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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
13 March 2008 (13.03.2008)

PCT

(10) International Publication Number
WO 2008/030834 A3

(51) International Patent Classification:
C05G 5/00 (2006.01) *C05G 3/00* (2006.01)

(21) International Application Number:
PCT/US2007/077576

(22) International Filing Date:
5 September 2007 (05.09.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/516,810 6 September 2006 (06.09.2006) US

(71) Applicant *(for all designated States except US)*: **THE DAVEY TREE EXPERT COMPANY** [US/US]; 1500 N. Mantua Street, Kent, OH 44240 (US).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: **FUNK, Roger** [US/US]; 8163 Seasons Road, Streetsboro, OH 44241 (US).

(74) Agents: **LIENESCH, Theodore, D.** et al.; Thompson Hine Llp, Intellectual Property Group, Post Office Box 8801, Dayton, OH 45401-8801 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
17 July 2008

WO 2008/030834 A3

(54) Title: FERTILIZERS CONTAINING SALTS OF POLYAMINO ACID

(57) Abstract: High analysis fertilizer formulations of a low bulk density powdered ureaformaldehyde, having soluble and insoluble components combined with soluble monopotassium phosphate and polyamino acid salt in which the resulting mixtures are dry homogeneous blends and may be carried in liquid for application to surface or subsurface areas by conventional liquid fertilizer applying equipment.

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/077576

A. CLASSIFICATION OF SUBJECT MATTER
INV. C05G5/00 C05G3/00

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)
C05B C05G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 089 670 A (FUNK ROGER CALVIN) 16 May 1978 (1978-05-16) claims	1-21
Y	WO 98/30100 A (DONLAR CORP [US]) 16 July 1998 (1998-07-16) page 2, line 30 - page 3, line 20 page 5, line 22 - line 29 page 9, line 13 - line 17 page 11, line 20 - page 13, line 26; claims	1-21
Y	WO 99/63819 A (DONLAR CORP [US]) 16 December 1999 (1999-12-16) page 2, line 26 - page 3, line 22 page 9, line 18 - page 10, line 8; claims page 17, line 30 - page 18, line 2	1-21

-/--

[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
20 May 2008	28/05/2008

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Cardin, Aurélie

Form PCT/ISA/210 (second sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/077576

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WU ET AL: "Slow - release urea containing polyaspartic acid or its salt, its preparation and application" CA,, 1 January 1900 (1900-01-01), XP002409552 abstract	1,7,15
A	HORI ET AL: "Manufacture of fertilizer containing organic solution" CA,, 1 January 1900 (1900-01-01), XP002409553 abstract	1,7,15
P,Y	WO 2006/115758 A (DAVEY TREE EXPERT COMPANY [US]; FUNK ROGER [US]) 2 November 2006 (2006-11-02) the whole document & US 2006/236734 A1 (FUNK ROGER [US]) 26 October 2006 (2006-10-26)	1-21

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2007/077576

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4089670 A	16-05-1978	US 4036627 A	19-07-1977
WO 9830100 A	16-07-1998	AU 6021098 A	03-08-1998
		ZA 9800038 A	08-07-1998
WO 9963819 A	16-12-1999	NONE	
WO 2006115758 A	02-11-2006	CA 2541079 A1	25-10-2006
		CN 1854110 A	01-11-2006
		US 2006236734 A1	26-10-2006
US 2006236734 A1	26-10-2006	CA 2541079 A1	25-10-2006
		CN 1854110 A	01-11-2006
		WO 2006115758 A2	02-11-2006