

55788

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
DIVISION DE NUEVAS CREACIONES

SUPERINDUSTRIA Y COMERCIO

Radicacion: 04052100 00000002

Folios: 17

Fecha (AFB): 2004-07-22 16:36:50

Tramite: 011 PCT-PATENT 379 FASE NACI 444 RESPUESTA

Dependencia: 2020 DIVISION DE NUEVAS CREACIONES

E. S. D.

Re: Expediente No. 04 052100

Solicitud de patente PCT fase nacional.

Solicitud internacional No. PCT/EP02/13235

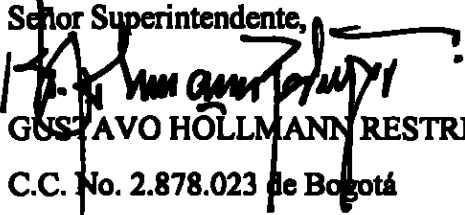
Solicitante: BAYER CROPSCIENCE GmbH

Yo, GUSTAVO HOLLMANN RESTREPO, vecino de Bogotá D.C., portador de la tarjeta profesional No. 5903, obrando como apoderado en este negocio, manifiesto a usted que doy respuesta al oficio No. 6382 notificado por estado el 9 de julio de 2004, sobre la solicitud de patente de la referencia, en los siguientes términos:

- Acompaño al presente memorial, para que sea agregado al expediente de la referencia el documento en el cual consta la cesión del derecho a la patente de los inventores al solicitante, debidamente traducido y legalizado.
- Adjunto igualmente, el Reporte de Búsqueda Internacional junto con la carátula de la publicación WO 2003/047340 A3, con su traducción al castellano.

En vista de lo anterior, solicito se continúe con el trámite de esta solicitud.

Señor Superintendente,


GUSTAVO HOLLMANN RESTREPO

C.C. No. 2.878.023 de Bogotá

T.P. No. 5903

mm.

**DOCUMENTO DE CESION
ASSIGNMENT DOCUMENT**

**Los suscritos
(We, the undersigned)**

1. HACKER, Erwin
2. BIERINGER, Herrmann
3. KRÄHMER, Hansjörg

**declaramos que somos los inventores de la invención que lleva el título
(declare that we are the inventors of the invention titled)**

"

"

("SYNERGISTIC HERBICIDAL COMPOSITIONS")

**y que hemos cedido el derecho sobre esta invención en Colombia, junto con los
privilegios y
(and that we have assigned our rights over this invention in Colombia, together with its
privileges and)**

**anexidades a favor de Bayer CropScience GmbH, domiciliada en Frankfurt,
Alemania
(attachments, to Bayer CropScience GmbH, domiciled in Frankfurt, Germany).**

**SIGNATURES OF ASSIGNORS
Signed at
on**

**FIRMA DE LOS CEDENTES
Firmado en
el**

1. Erwin Hacker 3.5.2004
HACKER, Erwin

2. _____
BIERINGER, Hermann

3. Hansjörg Krämer
KRÄHMER, Hansjörg

**DOCUMENTO DE CESION
ASSIGNMENT DOCUMENT**

Los suscritos
(We, the undersigned)

- 1. HACKER, Erwin
- 2. BIERINGER, Herrmann
- 3. KRÄHMER, Hansjörg

declaramos que somos los inventores de la invención que lleva el título
(declare that we are the inventors of the invention titled)

“ ”

(“SYNERGISTIC HERBICIDAL COMPOSITIONS”)

y que hemos cedido el derecho sobre esta invención en Colombia, junto con los privilegios y
(and that we have assigned our rights over this invention in Colombia, together with its privileges and)

anexidades a favor de Bayer CropScience GmbH, domiciliada en Frankfurt, Alemania
(attachments, to Bayer CropScience GmbH, domiciled in Frankfurt, Germany).

SIGNATURES OF ASSIGNORS
Signed at
on

FIRMA DE LOS CEDENTES
Firmado en
el

1. 
HACKER, Erwin

2. 
BIERINGER, Hermann

3. 
KRÄHMER, Hansjörg

Bayer CropScience GmbH



Dr. R. Weißert
Patents and Licenses,
Frankfurt

SIGNATURE OF ASSIGNEE
Signed at
on



Dr. P. Loss
Patents and Licenses,
Frankfurt

FIRMA DEL CESIONARIO
Firmado en *Frankfurt*
el *28.5.2004*

Nummer 162 der Urkundenrolle für das Jahr 2004

Die vorstehenden, vor mir anerkannten Unterschriften von

1. Herrn Dr. Erwin Hacker
wohnhafte: Margarethenstraße 16, 65239 Hochheim
2. Herrn Dr. Hansjörg Krähmer
wohnhafte: Kantstraße 20, 65719 Hofheim
3. Herrn Dr. Hermann Bieringer
wohnhafte: Eichenweg 26, 65817 Eppstein
4. Herrn Dr. Rudolph Weißert
dienstansässig: Bayer CropScience GmbH
Patent- und Lizenzabteilung, 65926 Frankfurt/M.
5. Herrn Dr. Peter Loss
dienstansässig: Bayer CropScience GmbH
Patent- und Lizenzabteilung, 65926 Frankfurt/M.

