



(43) International Publication Date
2 August 2012 (02.08.2012)

(10) International Publication Number
WO 2012/103041 A3

(51) International Patent Classification:
A01N 43/40 (2006.01)

(21) International Application Number:
PCT/US2012/022285

(22) International Filing Date:
24 January 2012 (24.01.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/435,966 25 January 2011 (25.01.2011) US

(71) Applicant (for all designated States except US): **DOW AGROSCIENCES LLC** [US/US]; 9330 Zionsville Road, Indianapolis, IN 46268 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ARNDT, Kim E.** [US/US]; 13563 Spring Farms Drive, Carmel, IN 46032 (US). **RENGA, James M.** [US/US]; 5801 North Central Avenue, Indianapolis, IN 46220 (US). **ZHU, Yuanming** [US/US]; 12514 Spring Violet Place, Carmel, IN 46033 (US). **WHITEKER, Gregory T.** [US/US]; 1467 Trail Creek Court, Carmel, IN 46032 (US). **LOWE, Christian T.** [US/US]; 466 Elnora Lane, Westfield, IN 46074 (US).

(74) Agent: **MIXAN, Craig**; Dow AgroSciences LLC, 9330 Zionsville Road, Indianapolis, Indiana 46268 (US).

(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, 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, MD, 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).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

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))

(88) Date of publication of the international search report:

1 May 2014

(54) Title: PROCESS FOR THE PREPARATION OF 4-AMINO-3-CHLORO-5-FLUORO-6-(SUBSTITUTED) PICOLINATES

(57) Abstract: 4-Amino-3-chloro-5-fluoro-6-(substituted) picolinates are conveniently prepared from 3,4;5,6-tetrachloropicolinonitrile by a series of steps involving fluorine exchange, amination, halogen exchange and hydrolysis, esterification and transition metal assisted coupling. The present invention concerns a process for the preparation of 4-amino-3-chloro-5-fluoro-6-(substituted)picolinates. More particularly, the present invention concerns a process for the preparation of 4-amino-3-chloro-5-fluoro-6-(substituted)picolinates in which the 5-fluoro substituent is introduced by a halogen exchange early in the process scheme.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2012/022285

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A01N 43/40 (2014.01)

USPC - 504/260

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - A01N 43/40; C07D 213/61, 213/79, 213/81, 213/84 (2014.01)

USPC - 504/260; 546/286, 289

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC - A01N 43/40; C07D 213/61, 213/79, 213/81, 213/84 (2013.01)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PatBase, Google Patents, STN, Google Scholar, PubChem

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 7,432,227 B2 (BALKO et al) 07 October 2008 (07.10.2008) entire document	1, 2
A	US 3,803,159 A (TORBA) 09 April 1974 (09.04.1974) entire document	1, 2
A	US 7,498,468 B2 (BALKO et al) 03 March 2009 (03.03.2009) entire document	1, 2

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Date of the actual completion of the international search

10 February 2014

Date of mailing of the international search report

11 MAR 2014

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

Authorized officer:

Blaine R. Copenheaver

PCT Helpdesk: 571-272-4300

PCT OSP: 571-272-7774