

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
22 March 2007 (22.03.2007)

PCT

(10) International Publication Number
WO 2007/031438 A3

(51) International Patent Classification:

A01N 25/02 (2006.01) A01N 57/20 (2006.01)
A01N 25/30 (2006.01) A01P 13/00 (2006.01)

(21) International Application Number:

PCT/EP2006/066013

(22) International Filing Date:

5 September 2006 (05.09.2006)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0518859.4 16 September 2005 (16.09.2005) GB

(71) Applicant (for all designated States except US): **CIBA SPECIALTY CHEMICALS HOLDING INC** [CH/CH]; Klybeckstrasse 141, CH-4057 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ROSE, Simon Alexander Hanson** [GB/GB]; 1 Rush Croft, Thackley, Bradford West Yorkshire BD10 8WN (GB). **LYONS, Lynn** [GB/GB]; 52 Green End Road, East Morton, Keighley West Yorkshire BD20 5TS (GB). **WHITEHEAD, Mark** [GB/GB]; 42 Central Road, Port Sunlight, Wirral Merseyside CH62 5EJ (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, 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, 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:
10 April 2008

(54) Title: PESTICIDE AND/OR HERBICIDE COMPOSITIONS AND METHODS OF THEIR USE

(57) Abstract: A pesticide or herbicide composition that is either a sprayable formulation or an aqueous concentrate which is dilutable to form a sprayable formulation comprising, water containing therein, i) at least one pesticide or herbicide active and ii) a spray drift control agent comprising at least one water-soluble cationic polymer that has been formed from ethylenically unsaturated monomers and iii) at least one cationic surfactant. The composition can be used to treat a crop area or an area of land.



WO 2007/031438 A3

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2006/066013

A. CLASSIFICATION OF SUBJECT MATTER
INV. A01N25/02 A01N25/30 A01N57/20 A01P13/00

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)
A01N

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, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 762 162 B1 (VALPEY III RICHARD S [US] ET AL) 13 July 2004 (2004-07-13) claim 1 column 3, line 25 - line 29 column 3, line 55 - column 4, line 12 column 4, line 35 - line 38 ----- -/--	1,2,5,6

☒ Further documents are listed in the continuation of Box C.

☒ 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.

G document member of the same patent family

Date of the actual completion of the international search

7 February 2008

Date of mailing of the international search report

14/02/2008

Name and mailing address of the ISA/
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

Authorized officer

Lamers, Wolfram

INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2006/066013

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00/26160 A (CIBA SPEC CHEM WATER TREAT LTD [GB]) 11 May 2000 (2000-05-11) cited in the application page 1, paragraph 1 page 3, paragraph 3 page 4, paragraphs 2,3 page 5, paragraphs 2,3 page 5, paragraph 5 page 8, paragraph 4 page 10, paragraphs 2,3 example 3 page 21; table 3	1-10
Y	US 5 525 575 A (CHAMBERLAIN PETER [GB]) 11 June 1996 (1996-06-11) cited in the application column 2, line 6 - line 13 column 3, line 59 - column 4, line 2 column 44, line 20 - line 35 example 4; table 3	1-10
Y	WYRILL J B ET AL: "GLYPHOSATE TOXICITY TO COMMON MILKWEED AND HEMP DOGBANE AS INFLUENCED BY SURFACTANTS" WEED SCIENCE, WEED SCIENCE SOCIETY OF AMERICA, CHAMPAIGN, IL, US, vol. 25, no. 3, May 1977 (1977-05), pages 275-287, XP002034447 ISSN: 0043-1745 the whole document	1-10
Y	RUITER DE H ET AL: "MECHANISMS OF A NONIONIC AND A CATIONIC SURFACTANT IN RELATION TO GLYPHOSATE" AMERICAN CHEMICAL SOCIETY. ABSTRACTS OF PAPER. AT THE NATIONAL MEETING, AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC, US, vol. 194, 1987, page AGRO40, XP009061362 ISSN: 0065-7727 the whole document	1-10
Y	RUITER DE H ET AL AMERICAN CHEMICAL SOCIETY: "MODE OF ACTION OF A NONIONIC AND A CATIONIC SURFACTANT IN RELATION TO GLYPHOSATE" PESTICIDE FORMULATIONS - INNOVATIONS AND DEVELOPMENTS. NEW ORLEANS, AUG. 30 - SEPT. 4, 1987, MEETING OF THE AMERICAN CHEMICAL SOCIETY, WASHINGTON, ACS, US, vol. MEETING 194, 30 August 1987 (1987-08-30), pages 44-55, XP002059051 the whole document	1-10

-/--

INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2006/066013

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2001/034304 A1 (VOLGAS GREG [US] ET AL) 25 October 2001 (2001-10-25) cited in the application examples 7,9,10 -----	1-10

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2006/066013

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6762162	B1	13-07-2004	NONE
WO 0026160	A	11-05-2000	AT 270259 T 15-07-2004
		AU 761016 B2	29-05-2003
		AU 1042300 A	22-05-2000
		DE 69918457 D1	05-08-2004
		DE 69918457 T2	28-07-2005
		DK 1129052 T3	27-09-2004
		EP 1129052 A1	05-09-2001
		ES 2222741 T3	01-02-2005
		IL 142495 A	25-07-2004
		PT 1129052 T	30-11-2004
		US 6288010 B1	11-09-2001
		ZA 200103368 A	28-11-2001
US 5525575	A	11-06-1996	NONE
US 2001034304	A1	25-10-2001	US 2002108415 A1 15-08-2002
			US 2004211234 A1 28-10-2004