-die Parteien zu 1. bis 5. sämtlich von Person bekannt-
beglaubige ich hiermit amtlich.

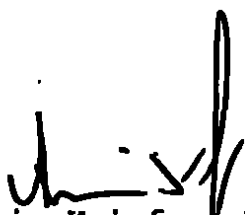
In meiner Eigenschaft als Notar bestätige ich ferner die Unterschriftsberechtigungen der Herren Dr. Weißert und Dr. Loss für die Bereiche Patente und Lizenzen der Firma Bayer CropScience GmbH, Frankfurt am Main, erteilt am 20. Januar 2003 durch die Firma Bayer CropScience GmbH, Frankfurt am Main.

Eine Vorbefassung gemäß § 3 Abs. 1 Nr. 7 BeurkG lag nicht vor.

Frankfurt/M.-Höchst, den 28. Mai 2004


Armin Knipfer, Notar

Kostenrechnung-Wert:	5.000,00
Geb. § 45 I KostO	10,00
Geb. § 150 KostO	13,00
16 % Mehrwertsteuer	3,68
	26,68


Armin Knipfer, Notar

APOSTILLE
(Convention de la Haye du 5 octobre 1961)

1. Land: Bundesrepublik Deutschland

Diese öffentliche Urkunde

2. Ist unterschrieben von Armin Wierfer

3. In seiner Eigenschaft als amtlich bestellter Notar

4. sie ist versehen mit dem Siegel/Stempel des(der) Notars

Bestätigt

5. in Frankfurt/Main

6. am 04. Juni 2004

7. durch den Herrn Präsidenten des Landgerichts

8. unter Nr. 91 Ea A 1019

9. Siegel/Stempel

10. Unterschrift

i. v. Schlitz



Traducción Oficial del Alemán de la autenticación de firmas y la apostilla adjuntas al Documento de Cesión suscrito entre los inventores Erwin Hacker, Hermann Bieringer y Jörg Krähmer y la compañía Bayer CropScience GmbH domiciliada en Frankfurt am Main, Alemania.

Registro Notarial Número 162 para el año 2004

Autentico las firmas que aparecen anteriormente, reconocidas como las suyas propias en mi presencia por

1. Señor Dr. Erwin Hacker,
domicilio: Margarethenstraße 16, 65239 Hochheim
2. Señor Dr. Hansjörg Krähmer,
domicilio: Kantstraße 20, 65719 Hofheim
3. Señor Dr. Hermann Bieringer,
domicilio: Eichenweg 26, 65817 Eppstein
4. Señor Dr. Rudolph Weißert,
domicilio comercial: Bayer CropScience GmbH
Departamento de Patentes y Licencias
65926 Frankfurt am Main
4. Señor Dr. Peter Loss,
domicilio comercial: Bayer CropScience GmbH,
Departamento de Patentes y Licencias,
65926 Frankfurt am Main.

Las personas del 1. hasta el 5. son conocidas personalmente por el suscrito Notario.

En mi calidad de Notario, confirmo además la autorización que tienen el Señor Dr. Weißert y el Señor Dr. Loss para firmar en nombre y representación del Departamento de Patentes y Licencias de la compañía Bayer CropScience GmbH, domiciliada en Frankfurt am Main, Alemania, autorización que fue expedida el

día 20 de Enero del 2003 por la compañía Bayer CropScience GmbH domiciliada en Frankfurt am Main.

No existe ningún impedimento en el sentido del Artículo 3 inciso 1 No. 7 de la Ley de Notarización.

