

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM471707

|                              |                   |
|------------------------------|-------------------|
| <b>SUBMISSION TYPE:</b>      | NEW ASSIGNMENT    |
| <b>NATURE OF CONVEYANCE:</b> | SECURITY INTEREST |

**CONVEYING PARTY DATA**

| Name                          | Formerly                       | Execution Date | Entity Type                         |
|-------------------------------|--------------------------------|----------------|-------------------------------------|
| Global Sorghum Solutions, LLC | FORMERLY Sorghum Partners, LLC | 02/28/2018     | Limited Liability Company: DELAWARE |
| Chromatin, Inc.               |                                | 02/28/2018     | Corporation: DELAWARE               |
| Chromatin Germplasm, LLC      |                                | 02/28/2018     | Limited Liability Company: DELAWARE |
| Chromatin Holding, LLC        |                                | 02/28/2018     | Limited Liability Company: DELAWARE |
| Marathon AG Services, LLC     |                                | 02/28/2018     | Limited Liability Company: DELAWARE |
| Chromatin Farms, LLC          |                                | 02/28/2018     | Limited Liability Company: DELAWARE |

**RECEIVING PARTY DATA**

|                        |  |
|------------------------|--|
| <b>Name:</b>           | CIBC Bank USA, formerly known as The PrivateBank and Trust Company |
| <b>Street Address:</b> | 120 S. LaSalle Street  |
| <b>City:</b>           | Chicago  |
| <b>State/Country:</b>  | ILLINOIS   |
| <b>Postal Code:</b>    | 60603  |
| <b>Entity Type:</b>    | National Banking Association: ILLINOIS                             |

**PROPERTY NUMBERS Total: 15**

| Property Type               | Number   | Word Mark                                |
|-----------------------------|----------|--|
| <b>Registration Number:</b> | 4912235  | BMR PRODUCTION PLUS                      |
| <b>Registration Number:</b> | 4618263  |  |
| <b>Registration Number:</b> | 4610368  | CUSTOMIZED BY CHROMATIN RENEWABLE BY NAT |
| <b>Registration Number:</b> | 4610369  | CUSTOMIZED BY CHROMATIN RENEWABLE BY NAT |
| <b>Registration Number:</b> | 4706608  | DON'T SETTLE FOR LESS                    |
| <b>Registration Number:</b> | 3837689  |  |
| <b>Registration Number:</b> | 4917080  | NUTRI+PLUS BMR                           |
| <b>Registration Number:</b> | 4917079  | NUTRI+PLUS BMR                           |
| <b>Serial Number:</b>       | 87093295 | POWERED BY CHROMATIN                     |
| <b>Registration Number:</b> | 4907319  | PRODUCTION PLUS                          |
| <b>Registration Number:</b> | 4821416  | PRODUCTIONPLUS                           |

TRADEMARK

| Property Type        | Number  | Word Mark        |
|----------------------|---------|------------------|
| Registration Number: | 4973464 | RESTORE          |
| Registration Number: | 4978344 |                  |
| Registration Number: | 2653396 | SORGHUM PARTNERS |
| Registration Number: | 3082785 | SORGHUM PARTNERS |

**CORRESPONDENCE DATA**

**Fax Number:** 3125802201

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

**Phone:** 3125805062

**Email:** Drogers@thompsoncoburn.com

**Correspondent Name:** Diona Rogers

**Address Line 1:** 55 E. Monroe

**Address Line 2:** 37th Floor

**Address Line 4:** Chicago, ILLINOIS 60603

|                           |                   |
|---------------------------|-------------------|
| <b>NAME OF SUBMITTER:</b> | Diona E. Rogers   |
| <b>SIGNATURE:</b>         | /Diona E. Rogers/ |
| <b>DATE SIGNED:</b>       | 04/27/2018        |

**Total Attachments: 19**

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## INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement (this "**Agreement**") is executed and delivered as of March 22, 2018, but effective as of February 28, 2018 (the "Effective Date"), by **GLOBAL SORGHUM SOLUTIONS, LLC**, a Delaware limited liability company formerly known as Sorghum Partners, LLC ("**Borrower**"), **CHROMATIN, INC.**, a Delaware corporation ("**Chromatin**"), **CHROMATIN GERMPLOASM, LLC**, a Delaware limited liability company ("**Germplasm**"), **CHROMATIN HOLDING, LLC**, a Delaware limited liability company ("**Holdings**"), **MARATHON AG SERVICES, LLC**, a Delaware limited liability company ("**Marathon**"), and **CHROMATIN FARMS, LLC**, a Delaware limited liability company ("**Chromatin Farms**"; together with Borrower, Chromatin, Germplasm, Holdings and Marathon, are each individually a "**Loan Party**" and collectively, the "**Loan Parties**"), to **CIBC BANK USA**, formerly known as The PrivateBank and Trust Company ("**Lender**").

### WITNESSETH:

WHEREAS, prior hereto, Lender has provided certain extensions of credit, loans and other financial accommodations (the "**Financial Accommodations**") to the Borrower evidenced by, among other documents, (i) that certain Loan and Security Agreement dated as of May 28, 2014, as amended by that certain First Amendment to Loan and Security Agreement dated as of September 3, 2015, that certain Second Amendment to Loan and Security Agreement dated as of May 19, 2016, that certain Third Amendment to Loan and Security Agreement dated as of September 29, 2017, but effective as of August 26, 2017, and that certain Fourth Amendment to Loan and Security Agreement dated as of November 30, 2017, but effective as of October 25, 2017, and that certain Forbearance Agreement and Fifth Amendment to Loan and Security Agreement dated as of the date hereof, each by and between Borrower and Lender (as such Loan and Security Agreement may be further amended or restated from time to time collectively, the "**Loan Agreement**"), and (ii) the other Loan Documents;

WHEREAS, contemporaneously herewith, the Loan Parties desire Lender to provide certain additional extensions of credit and other financial accommodations (the "Additional Financial Accommodations") pursuant to the terms and provision of that certain Forbearance Agreement and Fifth Amendment to Loan and Security Agreement dated as of the date hereof, by and between Borrower and Lender (the "Fifth Amendment to Loan Agreement"); and

WHEREAS, Lender is willing to provide the Additional Financial Accommodations pursuant to the Fifth Amendment to Loan Agreement, provided, among other things, Loan Parties execute and deliver this Agreement to Lender.

