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28 February 2013

(54) Title: COATING COMPOSITIONS FOR PATHOGEN CONTROL IN OILSEEDS

(57) Abstract: Coating composition for an oilseed plant seed from which roots and shoots are capable of growing, wherein the coating composition comprises an organic carrier material and one or more biological agents that possess an activity against at least one or more pathogens of the oilseed plant.



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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER

INV. A01N25/10 A01N25/14 A01N25/24 A01N43/36 A01N51/00
A01N63/00 A01P3/00 A01P7/00

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007/072775 A1 (VAN BOXTEL-VERHOEVEN LONNEKE J [NL] ET AL) 29 March 2007 (2007-03-29) abstract paragraph [0040] paragraph [0050] claims 1, 12, 13	1-39
X	US 4 297 339 A (CRAVEN RICHARD L) 27 October 1981 (1981-10-27) example 5 claims 1,3	1-39
X	US 5 283 060 A (SHIEH TSUONG R [US]) 1 February 1994 (1994-02-01) claims 1, 4,5, 6, 7 column 5, lines 1,2 column 6, lines 16-17	1-39
	-/-	

☒ 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

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"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

"Z" document member of the same patent family

Date of the actual completion of the international search

8 August 2012

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International application No

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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 199 06 491 A1 (CLARIANT GMBH [DE]) 24 August 2000 (2000-08-24) examples 1, 2, 4 column 6, line 20 - line 25 column 6, line 33 - line 36 claims 1, 7 -----	1-39
X	WO 01/78509 A2 (BAYER AG [DE]; PRIESNITZ UWE [DE]; HAPPE PETER [DE]) 25 October 2001 (2001-10-25) examples 1-3, A-C claims 3, 4 page 9, line 10 - line 13 -----	1-39
X	US 2010/291231 A1 (STADLER REINHOLD [DE] ET AL) 18 November 2010 (2010-11-18) paragraph [0034] paragraph [0080] paragraph [0095] paragraph [0101] paragraph [0361] paragraph [0369] claim 40 -----	1-39
X,P	WO 2011/148144 A1 (EXOSECT LTD [GB]; STORM CLARE GILLIAN [GB]; HUGGETT NICOLA JANE [GB]) 1 December 2011 (2011-12-01) claims 1, 9 -----	1-39
X,P	WO 2011/128639 A2 (EXOSECT LTD [GB]; STORM CLARE GILLIAN [GB]; HUGGETT NICOLA JANE [GB]) 20 October 2011 (2011-10-20) claims 1-6, 10-21 -----	1-39

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2012/000359

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.:

1-30, 33-39(completely); 31, 32(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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

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

1. claims: 1-30, 33-39(completely); 31, 32(partially)

compositions, methods, uses, plant structures etc, where the organic carrier material in the form of particles is/comprises a wax with a melting point equal to or above 50°C

2. claims: 31, 32(partially)

compositions, methods, uses, plant structures etc, where the organic carrier material in the form of particles is not/does not comprises a wax with a melting point equal to or above 50°C

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB2012/000359

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2007072775 A1	29-03-2007	AU 2006297275 A1 CA 2623740 A1 CN 101500410 A EP 1928231 A2 US 2007072775 A1 US 2011111956 A1 WO 2007041234 A2	12-04-2007 12-04-2007 05-08-2009 11-06-2008 29-03-2007 12-05-2011 12-04-2007
US 4297339 A	27-10-1981	NONE	
US 5283060 A	01-02-1994	NONE	
DE 19906491 A1	24-08-2000	AT 281505 T AU 2668800 A CA 2359491 A1 DE 19906491 A1 EP 1157085 A1 ES 2231157 T3 JP 2002537309 A WO 0049107 A1	15-11-2004 04-09-2000 24-08-2000 24-08-2000 28-11-2001 16-05-2005 05-11-2002 24-08-2000
WO 0178509 A2	25-10-2001	AU 6217101 A CN 1422116 A DE 10018396 A1 EP 1276373 A2 JP 2003530407 A US 2003108584 A1 WO 0178509 A2	30-10-2001 04-06-2003 18-10-2001 22-01-2003 14-10-2003 12-06-2003 25-10-2001
US 2010291231 A1	18-11-2010	AR 068544 A1 AU 2008303560 A1 CA 2698806 A1 CN 101808511 A EP 2205067 A1 JP 2010540418 A NZ 583712 A RU 2010115966 A US 2010291231 A1 WO 2009040339 A1	18-11-2009 02-04-2009 02-04-2009 18-08-2010 14-07-2010 24-12-2010 27-04-2012 10-11-2011 18-11-2010 02-04-2009
WO 2011148144 A1	01-12-2011	GB 2481881 A WO 2011148144 A1	11-01-2012 01-12-2011
WO 2011128639 A2	20-10-2011	GB 2480899 A WO 2011128639 A2	07-12-2011 20-10-2011