

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3965796

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NAGARAJAN RAMALINGAM	09/19/2013
DAVID CHARLES ROSS	12/13/2013
MATTHEW ROBERT COTTLE	09/19/2013
ERIC STEPHEN OSHIGE	09/19/2013
GABRIEL IAN OXBY	09/23/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SYNGENTA PARTICIPATIONS AG
<b>Street Address:</b>	SCHWARZWALDALLEE 215
<b>City:</b>	BASEL
<b>State/Country:</b>	SWITZERLAND
<b>Postal Code:</b>	CH-4058
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14898556
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(919)226-7458
<i>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.</i>	
<b>Phone:</b>	336.632-2238
<b>Email:</b>	global.patents@syngenta.com
<b>Correspondent Name:</b>	R. KODY JONES
<b>Address Line 1:</b>	410 SWING ROAD
<b>Address Line 4:</b>	GREENSBORO, NORTH CAROLINA 27409
<b>ATTORNEY DOCKET NUMBER:</b>	80268-US-REG-ORG-P-1
<b>NAME OF SUBMITTER:</b>	LYNN STENDLER
<b>SIGNATURE:</b>	/Lynn Stendler/
<b>DATE SIGNED:</b>	07/18/2016
<b>Total Attachments: 48</b>	
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ASSIGNMENT – WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged,

**RAMALINGAM, Nagarajan, Syngenta Crop Protection, LLC, 410 Swing Road,  
Greensboro, NC, 27409, United States**

**ROSS, David Charles, Syngenta Crop Protection, LLC, 410 Swing Road,  
Greensboro, NC, 27409, United States**

**COTTLE, Matthew Robert, Syngenta Crop Protection, LLC, 410 Swing Road,  
Greensboro, NC, 27409, United States**

**OSHIGE, Eric Stephen, Syngenta Crop Protection, LLC, 410 Swing Road,  
Greensboro, NC, 27409, United States**

**OXBY, Gabriel Ian, Syngenta Crop Protection, LLC, 410 Swing Road, Greensboro,  
NC, 27409, United States**

has sold and assigned, and by these presents hereby sells and assigns, unto

**Syngenta Participations AG  
Schwarzwaldallee 215  
CH-4058 Basel  
SWITZERLAND**

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to

all inventions and discoveries described in Syngenta Patent Family **80268** including those described in **COMPOSITIONS FOR POST-HARVEST TREATMENT AND RELATED METHODS**, filed in

**Country / Application Number / Filing Date**

**U.S. Patent Application No. 61/836583 filed 18 June 2013**

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, non-provisionals, continuations, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority

right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries or any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will to all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

This Assignment is deemed to be effective at least as early as 18 June 2013.

Inventor Signature N. Ramalingam  
Nagarajan RAMALINGAM

State of: North Carolina

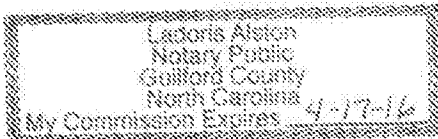
County of: Guilford

I, Ladonis Alston, a Notary Public for said County and State,  
do hereby certify that, Nagarajan RAMALINGAM, personally appeared before me this  
day, and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this 19<sup>th</sup> day of September 2013.

(Official Seal)

Ladonis Alston  
Notary Public



Inventor Signature \_\_\_\_\_  
David Charles ROSS

State of: \_\_\_\_\_

County of: \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State,  
do hereby certify that, David Charles ROSS, personally appeared before me this day, and  
acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

(Official Seal)

\_\_\_\_\_  
Notary Public

Inventor Signature \_\_\_\_\_  
Matthew Robert COTTLE

State of: \_\_\_\_\_

County of: \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State,  
do hereby certify that, Matthew Robert COTTLE, personally appeared before me this day,  
and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

(Official Seal)

\_\_\_\_\_  
Notary Public

Inventor Signature \_\_\_\_\_  
Eric Stephen OSHIGE

State of: \_\_\_\_\_

County of: \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State,  
do hereby certify that, Eric Stephen OSHIGE, personally appeared before me this day,  
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Witness my hand and official seal this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_.