NOW, THEREFORE, in consideration of the Financial Accommodations, the mutual promises and understandings of Loan Parties and Lender set forth herein, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Loan Party covenants unto and agrees with Lender as follows:

1. **Incorporation of Loan Agreement.** The Loan Documents and the terms and provisions thereof are hereby incorporated herein in their entirety by this reference thereto. All terms in this Agreement, including the Exhibits and Schedules, which have an initial capital letter where not required by the rules of grammar, and which are not otherwise defined herein, are used herein as defined in the Loan Agreement.

2. **Collateral Assignment of Intellectual Property.** To secure the full and timely payment and performance of the Obligations, each Loan Party hereby grants and conveys to Lender, a security interest and lien in and to all of such Loan Party's right, title and interest in and to all of its now owned or existing and hereafter acquired or arising, but excluding the "Excluded IP" (hereinafter defined):

A. (i) trademarks, trademark registrations and applications therefor, including, without limitation, the trademarks, trademark registrations and applications listed on Schedule "A", (ii) renewals thereof, (iii) all income, royalties, damages and payments now and hereafter due or payable under and with respect thereto, including, without limitation, damages and payments for past or future infringements thereof, (iv) the right to sue for past, present and future infringements thereof, and (v) all rights corresponding thereto throughout the world (collectively, the "***Trademarks***");

B. (i) patents, patent registrations and applications therefor, including, without limitation, the inventions and improvements claimed in connection therewith, and the patents, patent registrations and the applications listed on Schedule "B", (ii) renewals, reissues, divisions, continuations, extensions and continuations-in-part thereof, (iii) all income, royalties, damages and payments now or hereafter due or payable under or with respect thereto, including, without limitation, damages and payments for past or future infringements thereof, (iv) the right to sue for past, present and future infringements thereof; and (v) all rights corresponding thereto throughout the world (collectively, the "***Patents***");

C. (i) copyrights and applications for registration, including, without limitation, the copyrights and applications for registration listed on Schedule "C", (ii) renewals thereof, (iii) all income, royalties, damages and payments now and hereafter due or payable under or with respect thereto, including, without limitation, damages and payments for past or future infringements thereof, (iv) the right to sue for past, present and future infringements thereof, and (v) all rights corresponding thereto throughout the world (collectively, the "***Copyrights***");

D. license agreements for Trademarks, Patents and Copyrights, whether such Loan Party is a licensor or licensee under any such license agreement, and the right to prepare for sale, sell and advertise for sale all "Inventory" as defined in the Loan Agreement now or hereafter owned by such Loan Party and now or hereafter covered by such licenses (collectively, the "***Licenses***"); and

E. the goodwill of such Loan Party's business connected with and symbolized by the Trademarks, Patents, Copyrights and Licenses.

All of the foregoing, property, interests and rights described above is collectively the "***Intellectual Property Collateral***". Notwithstanding the foregoing, the Intellectual Property Collateral shall not include "Excluded IP" (as hereinafter defined). "Excluded IP" means any license agreement for Intellectual Property whereby a Loan Party is the licensee and the licensor is not an Affiliate of any Loan Party that is now or hereafter held by such Loan Party but only to the extent that such Intellectual Property contains a term or is subject to a rule of law, statute or regulation that restricts, prohibits, or requires a consent (that has not been obtained) of a Person (other than any Loan Party) to, the creation, attachment or perfection of the security interest granted herein, and any such restriction, prohibition and/or requirement of consent is effective and enforceable under applicable law and is not rendered ineffective by applicable law (including, without limitation, pursuant to Sections 9-406, 9-407, 9-408 or 9-409 of the UCC); provided, however, that (x) Excluded IP shall not include, any Proceeds of any item of Intellectual Property, and (y) any item of Intellectual Property that at any time ceases to satisfy the

criteria for Excluded IP (whether as a result of the applicable Loan Party obtaining any necessary consent, any change in any rule of law, statute or regulation, or otherwise), shall no longer be Excluded IP.

This Agreement is made for collateral purposes only. Loan Parties acknowledge and agree that solely upon the occurrence and during the continuation of an Event of Default, and upon written notice to Loan Parties, the Intellectual Property Collateral is and shall be immediately conveyed to Lender without any further action by any party, and Lender has and shall have the power to use and/or sell the Intellectual Property Collateral. Loan Parties covenant and agree to execute and deliver to Lender all agreements, instruments, documents and other written matter that Lender may reasonably request, in form and substance acceptable to Lender, to perfect and maintain perfected Lender's security interests and lien in and to the Intellectual Property Collateral and to consummate the transactions contemplated by this Paragraph 2.

Lender and Loan Parties acknowledge and agree that while the grant of a security interest set forth above shall encompass all registered and non-registered Intellectual Property Collateral, the Schedule A, B and C attached hereto shall only list the registered Trademarks, Patents and Copyrights owned by each Loan Party. Schedule D lists all material non-registered Intellectual Property Collateral owned by each Loan Party. Upon Lender's request, in its commercially reasonable discretion, Loan Parties shall provide additional details reasonably requested by Lender regarding all Intellectual Property Collateral and do any and all reasonable acts and execute any and all reasonable instruments, documents and agreements reasonably required by Lender to further evidence or perfect Lender's security interest in the non-registered Intellectual Property Collateral. Notwithstanding the foregoing, if no Event of Default then exists and no Forbearance Period is then in effect with respect to Events of Default, the Loan Parties shall not be required to reimburse Lender for costs or expenses incurred in connection with making filings or taking any other such actions to record or perfect Lender's security interest in the Intellectual Property Collateral outside of the United States.

### 3. **Restrictions on Future Agreements.**

A. Loan Parties agree that until the Obligations shall have been paid in full in cash and the Loan Documents have been terminated, Loan Parties will not, without Lender's prior written consent, enter into any document, instrument or agreement that would constitute a breach of Loan Parties' obligations under this Agreement. Loan Parties further agree that they will not take any action, or permit any action to be taken by others subject to their control, including licensees, or fail to take any action, that would affect the validity or enforcement of the rights granted to Lender under this Agreement except (i) in the event that such Loan Party has reasonably determined that any of the foregoing rights has de minimus economic value to it, and Lender has provided its consent thereto, such consent to not be unreasonably withheld; (ii) in the event that a Loan Party determines in its reasonable business judgment that it is reasonable to abandon any application or registration for Intellectual Property Collateral and Lender has provided its consent thereto, such consent to not be unreasonably withheld, and (iii) with respect to the Intellectual Property identified on Schedule "E" attached hereto, which Intellectual Property the Loan Parties intend to abandon because Loan Parties have determined such Intellectual Property has de minimus economic value. Notwithstanding the foregoing provisions of this Section 3.A. (i) during the Forbearance Period and (ii) thereafter, unless the Lender has requested in writing that the Loan Parties no longer do so, Loan Parties may license or sublicense on an exclusive or non-exclusive basis to (i) unaffiliated third parties any Intellectual Property Collateral in the ordinary course of business on an arm's length basis or (ii) to another Loan Party that is a party to this Agreement any Intellectual Property Collateral, in each case, to the extent such license or sublicense shall not materially and adversely interfere with the Loan Parties' business, operations or value, or the value of the Intellectual Property

