

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 March 2004 (04.03.2004)

PCT

(10) International Publication Number
WO 2004/017737 A3

(51) International Patent Classification⁷: **A01N 47/36**,
43/82, 47/38 // (A01N 47/38, 61:00) (A01N 47/36, 61:00)
(A01N 43/82, 61:00)

(21) International Application Number:
PCT/EP2003/008791

(22) International Filing Date: 7 August 2003 (07.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
1380/02 8 August 2002 (08.08.2002) CH

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (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:
22 April 2004

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.

(54) Title: HERBICIDAL COMPOSITION

(57) Abstract: A herbicidal composition comprising as active ingredient a mixture of a) at least one compound selected from tritosulfuron, flufenacet and propoxycarbazone (sodium), and b) a synergistically effective amount of at least one compound selected from the compounds of the group amidosulfuron, bentazone, bifenox, diflufenican, dicamba, dimethenamid, flurtamone, glufosinate, fenoxaprop-P-ethyl, iodosulfuron-methyl (sodium), bromoxynil, ioxynil, beflubutamid, imazosulfuron, cinidon-ethyl, 2,4-D, MCPA, MCPP, picolinafen, pendimethalin, pyraflufen, imazethapyr, imazapic, imazapyr, imazaquin, imazamox and imazamethabenzmethyl, with the proviso that the mixtures of tritosulfuron with beflubutamid, tritosulfuron with mesosulfuron, tritosulfuron with iodosulfuron-methyl (sodium), tritosulfuron with ioxynil, tritosulfuron with dicamba, tritosulfuron with cinidon-ethyl, tritosulfuron with 2,4-D, picolinafen with cinidon-ethyl, flufenacet with picolinafen, flufenacet with fenoxaprop-P-ethyl, flufenacet with iodosulfuron-methyl (sodium), flufenacet with beflubutamid, flufenacet with mesosulfuron, flufenacet with cinidon-ethyl, flufenacet with imazamox, flufenacet with bifenox, flufenacet with diflufenican, flufenacet with flurtamone, flufenacet with glufosinate, flufenacet with pendimethalin, flufenacet with ioxynil, propoxycarbazone (sodium) with amidosulfuron, propoxycarbazone (sodium) with diflufenican, propoxycarbazone (sodium) with fenoxaprop-P-ethyl, propoxycarbazone (sodium) with iodosulfuron-methyl (sodium), propoxycarbazone (sodium) with bromoxynil, propoxycarbazone (sodium) with ioxynil, propoxycarbazone (sodium) with mesosulfuron, propoxycarbazone (sodium) with bifenox, propoxycarbazone (sodium) with flurtamone, propoxycarbazone (sodium) with picolinafen and propoxycarbazone (sodium) with glufosinate are excluded.

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INTERNATIONAL SEARCH REPORT

Internati ication No
PCT/EP 03/08791

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A01N47/36 A01N43/82 A01N47/38
// (A01N47/38,61:00), (A01N47/36,61:00), (A01N43/82,61:00)

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)

IPC 7 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, PAJ, BIOSIS, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 03/009684 A (BAYER CROP SCIENCE GMBH ;BIERINGER HERMANN (DE); HUFF HANS PHILIPP) 6 February 2003 (2003-02-06) claim 1	1-3
X	WO 01/035741 A (FEUCHT DIETER ;BAYER AG (DE); DAHMEN PETER (DE); KREMER MATHIAS (D) 25 May 2001 (2001-05-25) example A	1-3
A	WO 01/074157 A (BASF AG) 11 October 2001 (2001-10-11) claim 4	



Further documents are listed in the continuation of box C.



Patent family members are listed in 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

7 October 2003

Date of mailing of the international search report

06.02.04

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INTERNATIONAL SEARCH REPORT

Inter application No.
PCT/EP 03/08791

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claim: INVENTION 1

synergistic herbicidal composition containing tritosulfuron
and amidosulfuron

2. claims: INVENTIONS 2-53

the 52 other synergistic herbicidal compositions resulting
from the combination of the 3 first components and the 27
second components (=81 combinations) minus the first
invention listed above and minus the 28 exceptions listed in
present claim 1.

INTERNATIONAL SEARCH REPORT

on on patent family members

Internati plication No

PCT/EP 03/08791

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03009684	A	06-02-2003	DE 10135641 A1	06-02-2003
			WO 03009684 A2	06-02-2003
			US 2003050193 A1	13-03-2003

WO 0135741	A	25-05-2001	DE 19960918 A1	23-05-2001
			AU 1029401 A	30-05-2001
			BR 0015701 A	23-07-2002
			CA 2390570 A1	25-05-2001
			CN 1391439 T	15-01-2003
			CZ 20021728 A3	16-10-2002
			WO 0135741 A2	25-05-2001
			EP 1233672 A2	28-08-2002
			HU 0203400 A2	28-03-2003
			ZA 200202759 A	09-04-2003

WO 0174157	A	11-10-2001	AU 6585701 A	15-10-2001
			BG 107158 A	31-07-2003
			BR 0109821 A	21-01-2003
			CA 2404353 A1	11-10-2001
			CN 1420724 T	28-05-2003
			CZ 20023303 A3	17-09-2003
			WO 0174157 A2	11-10-2001
			EP 1267612 A1	02-01-2003
			HU 0300564 A2	28-07-2003
			JP 2003528893 T	30-09-2003
			SK 14252002 A3	03-06-2003
			US 2002028747 A1	07-03-2002