Frankfurt am Main-Höchst, 28 de Mayo del 2004

Armin Knipfer, Notario en Frankfurt am Main
(Firma y Sello Oficial)

Nota de gastos

Valor del negocio: 5.000,00 EUROS

Impuesto Artículo 45 I Disposición de Impuestos	10,00 EUROS
Impuesto Artículo 150 Disposición de Impuestos	13,00 EUROS
16% I.V.A.	3,68 EUROS

Total: 26,68 EUROS

Armin Knipfer, Notario en Frankfurt am Main (Firma)

APOSTILLA

(Convención de La Haya del 5 de Octubre de 1961)

1. País: República Federal de Alemania

Este documento público

2. Ha sido firmado por: Armin Knipfer
3. En su calidad de: Notario nombrado oficialmente
4. Y lleva el sello oficial del: Notario

Confirmado

5. En: Frankfurt am Main
6. El día: 04 de Junio del 2004
7. Por: El Señor Presidente del Tribunal Regional
8. Bajo el No.: 91 Ea A 4099
9. Sello: EL PRESIDENTE DEL TRIBUNAL REGIONAL EN
FRANKFURT AM MAIN
10. Firma: en representación: Schlitz

Adolf Watzke
ADOLF WATZKE
Traductor Oficial
Res. 2433 Minjusticia

MINISTERIO DE
RELACIONES EXTERIORES

235019
A. de la U. de la U.
CUYA FIRMA APARECE EN EL
DOCUMENTO DESEMPEÑA
LAS FUNCIONES INDICADAS

NO SE ASUME
RESPONSABILIDAD DEL TEXTO

2004 JUL -1 A 11: 46
mas
JEFE DE LEGALIZACIONES
BOGOTA D.C.

(19) Weltorganisation für geistiges Eigentum
Internationales Büro



(43) Internationales Veröffentlichungsdatum
12. Juni 2003 (12.06.2003)

PCT

(10) Internationale Veröffentlichungsnummer
WO 2003/047340 A3

(51) Internationale Patentklassifikation⁷: A01N 41/10
// (A01N 47/36, 43:70, 37:40, 25:32)

(21) Internationales Aktenzeichen: PCT/EP3002/013235

(22) Internationales Anmeldedatum:
25. November 2002 (25.11.2002)

(25) Einreichungssprache: Deutsch

(26) Veröffentlichungssprache: Deutsch

(30) Angaben zur Priorität:
101 60 139.5 7. Dezember 2001 (07.12.2001) DE

(71) Anmelder (für alle Bestimmungsstaaten mit Ausnahme von
US): BAYER CROPSCIENCE GMBH [DE/DE]; Brün-
ningstrasse 50, 65929 Frankfurt (DE).

(72) Erfinder; und

(75) Erfinder/Anmelder (nur für US): HACKER, Erwin
[DE/DE]; Margarethenstrasse 16, 65239 Hochheim (DE).
BIERINGER, Hermann [DE/DE]; Eichenweg 26,
65817 Eppstein (DE). KRÄHMER, Hansjörg [DE/DE];
Kantstrasse 20, 65719 Hofheim (DE).

(51) Bestimmungsstaaten (national): AE, AG, AL, AM, AU,
AZ, BA, BB, BR, BY, BZ, CA, CN, CO, CR, CU, DM, DZ,
BC, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ,
LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO,
NZ, OM, PH, PL, RO, RU, SC, SG, SI, TJ, TM, TN, TT,
UA, US, UZ, VC, VN, YU, ZA.

(54) Bestimmungsstaaten (regional): ARIPO-Patent (GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
eurasisches Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ,
TM), europäisches Patent (AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,
SE, SK, TR), OAPI-Patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Veröffentlicht:

— mit internationalem Recherchenbericht

(88) Veröffentlichungsdatum des internationalen
Recherchenberichts: 24. Juni 2004

Zur Erklärung der Zweibuchstaben-Codes und der anderen Ab-
kürzungen wird auf die Erklärungen ("Guidance Notes on Co-
des and Abbreviations") am Anfang jeder regulären Ausgabe der
PCT-Gazette verwiesen.

(54) Titel: SYNERGISTIC HERBICIDAL AGENTS

(54) Bezeichnung: SYNERGISTISCHE HERBIZIDE MITTEL

(57) Abstract: The invention relates to herbicidal agents containing A) 2-[2-chloro-3-(2,2,2-trifluoroethoxymethyl)-4-methylsulfonyl-benzoyl]cyclohexane-1,3-dione and B) at least one compound from the group ethoxysulfuron, flumetsulam, halosulfuron, imazamox, imazapyr, imazaquin, imazethapyr, metosulam, nicosulfuron, primisulfuron, prosulfuron, rimsulfuron, thifensulfuron-methyl, triflurosulfuron, foramsulfuron, ametryne, atrazine, bromoxynil, cyanazine, diuron, hexazinone, metribuzin, pyridate, terbuthylazine, 2,4-D, clopyralid, dicamba, diflufenzopyr, fluroxypyr, butylate, EPTC, fenoxaprop-P-ethyl, acetochlor, alachlor, dimethenamid, flufenacet, mefenacet, metolachlor, thenylchlor, S-metolachlor, fluthiacet-methyl, carfentrazone-ethyl, hydroxy-1-methyl-3-isoxaflutole, mesotrione, sulcotrione, 4-(4-trifluoromethyl-2-methylsulfonylbenzoyl)-5-methylpyrazol, glyphosate, pendimethalin, trifluralin, asulam, triaziflam, diflufenican and glufosinate-ammonium against monocotyle and/or dicotyle harmful plants. Said agents have an advantageous effect compared to individually applied herbicides.