Collateral. In addition, notwithstanding the foregoing provisions of this Section 3.A., Lender acknowledges and agrees that Loan Parties may enter into (i) the license agreement contemplated in Section 2 of that certain Memorandum of Understanding dated as of January 29, 2018 between Chromatin, Inc. and KWS SAAT SE or its nominated subsidiary and (ii) a license agreement with Monsanto Company or one of its affiliates with respect to certain discontinued seed inventory SKUs and related breeding materials, provided such license agreement has been negotiated on an arm's length basis and with license terms that shall not materially and adversely interfere with the Loan Parties' business, operations or value, or the value of the Intellectual Property Collateral.

B. Each Loan Party hereby represents and warrants to Lender that other than exclusive or non-exclusive licensing of the Intellectual Property Collateral permitted in Section 3.A. above, such Loan Party has not granted any license or security interest to any Person other than Lender in connection with any of the Intellectual Property Collateral. Except as permitted in Section 3.A., each Loan Party hereby covenants unto Lender that until the Obligations shall have been indefeasibly paid and satisfied in full and the Loan Documents have been terminated, such Loan Party shall not grant any license or security interest to any third party in connection with the Intellectual Property Collateral without Lender's prior written consent.

4. **New Trademarks, Patents, and Copyrights.** Each Loan Party represents and warrants that the Trademarks, Patents, Copyrights and Licenses listed on Schedules "A", "B", and "C" respectively constitute all of the registered trademarks, trademark registrations, registered patents, patent registrations, registered copyrights, and applications therefor now owned by such Loan Party. If, prior to payment of the Obligations in full, such Loan Party shall (i) obtain rights to any new registered Intellectual Property, or (ii) become entitled to the benefit of any registered Intellectual Property, the provisions of Paragraph 2 above shall automatically apply thereto and such Loan Party shall provide Lender with prompt notice thereof, such prompt notice not to exceed three (3) Business Days after such Loan Party obtains such rights or becomes entitled thereto. Loan Parties hereby authorize Lender to modify this Agreement by amending Schedules "A", "B", and "C" to include any future registered Intellectual Property. Notwithstanding the foregoing, in addition to all other rights and interests granted to Lender under this Agreement, with respect to the Intellectual Property, each Loan Party hereby confirms and reaffirms its obligations under and the terms of (x) Section 8.3(d) of the Loan Agreement, (y) Section 3.E of each Guaranty, and (z) provisions of the Reaffirmation of Guaranties executed and delivered by the Loan Parties (other than Borrower) in favor of Lender.

5. **Royalties; Terms.** Each Loan Party hereby agrees that the use by Lender of all Intellectual Property Collateral after an Event of Default as described above shall be without any liability for royalties or other related charges from Lender to Loan Parties. The term of the assignments granted herein shall extend until the earlier of (i) the expiration of each of the respective Trademarks, Patents, Copyrights and Licenses assigned hereunder, or (ii) the payment to Lender of the Obligations in full and the termination of the Loan Documents.

6. **Lender's Right to Inspect.** Lender shall have the right to inspect Loan Parties' premises and to examine Loan Parties' books, records and operations, including, without limitation, Loan Parties' quality control processes during regular business hours after reasonable notice to such Loan Party has been delivered by Lender. Upon the occurrence and during the continuation of an Event of Default, Loan Parties agree that Lender shall have the right to establish such additional product quality controls as Lender, in its sole discretion, may deem necessary to assure maintenance of the quality of products sold by Loan Parties under the Trademarks, Patents, Copyrights or Licenses. Each Loan Party agrees (i) not to sell or assign its interest in, or grant any licenses under, the Trademarks, Patents, Copyrights or Licenses;

(ii) to maintain the quality of any and all products produced in connection with the Intellectual Property Collateral consistent with the quality of said products as of the date hereof; and (iii) not to adversely change or alter the quality of said products without Lender's prior written consent except where such changes or alterations are deemed warranted by such Loan Party in its commercially reasonable business discretion or as otherwise permitted by the terms of the Loan Documents. Notwithstanding the foregoing provisions of this Section 6 and provided no Event of Default then exists, Loan Parties may license or sublicense on an exclusive or non-exclusive basis to (i) unaffiliated third parties any Intellectual Property Collateral in the ordinary course of business on an arm's length basis or (ii) to another Loan Party that is a party to this Agreement any Intellectual Property Collateral, in each case, to the extent such license or sublicense shall not materially and adversely interfere with the Loan Parties' business, operations or value, or the value of the Intellectual Property Collateral.

7. **Nature and Termination of Lender's Security Interest.** This Agreement is made for collateral purposes only. Except as otherwise provided in Paragraphs 3, 6 and 13 hereof, nothing contained herein shall be deemed to limit in any way Loan Parties' right to use the Trademarks, Patents, Copyrights or Licenses or to grant to Lender any right to use the Trademarks, Patents, Copyrights or Licenses prior to an Event of Default. The assignment, security interest, liens, licenses and any other rights granted hereby shall be automatically terminated and released without further action by any party upon payment in full in cash of the Obligations and the termination of all commitments by Lender or its Affiliates to the Loan Parties.

8. **Duties of Loan Parties.** Loan Parties shall have the duty (i) to prosecute diligently, using commercially reasonable standards any trademark, patent and copyright registration pending as of the date hereof or at any time hereafter, until the Obligations shall have been paid in full, (ii) to make applications for trademarks, patents and copyrights, as appropriate and consistent with past business practices, and (iii) to use commercially reasonable efforts to preserve and maintain all applications and registrations for Intellectual Property Collateral except, (i) with the consent of the Lender, such consent not to be unreasonably withheld, (a) in the event that such Loan Party has reasonably determined that any of the foregoing is not material to the business of the Loan Parties and is of *de minimus* economic value; and (b) in the event that a Loan Party determines in its reasonable business judgment that it is reasonable to abandon any of the foregoing; and (ii) with respect to the Intellectual Property identified on Schedule "E" attached hereto, which Intellectual Property the Loan Parties intend to abandon because Loan Parties have determined such Intellectual Property has *de minimus* economic value. Any expenses incurred in connection with such applications shall be borne by Loan Parties.

