

## PATENT ASSIGNMENT

Electronic Version v1.1  
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| SUBMISSION TYPE:   | NEW ASSIGNMENT                                 |               |                |                     |            |                |            |               |            |                |            |
|--|--|---------------|----------------|---------------------|------------|----------------|------------|---------------|------------|----------------|------------|
| NATURE OF CONVEYANCE:  | ASSIGNMENT                                     |               |                |                     |            |                |            |               |            |                |            |
| CONVEYING PARTY DATA   |  |               |                |                     |            |                |            |               |            |                |            |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Dechun Wang</td> <td>01/15/2013</td> </tr> <tr> <td>Carmille Bales</td> <td>01/15/2013</td> </tr> <tr> <td>Jiazheng Yuan</td> <td>01/15/2013</td> </tr> <tr> <td>Zhongnan Zhang</td> <td>01/15/2013</td> </tr> </tbody> </table> |  | Name          | Execution Date | Dechun Wang         | 01/15/2013 | Carmille Bales | 01/15/2013 | Jiazheng Yuan | 01/15/2013 | Zhongnan Zhang | 01/15/2013 |
| Name   | Execution Date                                 |               |                |                     |            |                |            |               |            |                |            |
| Dechun Wang  | 01/15/2013                                     |               |                |                     |            |                |            |               |            |                |            |
| Carmille Bales   | 01/15/2013                                     |               |                |                     |            |                |            |               |            |                |            |
| Jiazheng Yuan  | 01/15/2013                                     |               |                |                     |            |                |            |               |            |                |            |
| Zhongnan Zhang   | 01/15/2013                                     |               |                |                     |            |                |            |               |            |                |            |
| RECEIVING PARTY DATA   |  |               |                |                     |            |                |            |               |            |                |            |
| Name:  | Board of Trustees of Michigan State University |               |                |                     |            |                |            |               |            |                |            |
| Street Address:  | 450 Administration Building                    |               |                |                     |            |                |            |               |            |                |            |
| City:  | East Lansing                                   |               |                |                     |            |                |            |               |            |                |            |
| State/Country:   | MICHIGAN                                       |               |                |                     |            |                |            |               |            |                |            |
| Postal Code:   | 48824-1046                                     |               |                |                     |            |                |            |               |            |                |            |
| PROPERTY NUMBERS Total: 1  |  |               |                |                     |            |                |            |               |            |                |            |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13567884</td> </tr> </tbody> </table>  |  | Property Type | Number         | Application Number: | 13567884   |                |            |               |            |                |            |
| Property Type  | Number   |               |                |                     |            |                |            |               |            |                |            |
| Application Number:  | 13567884                                       |               |                |                     |            |                |            |               |            |                |            |
| CORRESPONDENCE DATA  |  |               |                |                     |            |                |            |               |            |                |            |
| Fax Number:  | 6057911857                                     |               |                |                     |            |                |            |               |            |                |            |
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| Phone:   | 6123736900                                     |               |                |                     |            |                |            |               |            |                |            |
| Email:   | jolinares@slwip-rc.com                         |               |                |                     |            |                |            |               |            |                |            |
| Correspondent Name:  | Schwegman Lundberg & Woessner, P.A.            |               |                |                     |            |                |            |               |            |                |            |
| Address Line 1:  | PO Box 2938                                    |               |                |                     |            |                |            |               |            |                |            |
| Address Line 4:  | Minneapolis, MINNESOTA 55402                   |               |                |                     |            |                |            |               |            |                |            |
| ATTORNEY DOCKET NUMBER:  | 3000.125US1                                    |               |                |                     |            |                |            |               |            |                |            |
| NAME OF SUBMITTER:   | Janine Olinares                                |               |                |                     |            |                |            |               |            |                |            |
| Total Attachments: 7<br>source=3000 125US1 - Assignment1#page1.tif   |  |               |                |                     |            |                |            |               |            |                |            |

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RECORDATION FORM COVER SHEET  
PATENTS ONLY

Atty Ref/Docket No.: 3000.125US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Dechun Wang, Carmille Bales, Jiazheng Yuan,  
Zhongnan Zhang

Additional name(s) of conveying party(ies) attached?