(57) Zusammenfassung: Es werden herbizide Mittel enthaltend A) 2-[2-Chlor-3-(2,2,2-trifluorethoxymethyl)-4-methylsulfonyl-benzoyl]cyclohexan-1,3-dion und B) mindestens einer Verbindung aus der Gruppe ethoxysulfuron, flumetsulam, halosulfuron, imazamox, imazapyr, imazaquin, imazethapyr, metosulam, nicosulfuron, primisulfuron, prosulfuron, rimsulfuron, thifensulfuron-methyl, triflurosulfuron, foramsulfuron, ametryne, atrazine, bromoxynil, cyanazine, diuron, hexazinone, metribuzin, pyridate, terbuthylazine, 2,4-D, clopyralid, dicamba, diflufenzopyr, fluroxypyr, butylate, EPTC, fenoxaprop-P-ethyl, acetochlor, alachlor, dimethenamid, flufenacet, mefenacet, metolachlor, thenylchlor, S-metolachlor, fluthiacet-methyl, isoxaflutole, mesotrione, sulcotrione, 4-(4-Trifluormethyl-2-methylsulfonylbenzoyl)-5-hydroxy-1-methyl-3-methylpyrazol, glyphosate, pendimethalin, trifluralin, asulam, triaziflam, diflufenican und glufosinate-ammonium gegen monokotyle und/oder dikotyle Schädipflanzen beschrieben. Diese Mittel weisen eine gegenüber den einzeln angewandten Herbiziden überlegene Wirkung auf.

WO 2003/047340 A3

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A01N41/10 //(A01N41/10,47:36,43:70,37:40,25:32)

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, 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.
X	WO 01 28341 A (AVENTIS CROPS SCIENCE GMBH) 26 April 2001 (2001-04-26) cited in the application page 1 -page 2 page 3, paragraph 2 -page 11, paragraph 3 page 15, last line page 16, line 5 page 15, line 20,24 page 15, line 17 page 15, line 3,11,17,23 page 15, line 17,23 page 15, line 4,16-19,21 page 16, line 1,2 page 20, paragraph 2 page 25 -page 28; claims 1,4-11	1,2,4-8
X		1,2,4-8
X		1,3-8
X		1,3-8
X		1,3-8
X		1,3-8

-/-

☒ 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.

"A" document member of the same patent family

Date of the actual completion of the international search

17 June 2003

Date of mailing of the international search report

Name and mailing address of the ISA

European Patent Office, P.B. 5018 Patentkanal 2
NL - 2200 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl
Fax (+31-70) 340-3016

Authorized officer

Muellners, W

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00 03592 A (HOECHST SCHERING AGREVO GMBH) 27 January 2000 (2000-01-27) page 1 -page 3, paragraph 3 page 5, paragraph 1 - paragraph 2 page 10, paragraph 2 page 12, paragraph 3 -page 13, paragraph 1 Seiten 14-15, Tabelle, letzter Eintrag page 19, last paragraph -page 20, paragraph 2 page 20, paragraph 4 page 22, paragraph 1 page 27, paragraph 2 - paragraph 5	1,2,4-8
A	DE 42 16 880 A (HOECHST AG) 25 November 1993 (1993-11-25) page 2, line 1 - line 47 page 5, line 40 - line 50 page 7, line 64 - line 66 page 8, line 4 - line 53; claims	1,2,4-8
A	page 2, line 49 -page 3, line 19 page 3, line 32 - line 44 page 4, line 10 - line 24 page 7, line 24 - line 34	1,3-8
A	PATENT ABSTRACTS OF JAPAN vol. 016, no. 581 (C-1012), 21 December 1992 (1992-12-21) & JP 04 230301 A (NIPPON SODA CO LTD), 19 August 1992 (1992-08-19) abstract	1-8
A	WO 97 48276 A (SMITH WILLIAM FRANCIS III ;DU PONT (US); GENNARO FRANCIS PATRICK D) 24 December 1997 (1997-12-24) page 1 -page 2, line 3; examples A,G,H, page 9, line 10 - line 19	1,2,4-8
A	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; BERAUD, JEAN MARC ET AL: "Sulcotrione: a selective postemergence herbicide for corn" retrieved from STN Database accession no. 120:210669 XP002244610 abstract & PHYTOMA (1993), 456, 55-7 ,	1,2,4-8
A	EP 0 230 596 B (STAUFFER CHEMICAL CO) 5 August 1987 (1987-08-05) page 1, line 3 - line 39; claims	1,3-8
	-/-	