9. **Lender's Right to Sue.** Upon the occurrence and during the continuation of an Event of Default, Lender shall have the right, but shall in no way be obligated, to bring suit in its own name or in the name of a Loan Party to enforce the Trademarks, Patents, Copyrights and Licenses. If Lender shall commence any such suit, Loan Parties shall, at the request of Lender, do any and all acts and execute any and all instruments, documents and agreements required by Lender to enforce such Intellectual Property Collateral, and Loan Parties shall promptly, upon demand, reimburse and indemnify Lender for all costs and expenses incurred by Lender in the exercise of its rights and remedies under this Paragraph 9.

10. **Waivers.** Lender's failure at any time or times hereafter to require strict performance by Loan Parties of any provision of this Agreement shall not waive, affect or diminish any right of Lender thereafter to demand strict compliance and performance therewith. Any suspension or waiver by Lender of an Event of Default shall not suspend, waive or affect any other Event of Default, whether same is prior or subsequent thereto and whether of the same or a different type. None of the undertakings, agreements, warranties, covenants and representations of Loan Parties contained in this Agreement and no

Event of Default by Loan Parties shall be deemed to have been suspended or waived by Lender unless such suspension or waiver is in writing signed by officers of Lender and directed to Loan Parties specifying such suspension or waiver.

11. **Severability.** The provisions of this Agreement are severable, and if any clause or provision shall be held invalid and unenforceable in whole or in part in any jurisdiction, then such invalidity or unenforceability shall affect only such clause or provision, or part thereof, in such jurisdiction, and shall not in any manner affect such clause or provision in any other jurisdiction, or any other clause or provision of this Agreement in any jurisdiction.

12. **Modification.** This Agreement cannot be altered, amended or modified in any way, except as specifically provided in Paragraph 4 hereof or by a writing signed by the parties hereto.

13. **Cumulative Remedies; Power of Attorney; Effect on Loan Agreement.** All of Lender's rights and remedies with respect to the Intellectual Property Collateral, whether established hereby, by the Loan Documents, by any other agreements or by law shall be cumulative and may be exercised singularly or concurrently. Each Loan Party hereby authorizes Lender to make, constitute and appoint any officer or agent of Lender as such Loan Party's true and lawful attorney-in-fact, with power, upon the occurrence and during the continuation of an Event of Default and commencement by Lender of any of its rights and remedies whatsoever, whether pursuant to this Agreement, the Loan Documents, at law, in equity or otherwise, to (a) endorse such Loan Party's name on all applications, documents, papers and instruments necessary or desirable for Lender in connection with selling the Intellectual Property Collateral, (b) take any other actions with respect to the Intellectual Property Collateral as Lender decides in its sole and absolute discretion, (c) assign, pledge, sell, convey or otherwise transfer title in or dispose of the Intellectual Property Collateral to any person or entity as Lender may determine in its discretion, and (d) grant or issue any non-exclusive license under the Intellectual Property Collateral, to any person or entity. Each Loan Party agrees to indemnify Lender for any infringement claims or other similar claims filed or asserted against Lender from the use of any of the Intellectual Property Collateral. Loan Parties hereby ratify all actions that attorney shall lawfully do or cause to be done by virtue hereof. This power of attorney shall be irrevocable until the Obligations shall have been paid in full and all financing arrangements between Loan Parties or any Loan Party and Lender have been terminated. Loan Parties acknowledge and agree that this Agreement is not intended to limit or restrict in any way the rights and remedies of Lender under the Loan Documents, at law or in equity, but rather is in addition to and intended to facilitate the exercise of such rights and remedies.

14. **Binding Effect; Benefits.** This Agreement shall be binding upon Loan Parties and their respective successors and assigns, and shall inure to the benefit of Lender, its nominees, successors and assigns.

15. **Notice.** Any and all notices, exercises, demands, requests, consents, designations, waivers and other communications required or desired hereunder shall be delivered to the parties hereto at their addresses set forth in the Loan Documents and shall be effective as set forth in the Loan Documents.

16. **Governing Law.** This Agreement shall be deemed to have been executed and delivered in Chicago, Illinois, and shall be governed by and construed in accordance with the internal laws (as opposed to conflicts of law provisions) of the State of Illinois.

17. **Joint and Several.** All references to "Loan Parties" and "Loan Party" shall mean Borrower, Chromatin, Germplasm, Holdings, Marathon and Chromatin Farms, both individually and

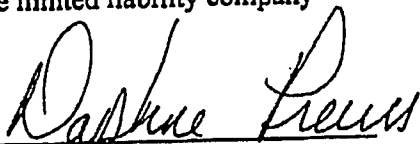


collectively, and jointly and severally, and all representations, warranties, duties, covenants, agreements and obligations of Loan Parties shall be the individual and collective representations, warranties, duties, covenants, agreements and obligations of each of Borrower, Chromatin, Germplasm, Holdings, Marathon and Chromatin Farms.

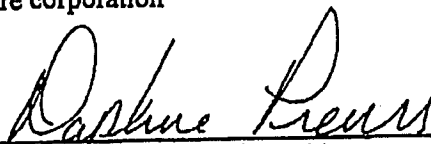
[signature page follows]

IN WITNESS WHEREOF, each Loan Party's duly authorized officer has executed this Agreement as of the date first set forth above.

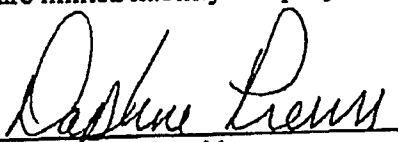
**GLOBAL SORGHUM SOLUTIONS, LLC,**  
a Delaware limited liability company

By:   
Daphne Preuss, President

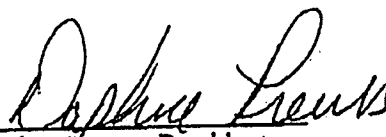
**CHROMATIN, INC.,**  
a Delaware corporation

By:   
Daphne Preuss, CEO and President

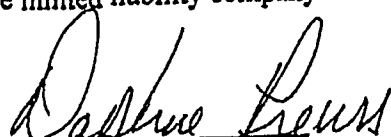
**CHROMATIN GERMPASM, LLC,**  
a Delaware limited liability company

By:   
Daphne Preuss, President

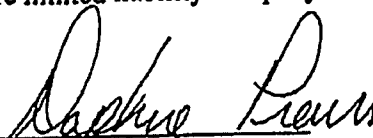
**CHROMATIN HOLDING, LLC,**  
a Delaware limited liability company

By:   
Daphne Preuss, President

**MARATHON AG SERVICES, LLC,**  
a Delaware limited liability company

By:   
Daphne Preuss, President

**CHROMATIN FARMS, LLC,**  
a Delaware limited liability company

By:   
Daphne Preuss, President

**ACCEPTANCE**

The undersigned accepts the foregoing collateral assignment of Intellectual Property.