[ ] Yes [X] No

3. Nature of conveyance:

[X] Assignment [ ] Merger  
[ ] Security Agreement [ ] Change of Name  
[ ] Other

Execution Date: January 15, 2013, January 15, 2013,  
January 15, 2013, January 15, 2013

2. Name and address of receiving party(ies):

Name: Board of Trustees of Michigan State University

Street Address: 450 Administration Building

City: East Lansing State: MI Zip: 48824-1046  
Country: United States of America

Additional name(s) & address(es) attached? [ ] Yes [X] No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. 13/567,884, filed August 6, 2012

Additional numbers attached? [ ] Yes [X] No

5. Name and address of party to whom correspondence  
concerning document should be mailed:

Name: Robin A. Chadwick

Address:

Schwegman, Lundberg & Woessner, P.A.  
P.O. Box 2938  
Minneapolis, MN 55402-0938

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00

[ ] Enclosed

[X] Authorized to be charged to deposit account  
19-0743

8. Please charge any additional fees or credit any over  
payments to our Deposit Account No.: 19-0743

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy  
of the original document.

Robin A. Chadwick/Reg. No. 36,477

Name of Person Signing

Robin A. Chadwick  
Signature

January 17, 2013

Date

Total number of pages including cover sheet: 6

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks  
Mail Stop Assignment Recordation Services  
P.O. Box 1450  
Alexandria, VA 22313-1450

PATENT  
REEL: 029650 FRAME: 0508

### **ASSIGNMENT**

WHEREAS, Dechun Wang, Carmille Bales, Jiazheng Yuan and Zhongnan Zhang (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are described in a patent application filed on August 6, 2012, which application was assigned US patent application serial number 13/567,884, and which is titled GENES AND SNP MARKERS FOR APHID RESISTANT GENES FROM SOYBEAN LINES PI 567541B, PI567543C, AND PI 567598B; which are described in a patent application filed on November 26, 2008, which application was assigned US application serial number 12/324,331, and which is titled RESISTANCE TO SOYBEAN APHID IN EARLY MATURING SOYBEAN GERMPLASM; which are described in a patent application filed on May 18, 2006, which application was assigned US application serial number 11/436,262, and which is titled RESISTANCE TO SOYBEAN APHID IN EARLY MATURING SOYBEAN GERMPLASM; which are described in a patent application filed on May 18, 2005, which application was assigned US application serial number 60/682,583, and which is titled RESISTANCE TO SOYBEAN APHID IN EARLY MATURING SOYBEAN GERMPLASM.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to Board of Trustees of Michigan State University (the "Assignee"), a corporation of the State of Michigan, having a place of business at 450 Administration Building, East Lansing, MI 48824-1046, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the Invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-

**Assignment**

Assignors: Dechun Wang et al.

Title: GENES AND SNP MARKERS FOR APHID RESISTANT GENES FROM SOYBEAN LINES PI 567541B, PI567543C, AND PI

567598B

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Docket No: 3000.125US1

Client Ref. No. TEC2012-0097-01CIP1

identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such Invention to the Assignee;

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the Invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention;

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

Assignment

Assignors: Dechun Wang et al.

Title: GENES AND SNP MARKERS FOR APHID RESISTANT GENES FROM SOYBEAN LINES PI 567541B, PI567543C, AND PI 567598B

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Docket No: 3000.12SUS1

Client Ref. No. TEC2012-0097-01CIP1

Assignor:

(Signature):



Name: Dechun Wang

City/State: Okemos, MI

Date:

1/15/2013

Assignment

Assignors: Dechun Wang et al.

Docket No: 3000.125US1

Client Ref No: TEC2012-0097-01CIP1

Title: GENES AND SNP MARKERS FOR APHID RESISTANT GENES FROM SOYBEAN LINES PI 567541B, PI 567543C, AND PI 567598B

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Assignor:

(Signature):  \_\_\_\_\_

Name: Carmille Bales

City/State: East Lansing, MI

Date: 1/15/13

Assignment

Assignors: Dechun Wang et al.

Title: GENES AND SNP MARKERS FOR APHID RESISTANT GENES FROM SOYBEAN LINES PI 567541B, PI567543C, AND PI 567598B

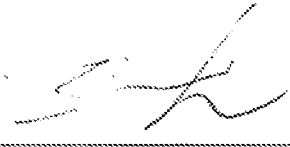
Docket No: 3000.125US1

Client Ref. No. TEC2012-0097-01CPI

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Assignor:



(Signature): \_\_\_\_\_

Name: Jiazheng Yuan

City/State: East Lansing/MI

Date: 1/15/2013



Assignment

Assignors: Dechun Wang et al.

Docket No: 3000,125US1

Client Ref. No. TEC2012-0097-01CIP1

Title: GENES AND SNP MARKERS FOR APHID RESISTANT GENES FROM SOYBEAN LINES PI 567541B, PI567543C, AND PI 567598B

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Assignor:

(Signature): Zhongnan Zhang

Name: Zhongnan Zhang

City/State: Lansing, MI Zionsville, IN

ZZN. 1/15/2013

Date: 1/15/2013