receptor and of the dopamine D_2 receptor.

162162

G00002