**CIBC BANK USA,**  
formerly known as The PrivateBank and Trust Company

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

*[Signature Page to Intellectual Property Security Agreement]*

IN WITNESS WHEREOF, each Loan Party's duly authorized officer has executed this Agreement as of the date first set forth above.

GLOBAL SORGHUM SOLUTIONS, LLC,  
a Delaware limited liability company

CHROMATIN, INC.,  
a Delaware corporation

By: \_\_\_\_\_  
Daphne Preuss, President

By: \_\_\_\_\_  
Daphne Preuss, CEO and President

CHROMATIN GERMPLOASM, LLC,  
a Delaware limited liability company

CHROMATIN HOLDING, LLC,  
a Delaware limited liability company

By: \_\_\_\_\_  
Daphne Preuss, President

By: \_\_\_\_\_  
Daphne Preuss, President

MARATHON AG SERVICES, LLC,  
a Delaware limited liability company

CHROMATIN FARMS, LLC,  
a Delaware limited liability company

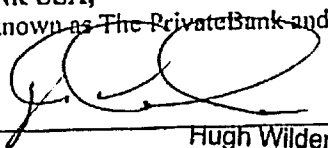
By: \_\_\_\_\_  
Daphne Preuss, President

By: \_\_\_\_\_  
Daphne Preuss, President

**ACCEPTANCE**

The undersigned accepts the foregoing collateral assignment of Intellectual Property.

CIBC BANK USA,  
formerly known as The Private Bank and Trust Company

By:   
Name: \_\_\_\_\_ Hugh Wilder  
Title: \_\_\_\_\_ Managing Director

*[Signature Page to Intellectual Property Security Agreement]*

**SCHEDULE A**

**TRADEMARKS AND TRADEMARK REGISTRATIONS**

| <b>Owner</b>    | <b>Trademark Name</b>                 | <b>Country</b> | <b>Status</b> | <b>Application No.</b> | <b>Filing Date</b> | <b>Registration No.</b> | <b>Registration Date</b> |
|-----------------|---------------------------------------|----------------|---------------|------------------------|--------------------|-------------------------|--------------------------|
| Chromatin, Inc. | BMR Production Plus & Design          | USA            | Registered    |                        |                    | 4,912,235               | 3/8/2016                 |
| Chromatin, Inc. | Chromatin                             | Algeria        | Registered    | T/2016/003242          | 7/27/2016          | 98369                   | 7/9/2017                 |
| Chromatin, Inc. | Chromatin                             | Australia      | Registered    |                        |                    | 1771663                 | 1/19/2017                |
| Chromatin, Inc. | Chromatin                             | Bolivia        | Pending       | SM-002064-2017         | 5/5/2017           |                         |                          |
| Chromatin, Inc. | Chromatin                             | Bolivia        | Pending       | SM-002066-2017         | 5/5/2017           |                         |                          |
| Chromatin, Inc. | Chromatin                             | Brazil         | Published     | 912675330              | 5/23/2017          |                         |                          |
| Chromatin, Inc. | Chromatin                             | Brazil         | Published     | 912675357              | 5/23/2017          |                         |                          |
| Chromatin, Inc. | Chromatin                             | Kenya          | Registered    | 93631                  | 8/15/2016          | 93631                   | 8/15/2016                |
| Chromatin, Inc. | Chromatin                             | Mexico         | Registered    |                        |                    | 1693889                 | 11/11/2016               |
| Chromatin, Inc. | Chromatin                             | Uganda         | Pending       | T/2016/056068          | 6/13/2016          |                         |                          |
| Chromatin, Inc. | Chromatin                             | Uganda         | Pending       | T/2016/056069          | 6/13/2016          |                         |                          |
| Chromatin, Inc. | Chromatin                             | Uganda         | Pending       | T/2016/056070          | 6/13/2016          |                         |                          |
| Chromatin, Inc. | Chromatin & Chinese Characters Design | China          | Published     | 19127668               | 2/22/2016          | 19127668                | 3/28/2017                |
| Chromatin, Inc. | Chromatin & Chinese Characters Design | China          | Published     | 19127670               | 2/22/2016          |                         |                          |
| Chromatin, Inc. | Chromatin & Chinese Characters Design | China          | Published     | 19127671               | 2/22/2016          | 19127671                | 3/28/2017                |
| Chromatin, Inc. | Chromatin & Chinese Characters Design | China          | Registered    | 19127672               | 2/22/2026          | 19127672                | 3/28/2017                |
| Chromatin, Inc. | Chromatin & Chinese Characters Design | China          | Published     | 19127673               | 2/22/2026          |                         |                          |
| Chromatin, Inc. | Chromatin & Design                    | Argentina      | Published     | 3.598.225              | 7/12/2017          |                         |                          |
| Chromatin, Inc. | Chromatin & Design                    | Argentina      | Published     | 3.598.226              | 7/12/2017          |                         |                          |
| Chromatin, Inc. | Chromatin & Design                    | Australia      | Registered    |                        |                    | 1771666                 | 1/19/2017                |
| Chromatin, Inc. | Chromatin & Design                    | Bolivia        | Pending       | SM-002065-2017         | 5/5/2017           |                         |                          |

