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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

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Declarations under Rule 4.17:

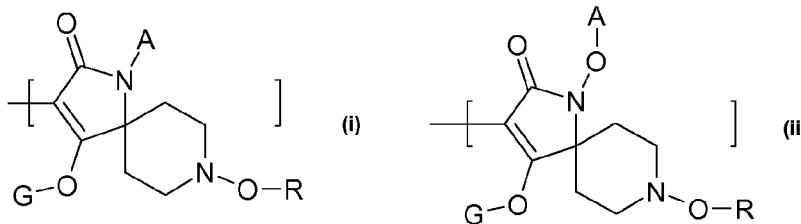
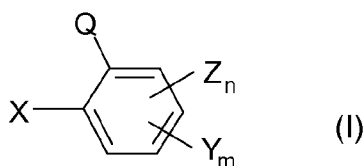
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- of inventorship (Rule 4.17(iv))

Published:

- with international search report (Art. 21(3))

[Continued on next page]

(54) Title: PESTICIDAL MIXTURES INCLUDING SPIROHETEROCYCLIC PYRROLIDINE DIONES



(57) Abstract: A pesticidal mixture comprising as active ingredient a mixture of component A and component B, wherein component A is a compound of formula (I), in which Q is i or ii wherein X, Y and Z, m and n, A, G, and R, are as defined as in claim 1, and component B is a compound selected from the insecticides as defined in claim 1. The present invention also relates to methods of using said mixtures for the control of plant pests.



— *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 September 2013

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2013/050792

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.:
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 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:

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 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.:

1-17(partially)

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

International application No
PCT/EP2013/050792

A. CLASSIFICATION OF SUBJECT MATTER
INV. A01N43/90 A01N43/12
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 practicable, search terms used)
EPO-Internal, 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.
X	WO 2009/049851 A1 (SYNGENTA PARTICIPATIONS AG [CH]; ZAMBACH WERNER [CH]; HUETER OTTMAR FR) 23 April 2009 (2009-04-23) cited in the application Tables 1-22, Tables A, C, E, F, page 47, l.19-20; page 62, l. 8; claims 1-8 -----	1-17
X	WO 2010/063670 A1 (SYNGENTA PARTICIPATIONS AG [CH]; MUEHLEBACH MICHEL [CH]; PITTERNA THOM) 10 June 2010 (2010-06-10) cited in the application Tables 1-8, 13, 15, 20-23, 25--36, 39-42, 44-47,65, 75, 77-83, P1, P2; p. 72, l. 8; p. 77, l. 16-17; p. 92, l. 28; claims 1-13 ----- -/--	1-17

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 application or patent 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 10 July 2013	Date of mailing of the international search report 16/07/2013
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Bueno Torres, Pilar

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2013/050792

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 2010/066780 A1 (SYNGENTA PARTICIPATIONS AG [CH]; SYNGENTA LTD [GB]; MUEHLEBACH MICHEL) 17 June 2010 (2010-06-17) cited in the application Tables 1-7, 12, 14, 19-23, 25-31, 40-42, 45-48, 50-51, 53-55, 58-61, 63-64, 105, 107, 111-112, P1, P2, p. 72, l. 8; p. 77, l. 16-17; p. 92, l. 27-28; claims 1-9</p> <p style="text-align: center;">-----</p>	1-17
X	<p>WO 2011/151199 A1 (SYNGENTA PARTICIPATIONS AG [CH]; MUEHLEBACH MICHEL [CH]; SCHAETZER JUE) 8 December 2011 (2011-12-08) Tables 1-4, 10-13, 19-22, 28-31, 46-49, 73-76, 82-85, 91-94, 100-103, 109-112, 118-121, 127-130, 136-139, 145-148, 190-193, 199-202, 208-211, 217-220, 226-229, 244-247, 253-256, 262-265, P1-P2; p. 102, l. 32; page 108, l. 5-6; p.123, l. 27-28; claims 1-8</p> <p style="text-align: center;">-----</p>	1-17

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2013/050792

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2013/050792

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		CN 103003239 A	27-03-2013
		EP 2576511 A1	10-04-2013
		WO 2011151199 A1	08-12-2011
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

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

1. claims: 1-17(partially)

A pesticidal mixture comprising as active ingredient a mixture of component A and component B, wherein component B is selected from spiroadiclofen and optionally spiromesifen and/or spirotetramat; a method of controlling insects, acarines or molluscs by application of this pesticidal mixture to a pest, to a locus of a pest or to a plant susceptible to a pest; a seed comprising this pesticidal mixture.

2. claims: 1-17(partially)

A pesticidal mixture comprising as active ingredient a mixture of component A and component B, wherein component B is selected from spiromesifen and optionally spiroadiclofen and/or spirotetramat; a method of controlling insects, acarines or molluscs by application of this pesticidal mixture to a pest, to a locus of a pest or to a plant susceptible to a pest; a seed comprising this pesticidal mixture.

3. claims: 1-17(partially)

A pesticidal mixture comprising as active ingredient a mixture of component A and component B, wherein component B is selected from spirotetramat and optionally spiroadiclofen and/or spiromesifen; a method of controlling insects, acarines or molluscs by application of this pesticidal mixture to a pest, to a locus of a pest or to a plant susceptible to a pest; a seed comprising this pesticidal mixture.