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 02/13235

61

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 95 28839 A (ZENECA LTD) 2 November 1995 (1995-11-02) page 1 -page 2, paragraph 2; claims	1,3-8
A	US 5 416 061 A (HEWETT RICHARD HENRY ET AL) 16 May 1995 (1995-05-16) page 1 -page 2, line 53	1,3-8
A	"NEW SYNERGISTIC AND SELECTIVE HERBICIDE COMPOSITIONS" RESEARCH DISCLOSURE, KENNETH MASON PUBLICATIONS, HAMPSHIRE, GB, no. 452, November 2001 (2001-11), page 2044 XP001087222 ISSN: 0374-4353 the whole document	1,3-8
A	US 4 859 234 A (ALTERMAN MARCELO K ET AL) 22 August 1989 (1989-08-22) column 1, line 9 -column 2, line 42 column 3 -column 4, line 40 column 12; table 1 column 17, line 20 - line 49 column 20; table 1	1,3-8
A	US 5 741 756 A (SHRIBBS JOHN MARTIN) 21 April 1998 (1998-04-21) column 1, line 1 - line 61; claims	1,3-8
A	WO 01 43550 A (AVENTIS CROPS SCIENCE SA ; IRONS STEPHEN MALCOLM (US)) 21 June 2001 (2001-06-21) page 1, line 1 - line 29 page 7, line 32 -page 8, line 9	1,3-8
A	US 5 981 432 A (MILLIKEN ROBERT FRANKLIN ET AL) 9 November 1999 (1999-11-09) column 9, line 45 - line 67; claim 1 column 1, line 8 - line 62	1,3-8

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/EP 02/13235**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 supplemental 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.:

1-8 (insofar as subjects 1, 9, 17, 18, 25 and 27 are concerned)

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.:

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 PCT/ISA 210

The International Searching Authority has determined that this international application contains more than one invention or group of inventions, namely:

1. claims 1, 2, 4-8 (all in part)

herbicidal agent, characterized by an effective amount of A) the compound 2-[2-chloro-3-(2,2,2-trifluoroethoxymethyl)-4-methylsulfonyl-benzoyl]cyclohexan-1,3-dione and its agriculturally conventional salts (component A) and B) ethoxysulfuron as component B) in a weight ratio of 1:2000 to 2000:1, and corresponding methods and uses for combating undesirable plant growth;

2. claims 1, 4-8 (all in part)

as subject 1, but component B is flumetsulam;

3. claims 1, 4-8 (all in part)

as subject 1, but component B is halosulfuron;

4. claims 1, 4-8 (all in part)

as subject 1, but component B is imazamox;

5. claims 1, 4-8 (all in part)

as subject 1, but component B is imazapyr

6. claims 1, 4-8 (all in part)

as subject 1, but component B is imazaquin;

7. claims 1, 4-8 (all in part)

as subject 1, but component B is imazethapyr;

Further information

PCT/ISA 210

8. claims 1, 2, 4-8 (all in part)

as subject 1, but component B is metosulam;

9. claims 1, 2, 4-8 (all in part)

as subject 1, but component B is nicosulfuron;

10. claims 1, 2, 4-8 (all in part)

as subject 1, but component B is primisulfuron;

11. claims 1, 2, 4-8 (all in part)

as subject 1, but component B is prosulfuron;

12. claims 1, 2, 4-8 (all in part)

as subject 1, but component B is rimsulfuron;

13. claims 1, 4-8 (all in part)

as subject 1, but component B is thifensulfuron-methyl;

14. claims 1, 4-8 (all in part)

as subject 1, but component B is trisulfuron;

15. claims 1, 2, 4-8 (all in part)

as subject 1, but component B is N-[(4,6-dimethoxypyrimidinyl-2-yl)-aminocarbonyl]-2-dimethyl-aminocarbonyl-5-formylamino-benzenesulfonamide (foramsulfuron);

16. claims 1, 4-8 (all in part)

as subject 1, but component B is ametryne;

Further information PCT/ISA 210

17. claims 1, 3-8 (all in part)

as subject 1 but component B is atrazine;

18. claims 1, 3-8 (all in part)

as subject 1, but component B is bromoxynil;

19. claims 1, 4-8 (all in part)

as subject 1, but component B is cyanazine;

20. claims 1, 4-8 (all in part)

as subject 1, but component B is diuron;

21. claims 1, 4-8 (all in part)

as subject 1, but component B is hexazinone;

22. claims 1, 4-8 (all in part)

as subject 1, but component B is metribuzin;