|                 |                          |               |            |                |           |            |           |
|-----------------|--------------------------|---------------|------------|----------------|-----------|------------|-----------|
| Chromatin, Inc. | Chromatin & Design       | Bolivia       | Pending    | SM-002067-2017 | 5/5/2017  |            |           |
| Chromatin, Inc. | Chromatin & Design       | Brazil        | Published  | 912675250      | 5/23/2017 |            |           |
| Chromatin, Inc. | Chromatin & Design       | Brazil        | Published  | 912675314      | 5/23/2017 |            |           |
| Chromatin, Inc. | Chromatin & Design       | China         | Registered | 19111822       | 2/18/2016 | 19111822   | 3/21/2017 |
| Chromatin, Inc. | Chromatin & Design       | China         | Registered | 19111823       | 2/18/2016 | 19111823   | 3/21/2017 |
| Chromatin, Inc. | Chromatin & Design       | China         | Registered | 19111824       | 2/18/2016 | 19111824   | 3/21/2017 |
| Chromatin, Inc. | Chromatin & Design       | China         | Registered | 19111825       | 2/18/2016 | 19111825   | 3/21/2017 |
| Chromatin, Inc. | Chromatin & Design       | China         | Published  | 19127669       | 2/22/2016 |            |           |
| Chromatin, Inc. | Chromatin & Design       | Paraguay      | Pending    | 1727634        | 5/8/2017  |            |           |
| Chromatin, Inc. | Chromatin & Design       | Paraguay      | Pending    | 1727637        | 5/8/2017  |            |           |
| Chromatin, Inc. | Chromatin & Design       | Rep. of Korea | Registered |                |           | 40-1254244 | 5/19/2017 |
| Chromatin, Inc. | Chromatin & Design       | Uruguay       | Published  | 483.519        | 6/30/2017 |            |           |
| Chromatin, Inc. | Chromatin Rain Drop Logo | Argentina     | Published  | 3.598.223      | 7/12/2017 |            |           |
| Chromatin, Inc. | Chromatin Rain Drop Logo | Argentina     | Published  | 3.598.224      | 7/12/2017 |            |           |
| Chromatin, Inc. | Chromatin Rain Drop Logo | Paraguay      | Pending    | 1727630        | 5/8/2017  |            |           |
| Chromatin, Inc. | Chromatin Rain Drop Logo | Paraguay      | Pending    | 1727632        | 5/8/2017  |            |           |
| Chromatin, Inc. | Chromatin Rain Drop Logo | Uganda        | Pending    | T/2016/056482  | 8/5/2016  |            |           |
| Chromatin, Inc. | Chromatin Rain Drop Logo | Uganda        | Pending    | T/2016/056483  | 8/5/2016  |            |           |
| Chromatin, Inc. | Chromatin Rain Drop Logo | Uganda        | Pending    | T/2016/056484  | 8/5/2016  |            |           |
| Chromatin, Inc. | Chromatin Rain Drop Logo | Uruguay       | Published  | 483.521        | 6/30/2017 |            |           |
| Chromatin, Inc. | Chromatin Rain Drop Logo | USA           | Registered |                |           | 4,618,263  | 10/7/2014 |
| Chromatin, Inc. | Customized by            | USA           | Registered |                |           | 4,610,368  | 9/23/2014 |

|                 |   |               |            |                 |           |            |            |
|-----------------|---|---------------|------------|-----------------|-----------|------------|------------|
|                 | Chromatin Renewable by Nature               |               |            |                 |           |            |            |
| Chromatin, Inc. | Customized by Chromatin Renewable by Nature | USA           | Registered |                 |           | 4,610,369  | 9/23/2014  |
| Chromatin, Inc. | Don't Settle for Less                       | Mexico        | Registered |                 |           | 84463      | 11/14/2014 |
| Chromatin, Inc. | Don't Settle for Less                       | USA           | Registered |                 |           | 4,706,608  | 3/24/2015  |
| Chromatin, Inc. | Grain Design                                | USA           | Registered |                 |           | 3,837,689  | 8/24/2010  |
| Chromatin, Inc. | Majestic Semillas                           | Mexico        | Registered |                 |           | 1503750    | 12/15/2014 |
| Chromatin, Inc. | Majestic Semillas                           | Mexico        | Registered |                 |           | 1503753    | 12/15/2014 |
| Chromatin, Inc. | Majestic Semillas                           | Mexico        | Registered |                 |           | 1503754    | 12/15/2014 |
| Chromatin, Inc. | Majestic Sorghum                            | Mexico        | Registered |                 |           | 1503752    | 12/15/2014 |
| Chromatin, Inc. | Majestic Sorghum                            | Mexico        | Registered |                 |           | 1503748    | 12/15/2014 |
| Chromatin, Inc. | No Se Conforme Con Menos                    | Mexico        | Registered |                 |           | 84464      | 11/14/2014 |
| Chromatin, Inc. | Nutri+Plus BMR                              | USA           | Registered |                 |           | 4,917,080  | 3/15/2016  |
| Chromatin, Inc. | Nutri+Plus BMR & Design                     | USA           | Registered |                 |           | 4,917,079  | 3/15/2016  |
| Chromatin, Inc. | Powered by Chromatin                        | Algeria       | Abandoned  | 3727            | 8/1/2017  |            |            |
| Chromatin, Inc. | Powered by Chromatin                        | Kenya         | Abandoned  | 93630           | 8/1/2017  |            |            |
| Chromatin, Inc. | Powered by Chromatin                        | Mexico        | Abandoned  | 1693890         | 8/1/2017  |            |            |
| Chromatin, Inc. | Powered by Chromatin                        | Rep. of Korea | Abandoned  | 40-2016-0066112 | 8/1/2017  |            |            |
| Chromatin, Inc. | Powered by Chromatin                        | USA           | Abandoned  | 87/093,295      | 8/28/2017 |            |            |
| Chromatin, Inc. | Production Plus                             | Pakistan      | Pending    | 426981          | 7/15/2016 |            |            |
| Chromatin, Inc. | Production Plus                             | Rep. of Korea | Registered |                 |           | 40-1240967 | 3/20/2017  |
| Chromatin, Inc. | Production Plus                             | USA           | Registered |                 |           | 4,907,319  | 3/1/2016   |
| Chromatin, Inc. | Production Plus Design                      | USA           | Registered |                 |           | 4,821,416  | 9/29/2015  |
| Chromatin, Inc. | Restore                                     | Uganda        | Pending    | T/2016/056071   | 6/13/2016 |            |            |
| Chromatin, Inc. | Restore                                     | Uganda        | Pending    | T/2016/056072   | 6/13/2016 |            |            |
| Chromatin, Inc. | Restore                                     | USA           | Registered |                 |           | 4,973,464  | 6/7/2016   |

