



(51) International Patent Classification:

A01N 25/08 (2006.01) C05F 11/10 (2006.01)
A01N 25/00 (2006.01) A01N 25/12 (2006.01)
C05G 3/00 (2006.01)

(21) International Application Number:

PCT/GB2012/000367

(22) International Filing Date:

19 April 2012 (19.04.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

1106764.2 20 April 2011 (20.04.2011) GB

(71) Applicant (for all designated States except US): **EXO-
SECT LIMITED** [GB/GB]; Leylands Business Park, Colden
Common, Winchester, Hants SO2 1 1TH (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **JESSOP, Nicholas
Hugh Hylton** [GB/GB]; Leylands Business Park, Colden
Common, Winchester, Hants SO2 1 1TH (GB).

(74) Agent: **WALTHER WOLFF & CO;** 19 Catherine Place,
London SW1E 6DX (GB).

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

AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,
MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD,
SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

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:

13 June 2013

(54) Title: COMPOSITION FOR SEED GROWTH AND VIGOUR IN MONOCOTS

(57) Abstract: Coating composition for applying to monocot plant structures from which roots and shoots are capable of growing, wherein the said coating composition comprises one or more organic materials having a melting point of $\geq 50^{\circ}$ Centigrade and one or more additives, methods of making such compositions and coated monocot plant structures such as seeds of monocot plants.



INTERNATIONAL SEARCH REPORT

International application No

PCT/GB2012/00Q367

A. CLASSIFICATION OF SUBJECT MATTER

INV. A01N25/08 A01N25/00 C05G3/00 C05F11/10 A01N25/12
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 C05G C05F

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 2 936 226 A (KAUFMAN JOHN J ET AL) 10 May 1960 (1960-05-10) column 1, line 22 - line 30 column 1, line 46 - line 48 column 2, line 46 - line 51 column 2, line 59 examples claims 1,2	1-5, 12, 13, 20-24
X	US 2007/072775 AI (VAN BOXTEL-VERHOEVEN LONNEKE J [NL] ET AL) 29 March 2007 (2007-03-29) paragraphs [0002], [0040], [0046], [0050], [0051], [0053] paragraphs [0065] - [0083]; examples 1-5 claims 1, 5, 7, 8, 12, 13 ----- -/--	1-5, 12, 13, 20-24



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

4 January 2013

Date of mailing of the international search report

22/04/2013

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

Panday, Narendra

INTERNATIONAL SEARCH REPORT

International application No

PCT/GB2012/00Q367

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 118 158 A (BIOCHEMICAL MARKETING CORP) 26 October 1983 (1983-10-26) page 7, lines 4-8 Formulations 7, 8; Example VIII page 10, line 28 - line 35 tables 4-7, 9-39 claims 1, 7, 8, 9, 15, 30 -----	1-5, 12, 13,20-24
X	US 5 283 060 A (SHI EH TSUONG R [US]) 1 February 1994 (1994-02-01) claims 1-7 column 5, lines 1,2 column 6, line 16 - line 15 -----	1-5, 12, 13,20-24
X	wo 99/07654 A1 (UNIV BEN GURION [IL]; MARKUS ARIE [IL]; WESMAN ZEEV [IL]; WOLF DAVID) 18 February 1999 (1999-02-18) page 3, line 17 - line 26 claims 1,2 -----	1-5, 12, 13,20-24
X	wo 01/78509 A2 (BAYER AG [DE]; PRIESNITZ UWE [DE]; HAPPE PETER [DE]) 25 October 2001 (2001-10-25) page 2, line 25 examples 1-3, A-C -----	1-5, 12, 13,20-24
T	unknown author: "Wax", wikipedia, the free encyclopedia , 25 November 2012 (2012-11-25), XP002688447, Retrieved from the Internet: URL: http://en.wikipedia.org/wiki/Wax [retrieved on 2012-12-03] page 1, lines 1-6 -----	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2012/00Q367

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.:

see annexes

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: 1-5, 12, 13, 20-24

A monocot plant structure coating composition according to claim 1 and monocot plant structure coated therewith

2. claims: 5-11, 14-19

Methods for preparing a monocot plant structure coating composition according to claim 1 and the monocot plant structure coated therewith; use of organic material in such methods (e.g. claim 6)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB2012/00Q367

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2936226	A	10-05-1960	NONE	

US 2007072775	AI	29-03-2007	AU 2006297275 AI	12-04-2007
			BR PI0616469 A2	25-12-2012
			CA 2623740 AI	12-04-2007
			CN 101500410 A	05-08-2009
			EP 1928231 A2	11-06-2008
			EP 2545775 A2	16-01-2013
			US 2007072775 AI	29-03-2007
			US 2011111956 AI	12-05-2011
			WO 2007041234 A2	12-04-2007

GB 2118158	A	26-10-1983	EP 0103644 AI	28-03-1984
			GB 2118158 A	26-10-1983
			JP S59500319 A	01-03-1984
			NO 834008 A	03-11-1983
			PT 77107 A	01-08-1983
			WO 8303041 AI	15-09-1983

US 5283060	A	01-02-1994	NONE	

WO 9907654	AI	18-02-1999	AU 741233 B2	29-11-2001
			AU 8239098 A	01-03-1999
			CA 2299334 AI	18-02-1999
			EP 1012129 AI	28-06-2000
			IL 121496 A	14-06-2001
			NZ 502497 A	21-12-2001
			WO 9907654 AI	18-02-1999

WO 0178509	A2	25-10-2001	AU 6217101 A	30-10-2001
			CN 1422116 A	04-06-2003
			DE 10018396 AI	18-10-2001
			EP 1276373 A2	22-01-2003
			JP 2003530407 A	14-10-2003
			US 2003108584 AI	12-06-2003
			WO 0178509 A2	25-10-2001