23. claims 1, 4-8 (all in part)

as subject 1, but component B is pyridate;

24. claims 1, 3-8 (all in part)

as subject 1, but component B is terbuthylazine;

25. claims 1, 3-8 (all in part)

as subject 1, but component B is at least one of the following
synthetic auxins: 2, 4D, clopyralid, dicamba, diflufenzopyr and
fluroxypyr;

Further information

PCTASA 210

26. claims 1, 4-8 (all in part)

as subject 1, but component B is at least one of the following
fatty acid synthesis inhibitors:

butylate, EPTC and fenoxaprop-ethyl;

27. claims 1, 3-8 (all in part)

as subject 1 but component B is at least one of the following
cell division inhibitors:

acetochlor; alachlor; dimethenamid; flufenacet, mefenacet,
metolachlor, thenylchlor and S-metolachlor;

28. claims 1, 4-8 (all in part)

as subject 1, but component B is at least one of the following
protoporphyrinogen oxidase inhibitors:

fluthiacet-methyl and carfentrazone-ethyl;

29. claims 1, 3-8 (all in part)

as subject 1, but component B is at least one of the following
hydroxyphenylpyruvate dioxygenase inhibitors:

isoxaflutole, mesotrione, sulcotrione and 4-(4-trifluoromethyl-
2-methylsulfonylbenzoyl)-5-hydroxy-1-methyl-3-
methylpyrazole;

30. claims 1, 3-8 (all in part)

as subject 1, but component B is glyphosate;

31. claims 1, 3-8 (all in part)

as subject 1, but component B is pendimethalin;

32. claims 1, 4-8 (all in part)

as subject 1, but component B is trifluralin;

Further information PCT/ISA/ 210

33. claims 1, 4-8 (all in part)

as subject 1, but component B is asulam;

34. claims 1, 4-8 (all in part)

as subject 1, but component B is triaziflam;

35. claims 1, 4-8 (all in part)

as subject 1, but component B is diflufenican;

36. claims 1, 3-8 (all in part)

as subject 1, but component B is glufosinate-ammonium.

Continuation of Box II, 3

1-8 (insofar as subjects 1, 9, 17, 18, 25 and 27 are concerned)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/EP 02/13235

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0128341	A	26-04-2001	DE 19950943 A1	17-05-2001
			AU 1142501 A	30-04-2001
			BG 106600 A	29-12-2002
			BR 0014915 A	11-06-2002
			CA 2388745 A1	26-04-2001
			CN 1382017 T	27-11-2002
			CZ 20021377 A3	15-01-2003
			WO 0128341 A2	26-04-2001
			EP 1233673 A2	28-08-2002
			HU 0203351 A2	28-01-2003
			JP 2003511475 T	25-03-2003
			SK 5372002 A3	08-10-2002
WO 0003592	A	27-01-2000	DE 19832017 A1	27-01-2000
			DE 19928453 A1	28-12-2000
			AU 4782099 A	07-02-2000
			AU 5158799 A	07-02-2000
			AU 5281299 A	07-02-2000
			BG 105138 A	31-10-2001
			BR 9912823 A	02-05-2001
			BR 9912828 A	02-05-2001
			BR 9912829 A	02-05-2001
			CA 2337521 A1	27-01-2000
			CN 1318978 T	24-10-2001
			CN 1309533 T	22-08-2001
			CN 1314785 T	26-09-2001
			WO 0003591 A2	27-01-2000
			WO 0003597 A1	27-01-2000
			WO 0003592 A2	27-01-2000
			EP 1104232 A2	06-06-2001
			EP 1096854 A2	09-05-2001
			EP 1096855 A1	09-05-2001
			HU 0104456 A2	28-03-2002
			JP 2002520340 T	09-07-2002
			JP 2002520341 T	09-07-2002
			JP 2002520342 T	09-07-2002
			PL 345665 A1	02-01-2002
			SK 522001 A3	11-09-2001
			TR 200100099 T2	21-06-2001
			TR 200100100 T2	23-07-2001
			TR 200100101 T2	21-06-2001
			US 2003069138 A1	10-04-2003
			US 2002123428 A1	05-09-2002
			US 6492301 B1	10-12-2002
DE 4216880	A	25-11-1993	DE 4216880 A1	25-11-1993
			CN 1078852 A	01-12-1993
			IT 1265082 B1	30-10-1996
			JP 6128106 A	10-05-1994
JP 04230301	A	19-08-1992	JP 2871113 B2	17-03-1999
WO 9748276	A	24-12-1997	BR 9709760 A	10-08-1999
			DE 69714742 D1	19-09-2002
			DE 69714742 T2	15-05-2003
			EP 0915652 A1	19-05-1999
			WO 9748276 A1	24-12-1997
			US 6046134 A	04-04-2000