|                 |                                 |               |            |                |            |            |            |
|-----------------|---------------------------------|---------------|------------|----------------|------------|------------|------------|
| Chromatin, Inc. | Restore Logo                    | USA           | Registered |                |            | 4,978,344  | 6/14/2016  |
| Chromatin, Inc. | Sorghum Partners                | Algeria       | Registered | 154735         | 10/14/2015 | 96363      | 2/13/2017  |
| Chromatin, Inc. | Sorghum Partners                | Australia     | Registered |                |            | 1771667    | 2/10/2017  |
| Chromatin, Inc. | Sorghum Partners                | Bolivia       | Pending    | SM-002068-2017 | 5/5/2017   |            |            |
| Chromatin, Inc. | Sorghum Partners                | Mexico        | Pending    | 1569109        | 1/20/2015  |            |            |
| Chromatin, Inc. | Sorghum Partners                | Pakistan      | Pending    | 398750         | 10/5/2015  |            |            |
| Chromatin, Inc. | Sorghum Partners                | Rep. of Korea | Registered |                |            | 40-1179741 | 5/20/2016  |
| Chromatin, Inc. | Sorghum Partners                | Uganda        | Pending    | T/2016/055099  | 3/10/2016  |            |            |
| Chromatin, Inc. | Sorghum Partners                | USA           | Registered |                |            | 2,653,396  | 11/26/2002 |
| Chromatin, Inc. | Sorghum Partners                | USA - Texas   | Registered |                |            | 6027017    | 4/18/2001  |
| Chromatin, Inc. | Sorghum Partners & Grain Design | Algeria       | Pending    | 154736         | 10/14/2015 |            |            |
| Chromatin, Inc. | Sorghum Partners & Grain Design | Argentina     | Published  | 3.598.227      | 7/12/2017  |            |            |
| Chromatin, Inc. | Sorghum Partners & Grain Design | Australia     | Registered |                |            | 1771670    | 2/10/2017  |
| Chromatin, Inc. | Sorghum Partners & Grain Design | Brazil        | Published  | 912674989      | 5/23/2017  |            |            |
| Chromatin, Inc. | Sorghum Partners & Grain Design | Pakistan      | Pending    | 398751         | 10/5/2015  |            |            |
| Chromatin, Inc. | Sorghum Partners & Grain Design | Paraguay      | Pending    | 1727628        | 5/8/2017   |            |            |
| Chromatin, Inc. | Sorghum Partners & Grain Design | Rep. of Korea | Registered |                |            | 40-1182328 | 6/2/2016   |
| Chromatin, Inc. | Sorghum Partners & Grain Design | Uganda        | Pending    | T/2016/055100  | 3/10/2016  |            |            |
| Chromatin, Inc. | Sorghum                         | Uruguay       | Published  | 483.522        | 6/30/2017  |            |            |

|                     |                                 |           |            |  |  |           |            |
|---------------------|---------------------------------|-----------|------------|--|--|-----------|------------|
|                     | Partners & Grain Design         |           |            |  |  |           |            |
| Chromatin, Inc.     | Sorghum Partners & Grain Design | USA       | Registered |  |  | 3,082,785 | 4/18/2006  |
| Chromatin, Inc.     | Texas Hybrid                    | Mexico    | Registered |  |  | 1503749   | 12/15/2014 |
| Chromatin, Inc.     | Texas Hybrid Design             | Mexico    | Registered |  |  | 1503751   | 12/15/2014 |
| Chromatin Argentina | N Super Sorgos                  | Argentina | Registered |  |  | 2884971   | 12/29/2008 |
| Chromatin do Brasil | Novos Sorgos                    | Brasil    | Registered |  |  | 829840087 | 8/24/2010  |
| Chromatin Argentina | N Nuevos Sorgos                 | Bolivia   | Registered |  |  | 125230    | 2007       |
| Chromatin Argentina | N Nuevos Sorgos                 | Bolivia   | Registered |  |  | 125231    | 2007       |
| Chromatin Argentina | N Nuevos Sorgos                 | Bolivia   | Registered |  |  | 125030    | 2007       |



**SCHEDULE B**

**PATENTS AND PATENT REGISTRATIONS**

| <b>Owner</b>    | <b>Patent Name</b>  | <b>Country</b> | <b>Status</b> | <b>Application No.</b> | <b>Filing Date</b> | <b>Registration No.</b> | <b>Registration Date</b> |
|-----------------|---|----------------|---------------|------------------------|--------------------|-------------------------|--------------------------|
| Chromatin, Inc. | Acetyl-CoA Carboxylase Herbicide Resistant Sorghum Created From Tissue Culture and Chemical Mutagenesis | USA            | Pending       | 62/513,074             | 5/31/2017          |                         |                          |

**SCHEDULE C**

**COPYRIGHTS AND COPYRIGHT APPLICATIONS**

None.

**SCHEDULE D**

**MATERIAL UNREGISTERED INTELLECTUAL PROPERTY**

| <b>OWNER</b>                      | <b>COUNTRY</b> | <b>UNREGISTERED INTELLECTUAL PROPERTY</b>  |
|-----------------------------------|----------------|--|
|                                   |                | <ul style="list-style-type: none"> <li>- Hybrids, commercial and pre-commercial, with accompanying commercial rights to sell and all related seed registrations</li> <li>- Germplasm collection (parent lines)*: 12,219 owned lines and 10,830 in-licensed lines</li> <li>- Trade secrets (know-how, inventions not registered, records, etc.). Trade Secrets include but are not limited to:               <ol style="list-style-type: none"> <li>1. Methods of Sorghum Transformation with Exogenous DNA and Regeneration of Modified Plants</li> <li>2. Protoplast isolation from sorghum</li> <li>3. Trait-associated and functional markers were developed for MAS breeding program (See Table 2).</li> <li>4. Whole-genome finger printing panel (288 SNP markers and 96 SSR markers) for capturing the genetic diversity of Chromatin's elite germplasm.</li> <li>5. Core germplasm collections of diverse and exotic resources for trait/marker development: Anthracnose (73 lines), SCA (52 lines), Drought (163 lines), Cold tolerance (46lines), and Salt tolerance (47 lines).</li> <li>6. Double haploid methodology, unique to industry approaches to date.</li> <li>7. Seed treatment innovations</li> </ol> </li> <li>- In-Licenses for treatments and technologies</li> </ul> |
| Chromatin, Inc.                   | US - DE        |  |
| Chromatin Germplasm LLC           | US - DE        | - Germplasm collection (parent lines)*: 12,000 owned lines   |
| Chromatin Holding, LLC            | US - DE        | - Logo trademark for joint venture with Sorghum Solutions Africa.  |
| Chromatin Semillas Argentina SA   | Argentina      | <ul style="list-style-type: none"> <li>- Hybrids, commercial, with accompanying commercial rights to sell and all related seed registrations</li> <li>- Germplasm collection (parent lines)*</li> <li>- License to Nidera trademarks for 2 years (through Dec 2018)</li> </ul>   |
| Chromatin do Brazil Agricola Ltda | Brazil         | <ul style="list-style-type: none"> <li>- Hybrids, commercial, with accompanying commercial rights to sell and all related seed registrations</li> <li>- Germplasm collection (parent lines)*</li> <li>- License to Nidera trademarks for 2 years (through Dec 2018)</li> </ul>   |

