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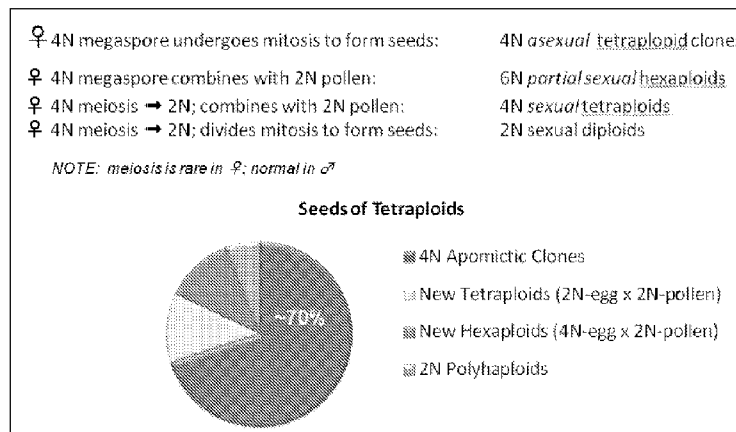


FIG. 1

(57) Abstract: The present disclosure relates to materials and methods useful for improving the efficacy of a plant breeding program such as, for example, the method for producing hybrid seeds in a facultative apomictic crop species, which in turns are useful for, for example, commercial production of highly uniform hybrid progeny. Hybrid seeds produced by such improved breeding methods, and plant grown from such hybrid seeds are also within the scope of the present invention. The disclosure further relates to processes for making a plant-derived product derived from any of the foregoing hybrid plants, and plant-derived products produced by such processes.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2015/001627

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(8) - A01H 1/00 (2015.01)
 CPC - A01H 1/00 (2015.12)
 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)
 IPC(8) - A01H 1/00, 1/02, 1/04, 5/00; C12N 15/00 (2015.01)
 CPC - A01H 1/00, 1/02, 1/04, 5/00; C12N 15/00 (2015.12)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 US Classes - 800/260, 266, 270, 271, 298

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 Orbit, Google Patents, PubMed, Google

Search terms used: plant breeding hybrid seeds cloned plant line apomixis apomictic facultative

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| X | GORE et al. "Complex Ploidy Level Variation in Guayule Breeding Programs," Crop Science, 15 November 2010 (15.11.2010), Vol. 51, Pgs. 210-216. entire document | 29 |
| X | US 6,239,327 B1 (GROSSNIKLAS et al) 29 May 2001 (29.05.2001) entire document | 30 |
| Y | US 7,638,680 B2 (CARMAN) 29 December 2009 (29.12.2009) entire document | 1-10 |
| Y | US 2014/0033342 A1 (GUTTERSON et al) 30 January 2014 (30.01.2014) entire document | 1-10 |
| A | US 7,442,850 B2 (WU et al) 28 October 2008 (28.10.2008) entire document | 1-10, 29, 30 |

Further documents are listed in the continuation of Box C. See patent family annex.

| | |
|---|--|
| * Special categories of cited documents: | "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 |
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| "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) | "&" document member of the same patent family |
| "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 | |

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2015/001627

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.: 11-28
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 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.