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 02/13235

65

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0230596	B	05-08-1987	AT 70947 T 15-01-1992
			AT 92252 T 15-08-1993
			AT 93680 T 15-09-1993
			AU 597609 B2 07-06-1990
			AU 6695986 A 02-07-1987
			BG 46594 A3 15-01-1990
			BR 8606474 A 20-10-1987
			CN 86108811 A ,B 16-09-1987
			CN 1063993 A ,B 02-09-1992
			CS 8609849 A2 13-10-1989
			DE 3683277 D1 13-02-1992
			DE 3688844 D1 09-09-1993
			DE 3688844 T2 05-01-1994
			DE 3688982 D1 07-10-1993
			DE 3688982 T2 28-04-1994
			EP 0230596 A2 05-08-1987
			EP 0347950 A2 27-12-1989
			EP 0350079 A1 10-01-1990
			ES 2038592 T3 01-08-1993
			ES 2058416 T3 01-11-1994
			ES 2058417 T3 01-11-1994
			GR 3003489 T3 17-02-1993
			HU 42258 A2 28-07-1987
			IL 81110 A 15-12-1991
			NZ 218792 A 28-08-1990
			PL 263335 A1 07-01-1988
			TR 24607 A 19-12-1991
			US 4759794 A 26-07-1988
			ZA 8609715 A 28-10-1987
			ZW 25386 A1 03-06-1987
WO 9528839	A	02-11-1995	AT 179863 T 15-05-1999
			AU 687533 B2 26-02-1998
			AU 2079095 A 16-11-1995
			BG 62752 B1 31-07-2000
			BG 100975 A 30-09-1997
			BR 9507497 A 12-08-1997
			CA 2188438 A1 02-11-1995
			CN 1149240 A ,B 07-05-1997
			CZ 9603072 A3 14-05-1997
			DE 69509649 D1 17-06-1999
			DE 69509649 T2 16-09-1999
			DK 756452 T3 15-11-1999
			EP 0756452 A1 05-02-1997
			ES 2131312 T3 16-07-1999
			WO 9528839 A1 02-11-1995
			GR 3030195 T3 31-08-1999
			HU 76944 A2 28-01-1998
			IL 113138 A 09-05-1999
			JP 10502054 T 24-02-1998
			RO 115489 B1 30-03-2000
			RU 2129372 C1 27-04-1999
			SK 134996 A3 07-05-1997
			US 5698493 A 16-12-1997
			ZA 9503234 A 03-01-1996
US 5416061	A	16-05-1995	BR 9201459 A 01-12-1992
			CA 2065523 A1 18-10-1992

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 02/13235

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5416061	A		CA 2065523 C FR 2675340 A1 IT 1254876 B RU 2093987 C1	18-10-1994 23-10-1992 11-10-1995 27-10-1997
US 4859234	A	22-08-1989	AU 2213088 A BR 8804709 A CN 1034301 A ,B MX 168616 B TR 25209 A ZA 8806780 A	25-05-1989 18-04-1989 02-08-1989 01-06-1993 26-11-1992 24-04-1991
US 5741756	A	21-04-1998	AT 188338 T AU 702902 B2 AU 6465096 A BG 63239 B1 BG 102185 A BR 9609695 A CA 2227180 A1 CN 1190867 A ,B CZ 9800101 A3 DE 69606044 D1 DE 69606044 T2 DK 840548 T3 EA 395 B1 EP 0840548 A1 ES 2140877 T3 WO 9703562 A1 GR 3032317 T3 HU 9901320 A2 IL 122620 A JP 11514338 T NZ 312748 A PL 324461 A1 PT 840548 T RO 116857 B1 SI 840548 T1 SK 5698 A3	15-01-2000 11-03-1999 18-02-1997 31-07-2001 30-04-1999 23-03-1999 06-02-1997 19-08-1998 13-05-1998 10-02-2000 14-09-2000 13-06-2000 24-06-1999 13-05-1998 01-03-2000 06-02-1997 27-04-2000 30-08-1999 23-12-2001 07-12-1999 28-01-1999 25-05-1998 28-04-2000 30-07-2001 30-04-2000 08-07-1998
WO 0143550	A	21-06-2001	AU 2842501 A WO 0143550 A2	25-06-2001 21-06-2001
US 5981432	A	09-11-1999	AT 230211 T AU 697026 B2 AU 5276396 A AU 9821898 A BR 9604943 A CA 2213498 A1 CN 1311990 A CN 1326677 A CN 1327727 A CN 1327728 A CN 1327729 A CN 1327730 A CN 1180993 A CZ 9703230 A3 DE 69625587 D1 EA 947 B1	15-01-2003 24-09-1998 30-10-1996 04-03-1999 09-06-1998 17-10-1996 12-09-2001 19-12-2001 26-12-2001 26-12-2001 26-12-2001 26-12-2001 06-05-1998 18-02-1998 06-02-2003 26-06-2000