*\* From the parent lines above, new lines are created by breeding populations with each other and inbreeding the segregating lines. Consequently, the number of lines available to the Company today exceeds those initially acquired or in-licensed. Any new lines developed are owned by the entity owning the original parent.*

**SCHEDULE E****INTELLECTUAL PROPERTY TO BE ABANDONED****INTELLECTUAL PROPERTY TO BE ABANDONED**

## Trademarks and Trademark Applications

| Owner           | Trademark            | Country       | Status    | Application No. | Filing Date | Registration No. | Reg. Date |
|-----------------|----------------------|---------------|-----------|-----------------|-------------|------------------|-----------|
| Chromatin, Inc. | Powered by Chromatin | Algeria       | Abandoned | 3727            | 8/1/2017    |                  |           |
| Chromatin, Inc. | Powered by Chromatin | Kenya         | Abandoned | 93630           | 8/1/2017    |                  |           |
| Chromatin, Inc. | Powered by Chromatin | Mexico        | Abandoned | 1693890         | 8/1/2017    |                  |           |
| Chromatin, Inc. | Powered by Chromatin | Rep. of Korea | Abandoned | 40-2016-0066112 | 8/1/2017    |                  |           |
| Chromatin, Inc. | Powered by Chromatin | USA           | Abandoned | 87/093,295      | 8/28/2017   |                  |           |

## Patents and Patent Applications

| Country | App No.     | Filed      | Pub No.            | Patent No. | Status    | Expiration |
|---------|-------------|------------|--------------------|------------|-----------|------------|
| US      | 09/531120   | 3/17/2000  | --                 | 6972197    | Issued    | 12/6/2025  |
| US      | 10/170,944  | 6/12/2002  | US-2003-0131372-A1 | 7193128    | Issued    | 3/24/2021  |
| AU      | 2003276839  | 6/27/2003  | --                 | 2003276839 | Issued    | 6/27/2023  |
| BR      | PI0318377-7 | 6/27/2003  | --                 | --         | Published | --         |
| US      | 11/031554   | 1/7/2005   | --                 | 7456013    | Issued    | 11/25/2018 |
| US      | 11/049584   | 2/2/2005   | --                 | 7235716    | Issued    | 6/26/2017  |
| US      | 11/049537   | 2/2/2005   | --                 | 7227057    | Issued    | 6/5/2017   |
| US      | 11/049179   | 2/2/2005   | --                 | 7226782    | Issued    | 6/5/2017   |
| AU      | 2005217648  | 2/23/2005  | --                 | 2005217648 | Issued    | 2/23/2025  |
| BR      | PI0507934-9 | 2/23/2005  | --                 | --         | Published | --         |
| CA      | 2557644     | 2/23/2005  | --                 | 2557644    | Issued    | 2/23/2025  |
| MX      | 2006/009225 | 2/23/2005  | --                 | 293082     | Issued    | 2/23/2025  |
| ZA      | 2006/07333  | 2/23/2005  | --                 | 2006/07333 | Issued    | 2/23/2025  |
| US      | 11/331942   | 1/13/2006  | --                 | 7847151    | Issued    | 12/7/2020  |
| US      | 11/701,900  | 2/2/2007   | US-2008-0288264-A1 | 8759086    | Issued    | 5/27/2024  |
| US      | 10/590,546  | 7/13/2007  | US-2008-0060093-A1 | 8729341    | Issued    | 4/6/2021   |
| US      | 11/981451   | 10/31/2007 | --                 | 7989202    | Issued    | 8/2/2021   |
| US      | 11/981,296  | 10/31/2007 | --                 | 8062885    | Issued    | 11/22/2021 |
| US      | 12/700,276  | 2/4/2010   | US-2010-0205686-A1 | 8373025    | Issued    | 11/9/2030  |
| US      | 12/718,794  | 3/5/2010   | US-2010-0235948-   | 8350120    | Issued    | 3/31/2025  |

|    |                 |            |                        |            |           |            |
|----|-----------------|------------|------------------------|------------|-----------|------------|
|    |                 |            | A1                     |            |           |            |
| AU | 2010275448      | 7/23/2010  | --                     | 2010275448 | Issued    | 7/23/2030  |
| CA | 2767724         | 7/23/2010  | --                     | --         | Pending   | --         |
| EP | 10802957        | 7/23/2010  | 2456894                | --         | Published | --         |
| AU | 2010275440      | 7/23/2010  | --                     | --         | Allowed   | --         |
| BR | R112012001264-9 | 7/23/2010  | --                     | --         | Pending   | --         |
| MX | A/2012/000972   | 7/23/2010  | --                     | 331952     | Issued    | 7/23/2030  |
| ZA | 2012/00375      | 7/23/2010  | --                     | 2012/00375 | Issued    | 7/23/2030  |
| AU | 2012209432      | 1/13/2012  | --                     | --         | Pending   | --         |
| BR | R112013019255-0 | 1/13/2012  | --                     | --         | Pending   | --         |
| IN | 7019/DELNP/2013 | 1/13/2012  | 7019/DELNP/2013<br>A   | --         | Published | --         |
| ZA | 2013/06197      | 1/13/2012  | --                     | 2013/06197 | Issued    | 1/13/2032  |
| US | 13/386,366      | 1/20/2012  | US-2012-0117868-<br>A1 | 8981183    | Issued    | 7/18/2031  |
| AR | P120100246      | 1/25/2012  | AR 085033 A1           | --         | Published | --         |
| US | 13/383,699      | 5/7/2012   | US-2012-0255072-<br>A1 | 9096909    | Issued    | 12/30/2031 |
| US | 13/981,841      | 10/29/2013 | US-2014-0047583-<br>A1 | --         | Published | --         |
| AU | 2013347891      | 11/21/2013 | --                     | --         | Pending   | --         |
| AU | 2014223541      | 2/26/2014  | --                     | --         | Pending   | --         |
| US | 14/611,168      | 1/30/2015  | --                     | --         | Pending   | --         |
| US | 14/660,110      | 3/17/2015  | US-2016-0010098-<br>A1 | --         | Published | --         |
| US | 14/816,904      | 8/3/2015   | US-2016-0115495-<br>A1 | --         | Published | --         |