

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
26 August 2010 (26.08.2010)

PCT

(10) International Publication Number
WO 2010/094285 A1

(51) International Patent Classification:
C07D 295/096 (2006.01)

(21) International Application Number:
PCT/DK2010/050039

(22) International Filing Date:
16 February 2010 (16.02.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PA 200900223 17 February 2009 (17.02.2009) DK
61/207,972 17 February 2009 (17.02.2009) US

(71) Applicant (for all designated States except US): **H. LUNDBECK A/S** [DK/DK]; Ottiliavej 9, DK-2500 Valby (DK).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **NICOLAJSEN, Henrik, Vigan** [DK/DK]; Classensgade 24, 1. th, DK-2100 Copenhagen Ø (DK). **LOPEZ DE DIEGO, Heidi** [DK/DK]; Hælderne 5, DK-2850 Nærum (DK). **ROCK, Michael, Harold** [GB/DK]; Risbjergvej 28, DK-2650 Hvidovre (DK).

(74) Common Representative: **H. LUNDBECK A/S**; Corporate Patents & Trademarks, Ottiliavej 9, DK-2500 Valby (DK).

(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, CL, 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, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(54) Title: PURIFICATION OF 1-[2-(2,4-DIMETHYLPHENYLSULFANYL)PHENYL]PIPERAZINE

(57) Abstract: The present invention concerns a process for the manufacture of 1-[2-(2,4- dimethylphenylsulfanyl)phenyl]piperazine.



WO 2010/094285 A1