INTERNATIONAL SEARCH REPORT
Information on patent family members

International Application No
PCT/EP 02/13235

66

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5981432	A	WO 9632013 A1	17-10-1996
		EP 0820227 A1	28-01-1998
		HR 960162 A1	31-10-1997
		HU 9801577 A2	30-11-1998
		IL 117872 A	30-04-2001
		JP 11503438 T	26-03-1999
		PL 322766 A1	16-02-1998
		SK 136697 A3	04-02-1998
		ZA 9602877 A	14-10-1996

(12) SOLICITUD INTERNACIONAL PUBLICADA DE CONFORMIDAD CON
EL TRATADO DE COOPERACION DE PATENTES (PCT)

(19) Organización Mundial de Propiedad Intelectual
Oficina Internacional

(43) Fecha de publicación internacional: 12 Junio 2003

(10) Número de publicación internacional: **WO 2003/047340 A3**

PCT

(51) Clasificación internacional de patentes⁷: **A01N 41/10**,
//(A01N 47/36, 43:70, 37/40, 25:32)

(21) Número de solicitud internacional: PCT/EP2002/013235

(22) Fecha de presentación internacional: 25 Noviembre 2002

(25) Idioma de presentación: Alemán

(26) Idioma de publicación: Alemán

(30) Fechas referentes a la prioridad:

101 60 139.5

7 Diciembre 2001

DE

(71) Solicitante (*para todos los países de la designación, exceptuando E.U.*): BAYER CROPSCIENCE GMBH [DE/DE];
Brüningstrasse 50, 65929 Frankfurt (DE).

(72) Inventores; e

(75) Inventores/Solicitantes (*únicamente para E.U.*):

HACKER, Erwin [DE/DE]; margarethenstrasse 16, 65239
Hochheim (DE). BIERINGER, Hermann [DE/DE]; Eichenweg 26,
65817 Eppstein (DE). KRÄHMER, Hansjörg [DE/DE]; Kant-
strasse 20, 65719 Hofheim(DE).

(81) Países designados (*nacional*): AE, AG, AL, AM, AU, AZ, BA,
BB, BR, BY, BZ, CA, CN, CO, CR, CU, DM, DZ, EC, GD, GE,
HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR,
LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, OM, PH, PL,
RO, RU, SC, SG, SI, TJ, TM, TN, TT, UA, US, UZ, VC, VN,
YU, ZA.

(84) Países designados (*regional*): Patente ARIPO (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Patente Eurasia (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Patente Europea (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), Patente OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Publicada: - *Con Reporte de Búsqueda Internacional*

(88) Fecha publicación del Reporte de Búsqueda internacional:
24 Junio 2004

Para una explicación de los códigos de dos letras y las otras abreviaturas, se hace referencia a las explicaciones ("Notas Guía sobre Códigos y Abreviaturas") al principio de cada edición regular de la Gaceta PCT.

(54) Título: AGENTES HERBICIDAS SINERGISTICOS

(57) Resumen: La invención se refiere a agentes herbicidas que contienen A) 2-[2-cloro-3-(2,2,2-trifluoroetoximetoximetil)-4-metilsulfonil]-benzoil]ciclohexano-1,3-diona y B) por lo menos un compuesto proveniente del grupo constituido por etoxisulfurona, flumetsulam, halosulfurona, imazamox, imazapyr, imazaquin, imazethapyr, metosulam, nicosulfurona, primisulfurona, prosulfurona, rimsulfurona, thifensulfuron-metilo, triflusal, furona, ametrina, bromoxinilo, cianazina, diurona, hexazinona, metribuzin, piridato, terbutilazina, 2,4-D, clopyralid, dicamba, diflufenzopyr, butilato, EPTC, fenoxaprop-P-etilo, acetocloro, alacloro, dimethenamida, flufenacet, metolacoloro, thenylcloro, S-metolacoloro, fluthiacet-metilo, carfentrazone-etilo, hidroxil-1-metil-3-isoxaflutol, mesotriona, sulcotriona, 4-(4-trifluorometil-2-metilsulfonilbenzoil)-5-metilpirazol, glifosato, pendimethalin, trifluralin, asulam, triaziflam, diflufenican y glufosinato-amonio contra plantas perjudiciales monocotiledóneas y dicotiledóneas. Estos agentes muestran un efecto superior en comparación con los herbicidas aplicados individualmente.