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(71) Applicant: RUDRARAM RESEARCH INSTITUTE OF AGRICULTURE & SCIENCES [IN/IN]; Agribusiness and Innovation Platform, International Crops Research Institute for the Semi-Arid Tropics, Patancheru, Hyderabad, Andhra Pradesh 502324 (IN).

(72) Inventor: PRASAD, Yandapalli, Durga; Agribusiness and Innovation Platform, International Crops Research Institute for the Semi-Arid Tropics, Patancheru, Hyderabad, Andhra Pradesh 502324 (IN).

(74) Agents: TRIVEDI, Anupam et al.; K & S Partners, Plot 109, Sector 44, Gurgaon, National Capital Region 122003 (IN).

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AO, AT, AU, AZ, BA, BB, BG, BH, BN, 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, 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, PA, 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.

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Declarations under Rule 4.17:

— as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

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

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

30 October 2014

(54) Title: SEED COAT COMPOSITION

(57) Abstract: The present invention relates to A seed coating composition comprising agro-polymer with nitrogen containing fertilizers and / or urea aldehydes, and /or macro and micronutrients, and /or with hormone solution and / or with MSM solution and/or phosphates and/or functional transition metal silicates (FTMS) and / or solution mixture of poly vinyl alcohol (BIJAM+) and/or low molecular weight organic acids and /or potassium nitrate in a predetermined proportions, wherein seed optionally coated with pesticide mixture, the said composition comprising agro-polymer, organic acid and BIJAM+ is in the ratio of 1.0:0.01:0.01 to 1:3:5.



WO 2014/016751 A3

INTERNATIONAL SEARCH REPORT

International application No PCT/IB2013/055993

A. CLASSIFICATION OF SUBJECT MATTER
 INV. C05D9/00 C05G3/00 C05D9/02 C05F11/10
 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)
 C05G C05D 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, BIOSIS, COMPENDEX, 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	US 2010/024501 A1 (PRASAD DURGA YANDAPALLI [IN]) 4 February 2010 (2010-02-04) paragraph [0011] - paragraph [0020] paragraph [0036] claims	1, 4-15, 18-23
X	DATABASE WPI Week 200951 Thomson Scientific, London, GB; AN 2009-K03731 XP002727165, & CN 101 440 001 A (YU C) 27 May 2009 (2009-05-27) abstract	1-13, 16-23
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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

15 July 2014

Date of mailing of the international search report

23/07/2014

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

Rodriguez Fontao, M

INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2013/055993

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 2002/174697 A1 (REID BRUCE [US] ET AL) 28 November 2002 (2002-11-28) claims paragraph [0018] paragraph [0044] paragraph [0071] - paragraph [0072] paragraph [0061] -----	1
X	US 2009/318293 A1 (MARKS DAVID [GB]) 24 December 2009 (2009-12-24) paragraph [0045] - paragraph [0047] paragraph [0049] paragraph [0052] claims -----	1-3,16, 17,19,20
A	US 2005/279712 A1 (PRASAD YANDAPALLI D [IN] PRASAD YANDAPALLI DURGA [IN]) 22 December 2005 (2005-12-22) the whole document -----	1-23
A	EP 2 319 820 A1 (BIJAM BIOSCIENCES PRIVATE LTD [IN]) 11 May 2011 (2011-05-11) the whole document -----	1-23

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2013/055993

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.: 1-23(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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 1-23(partially)

The terms "agropolymer", "nitrogen containing fertilizers", "urea aldehydes", "macro and micronutrients", "hormone solution", "MSM solution", "phosphates", "functional transition metal silicates (FTMS)", "solution mixture of poly vinyl alcohol (BIJAM+)", "low molecular weight organic acids" as found in claim 1 relate to an extremely large number of possible compounds and micro-organisms.

Furthermore the terms "MSM" and "BIJAM+" are not further characterised in the description.

The passage in the same claim relating to the possible mixtures of the different components of a "composition comprising agro-polymer with nitrogen containing fertilizers and / or urea aldehydes, and / or macro and micronutrients, and / or with hormone solution and / or with MSM solution and/or phosphates and/or functional transition metal silicates (FTMS) and / or solution mixture of poly vinyl alcohol (BIJAM+) and/or low molecular weight organic acids and / or potassium nitrate" encompasses again a an unduly broad number of combinations of the above cited compounds. Support and disclosure in the sense of Article 6 and 5 PCT is to be found only for a very small proportion of these compounds and their combinations, namely only for those disclosed in the examples.

It is furthermore, not possible at present and in view of the description to ascertain which of the possible combinations falling under the scope of present claim 1 will present the alleged technical effect contributing to solve the stated problem.

The search of claims has therefore been restricted to a composition comprising agro-polymer, organic acid and BIJAM+ in the ratio of 1.0:0.01:0.01 to 1:3:5

where the agropolymer is such as described in pages 5 and 6 of the description under the headings procedure 1 and 2;

the organic acid is fulvic acid which is the only acid mentioned in the examples;

and "BIJAM+" is the coating material as the product obtains in the process as described in page 11, lines 18 to 21.

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 Guidelines C-IV, 7.2), should the problems which led to the Article 17(2) declaration be

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

overcome.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2013/055993

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2013/055993

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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		WO 2011055216 A1	12-05-2011
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