



(43) International Publication Date
7 March 2013 (07.03.2013)

(10) International Publication Number
WO 2013/032035 A1

(51) International Patent Classification:

C07D 209/08 (2006.01) *C07D 401/14* (2006.01)
C07D 209/86 (2006.01) *C07D 409/04* (2006.01)
C07D 401/04 (2006.01)

(21) International Application Number:

PCT/JP2012/072828

(22) International Filing Date:

31 August 2012 (31.08.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2011-191166	2 September 2011 (02.09.2011)	JP
61/531,737	7 September 2011 (07.09.2011)	US
2012-185502	24 August 2012 (24.08.2012)	JP

(71) Applicant (*for all designated States except US*): **TAKAS-AGO INTERNATIONAL CORPORATION** [JP/JP]; 37-1, Kamata 5-chome, Ota-ku, Tokyo, 1448721 (JP).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **NAKAYAMA, Yuji**.
KOBAYASHI, Tohru.

(74) Agents: **HAMADA, Yuriko** et al.; Eikoh Patent Firm, Toranomon East Bldg. 10F, 7-13, Nishi-Shimbashi 1-chome, Minato-ku, Tokyo, 1050003 (JP).

(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, BN, 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, 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, QA, RO, RS, RU, RW, 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, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, 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, RS, 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))

(54) Title: PROCESS FOR PRODUCING N-(HETERO)ARYLAZOLES

(57) Abstract: The present invention provides a process for effectively producing an N-(hetero)arylazole with high yield, which is useful as a medical or agrochemical product, an organic photoconductor material, an organic electroluminescent element material, or the like. The present invention relates to a process for producing an N-(hetero)arylazole, which includes reacting a (hetero)aryl (pseudo)halide with an NH-azole in the presence of: a catalyst including a palladium compound and a coordination compound; and a basic magnesium compound.



WO 2013/032035 A1