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Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

Published:

— with international search report (Art. 21(3))
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

12 August 2010

(54) Title: PESTICIDAL COMPOSITIONS

(57) Abstract: The invention disclosed in this document is related to field of pesticides and their use in controlling pests.



WO 2009/045702 A3

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2008/076373

A. CLASSIFICATION OF SUBJECT MATTER

INV. A01N43/40 A01N43/54 A01P5/00 A01P7/02 A01P7/04
ADD.

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, 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	H. BREDERECK, G. SIMCHEN, H. TRAUT: "Synthesen und Reaktionen von 4-Chlor-5-cyan-pyrimidin. Synthese von 4-Amino- und 4-Hydroxy-pyrimidin-aldehyd" CHEMISCHE BERICHTE, vol. 100, no. 11, 1967, pages 3664-3670, XP002579142 CAS: 16357-76-9	1-3
X	A. KIRPAL, E. REITER: "Über einige Derivate und Oxydationsprodukte von 2- Amino-pyridin." CHEMISCHE BERICHTE, vol. 60, no. 3, 1927, pages 664-666, XP002579143 CAS: 18087-94-0	1-3



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.

"&" document member of the same patent family

Date of the actual completion of the international search

23 April 2010

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16/06/2010

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2008/076373

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 938 908 A (MOO TSANG SIEN ET AL) 31 May 1960 (1960-05-31) CAS: 91091-53-1, 94625-28-2, 99983-03-6, 112048-77-8	1-3
X	H. BEYER, H-J HAASE, W. WILDGRUBE: "Benzidinartige Umlagerungen in der Pyridinreihe" CHEMISCHE BERICHTE, vol. 90, no. 2, 1957, pages 247-256, XP002579144 CAS: 101451-19-8	1-3
X	DATABASE CA [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 1956, COLONNA, MARTINO ET AL: "Studies of N-heterocyclic azo compounds. I. Action of halo acids on 2-phenylazopyridine" XP002579145 retrieved from STN Database accession no. 1958:1914 * abstract CAS: 99852-67-2	1-3
X	DATABASE CA [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 1956, STAFFORD, W. H. ET AL: "The reduction of azo compounds with hydrazine" XP002579146 retrieved from STN Database accession no. 1957:34856 * abstract CAS: 103862-70-0	1-3
X	DATABASE CA [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 2003, ACKERMANN, MARTIN N. ET AL: "Tetracarbonylmolybdenum complexes of 2-(phenylhydrazino)pyridine ligands. Correlations of spectroscopic data with pyridyl substituent effects" XP002579147 retrieved from STN Database accession no. 2003:91325 * abstract CAS: 141321-01-9	1-3
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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2008/076373

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE CA [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 2000, KOBRAKOV, K. I. ET AL: "Halogen-containing pyridines. 7. Synthesis and some conversions of (3,5-dichloro-2-pyridyl)hydrazine" XP002579148 retrieved from STN Database accession no. 2001:95183 * abstract CAS: 334685-39-1	1-3
X	US 2 893 816 A (MOO TSANG SIEN ET AL) 7 July 1959 (1959-07-07) CAS: 112970-98-6	1-3
X	DATABASE CA [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 1955, COLONNA, MARTINO ET AL: "Aromatic N-oxides. Action of halogenated acids on N-oxides of 2-phenylazopyridine and 2-phenylazoxypyridine" XP002579149 retrieved from STN Database accession no. 1956:56911 * abstract CAS: 857219-46-6	1-3
X	DATABASE CA [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 1951, ANDRISANO, RENATO ET AL: "Studies of pyrimidines. VIII. Reactivity of the halogen in 2-substituted 6-methyl-4-chloropyrimidines" XP002579150 retrieved from STN Database accession no. 1952:29668 * abstract CAS: 1087771-14-9	1-3
X	DATABASE WPI Section Ch, Week 198607 Thomson Scientific, London, GB; Class C02, AN 1986-046544 XP002579151 & JP 61 001665 A (ISHIHARA SANGYO KAISHA LTD) 7 January 1986 (1986-01-07) cited in the application	7-10
A	* abstract	1-3

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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2008/076373

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 196 50 378 A1 (BASF AG [DE]) 10 June 1998 (1998-06-10) cited in the application	7-10
A	page 2 tables 1,6	1-3
X	DE 36 44 799 A1 (HOECHST AG [DE]) 10 December 1987 (1987-12-10) cited in the application	7-10
A	page 3, lines 10-59; table 1	1-3

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Claims Nos.: 4-6

Independent claim 4 and dependent claims 5-6 relate to a process for gaining approval of a government to use of sell an aryl and heteroaryl 1,2-disubstituted hydrazine derivatives by submitting data to a governmental entity. The subject-matter of claims 4-6 is considered by this authority to be covered by the provisions of Rule 39.1 (iii)/67.1(iv) PCT since the said process of submitting data constitutes a method of doing business and consequently no opinion will be given on the patentability of said claims.

Continuation of Box II.2

Claims Nos.: 1, 2(partially)

The initial phase of the search revealed a very large number of documents relevant to the novelty of the hydrazine compositions of claims 1-2. So many documents were retrieved that it is impossible to determine which parts of the claim may be said to define subject-matter for which protection might be legitimately sought (Article 6 PCT). For this reason a meaningful search over the whole breadth of claims 1-2 is impossible. Consequently the search has been restricted to the hydrazine derivatives as defined in claim 3.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.2), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2008/076373

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 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.: 4-6
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☒ Claims Nos.: 1, 2(partially)
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:
see FURTHER INFORMATION sheet PCT/ISA/210
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 No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

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

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 fees, this Authority did not invite payment of additional fees.
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.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2008/076373

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2938908	A	31-05-1960	NONE	
US 2893816	A	07-07-1959	CH 384107 A	15-11-1964
			CH 373836 A	15-12-1963
			FR 1198997 A	10-12-1959
			GB 866087 A	26-04-1961
JP 61001665	A	07-01-1986	NONE	
DE 19650378	A1	10-06-1998	NONE	
DE 3644799	A1	10-12-1987	AU 7364287 A	17-12-1987
			BR 8702771 A	01-03-1988
			CN 87103906 A	24-02-1988
			DK 274987 A	05-12-1987
			EP 0248349 A2	09-12-1987
			HU 44407 A2	28-03-1988
			PT 85000 A	01-07-1987