

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
31 May 2007 (31.05.2007)

PCT

(10) International Publication Number  
**WO 2007/061976 A3**

(51) International Patent Classification:  
A01N 43/40 (2006.01) A01N 25/02 (2006.01)

(21) International Application Number:  
PCT/US2006/044946

(22) International Filing Date:  
17 November 2006 (17.11.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/737,994 18 November 2005 (18.11.2005) US

(71) Applicant: **DOW AGROSCIENCES LLC** [US/US];  
9330 Zionsville Road, Indianapolis, IN 46268-1054 (US).

(71) Applicants and

(72) Inventors: **KEENEY, Franklin, N.** [US/US]; 12304  
Windsor Drive, Carmel, IN 46033 (US). **KLINE,  
William, N., III** [US/US]; 2716 Saxon Drive, Duluth, GA  
30096 (US). **BURCH, Patrick, L.** [US/US]; 3425 Elk  
Creek Drive, Christiansburg, VA 24073 (US). **TROTH,  
John, L.** [US/US]; 11229 Lakeshore Drive West, Carmel,  
IN 46033 (US).

(74) Agent: **MIXAN, Craig, E.**; Dow Agrosiences LLC, 9330  
Zionsville Road, Indianapolis, IN 46268 (US).

(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, GT, 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*

(88) Date of publication of the international search report:  
15 November 2007

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*



**WO 2007/061976 A3**

(54) Title: USE OF COMPOSITIONS COMPRISING TRICLOPYR BUTOXYETHYL ESTER FOR THE CONTROL OF WOODY PLANTS

(57) Abstract: Triclopyr butoxyethyl ester compositions with a dearomatized aliphatic solvent or a vegetable oil ester as a carrier provide enhanced control of woody vegetation in foliar applications.

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2006/044946

**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. A01N43/40 A01N25/02

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, BIOSIS, CHEM ABS Data, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CA 1 167 271 A1 (DOW CHEMICAL CO) 15 May 1984 (1984-05-15) page 2, line 1 - page 3, line 3 page 6, lines 23-30 page 8, lines 1-25	1-11
Y	US 5 466 659 A (KEENEY F NELSON [US] ET AL) 14 November 1995 (1995-11-14) cited in the application column 1, line 33 - column 2, line 5 column 2, lines 14-55 column 3, lines 48-59 examples 4,6,8 column 8, lines 26-30 claim 18	1-11

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents :

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>*A* document defining the general state of the art which is not considered to be of particular relevance</li> <li>*E* earlier document but published on or after the international filing date</li> <li>*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)</li> <li>*O* document referring to an oral disclosure, use, exhibition or other means</li> <li>*P* document published prior to the international filing date but later than the priority date claimed</li> </ul> | <ul style="list-style-type: none"> <li>*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</li> <li>*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</li> <li>*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.</li> <li>*Z* document member of the same patent family</li> </ul> |
|---|---|

Date of the actual completion of the international search

24 July 2007

Date of mailing of the international search report

31/07/2007

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

ROMANO-GOETSCH, R

## INTERNATIONAL SEARCH REPORT

International application No

PCT/US2006/044946

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>THOMPSON D G ET AL: "FATE OF TRICLOPYR ESTER RELEASE IN A BOREAL FOREST STREAM" ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY, vol. 10, no. 5, 1991, pages 619-632, XP009086919 ISSN: 0730-7268 - Conclusions - abstract</p>	1-11
Y	<p>GAUVRIT CHRISTIAN ET AL: "Oils for weed control: uses and mode of action" PESTICIDE SCIENCE, vol. 37, no. 2, 1993, pages 147-153, XP000381448 &amp; THIRD INTERNATIONAL SYMPOSIUM ON ADJUVANTS FOR AGROCHEMICALS; CAMBRIDGE, ENGLAND, UK; AUGUST 3-7, 1992 ISSN: 0031-613X page 151, left-hand column - page 152, right-hand column</p>	1-11
Y	<p>BOVEY RODNEY W ET AL: "Honey mesquite (Prosopis glandulosa) control by synergistic action of clopyralid: Triclopyr mixtures" WEED SCIENCE, vol. 40, no. 4, 1992, pages 563-567, XP009080681 ISSN: 0043-1745 pages 564-565; tables 1,2 abstract</p>	1-11
A	<p>HAMILTON RICHARD J: "Structure and general properties of mineral and vegetable oils used as spray adjuvants" PESTICIDE SCIENCE, vol. 37, no. 2, 1993, pages 141-146, XP000381447 &amp; THIRD INTERNATIONAL SYMPOSIUM ON ADJUVANTS FOR AGROCHEMICALS; CAMBRIDGE, ENGLAND, UK; AUGUST 3-7, 1992 ISSN: 0031-613X table 10 page 146 abstract</p>	1-11

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No  
PCT/US2006/044946

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
CA 1167271	A1	15-05-1984	NONE
US 5466659	A	14-11-1995	NONE