(Official Seal)

\_\_\_\_\_  
Notary Public



Inventor Signature \_\_\_\_\_  
Gabriel Ian OXBY

State of: \_\_\_\_\_

County of: \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State,  
do hereby certify that, Gabriel Ian OXBY, personally appeared before me this day, and  
acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

(Official Seal)

\_\_\_\_\_  
Notary Public

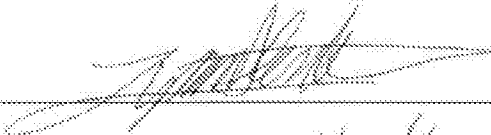
**SYNGENTA PARTICIPATIONS AG**

By: 

Printed Name: Kody Jones

Title: Patent Attorney

**SYNGENTA PARTICIPATIONS AG**

By: 

Printed Name: Lynn Stendler

Title: Para legal

ASSIGNMENT – WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged,

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**Syngenta Participations AG  
Schwarzwaldallee 215  
CH-4058 Basel  
SWITZERLAND**

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to

all inventions and discoveries described in Syngenta Patent Family **80268** including those described in **COMPOSITIONS FOR POST-HARVEST TREATMENT AND RELATED METHODS**, filed in

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right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries or any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will to all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

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This Assignment is deemed to be effective at least as early as 18 June 2013.

Inventor Signature \_\_\_\_\_  
Nagarajan RAMALINGAM

State of: \_\_\_\_\_

County of: \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State,  
do hereby certify that, Nagarajan RAMALINGAM, personally appeared before me this  
day, and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

(Official Seal)

\_\_\_\_\_  
Notary Public

Inventor Signature David Charles Ross  
David Charles ROSS

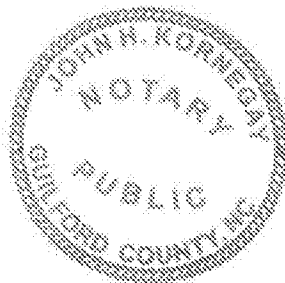
State of: NC  
County of: Guilford

I, John H. Kornegay, a Notary Public for said County and State,  
do hereby certify that, David Charles ROSS, personally appeared before me this day, and  
acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this 13<sup>th</sup> day of December, 2013.

(Official Seal)

John H. Kornegay  
Notary Public



Inventor Signature \_\_\_\_\_  
Matthew Robert COTTLE

State of: \_\_\_\_\_

County of: \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State,  
do hereby certify that, Matthew Robert COTTLE, personally appeared before me this day,  
and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

(Official Seal)

\_\_\_\_\_  
Notary Public

Inventor Signature \_\_\_\_\_  
Eric Stephen OSHIGE

State of: \_\_\_\_\_

County of: \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State,  
do hereby certify that, Eric Stephen OSHIGE, personally appeared before me this day,  
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(Official Seal)

\_\_\_\_\_  
Notary Public



Inventor Signature \_\_\_\_\_  
Gabriel Ian OXBY

State of: \_\_\_\_\_

County of: \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State,  
do hereby certify that, Gabriel Ian OXBY, personally appeared before me this day, and  
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(Official Seal)

\_\_\_\_\_  
Notary Public

**SYNGENTA PARTICIPATIONS AG**

By: 

Printed Name: Kody Jones

Title: Patent Attorney

**SYNGENTA PARTICIPATIONS AG**

By: 

Printed Name: Lynn Stender

Title: Paralegal

ASSIGNMENT – WORLDWIDE

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SWITZERLAND**

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**U.S. Patent Application No. 61/836583 filed 18 June 2013**

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Inventor Signature \_\_\_\_\_  
Nagarajan RAMALINGAM

State of: \_\_\_\_\_

County of: \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State,  
do hereby certify that, Nagarajan RAMALINGAM, personally appeared before me this  
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Witness my hand and official seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

(Official Seal)

\_\_\_\_\_  
Notary Public

Inventor Signature \_\_\_\_\_  
David Charles ROSS

State of: \_\_\_\_\_

County of: \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State,  
do hereby certify that, David Charles ROSS, personally appeared before me this day, and  
acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

(Official Seal)

\_\_\_\_\_  
Notary Public

Inventor Signature

Matthew Robert Cottle

Matthew Robert COTTLE

State of: North Carolina

County of: Guilford

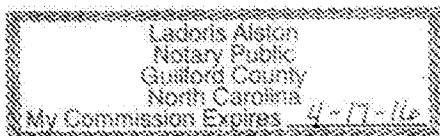
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Ladonis Alston

Notary Public



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Eric Stephen OSHIGE

State of: \_\_\_\_\_

County of: \_\_\_\_\_

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\_\_\_\_\_  
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Inventor Signature \_\_\_\_\_  
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State of: \_\_\_\_\_

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SYNGENTA PARTICIPATIONS AG

By: 

Printed Name: Kody Jones

Title: Patent Attorney

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By: 

Printed Name: Lynn Stendler

Title: Paralegal

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Nagarajan RAMALINGAM

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County of: \_\_\_\_\_

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Notary Public

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County of: \_\_\_\_\_

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\_\_\_\_\_  
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Inventor Signature: \_\_\_\_\_  
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State of: \_\_\_\_\_

County of: \_\_\_\_\_

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do hereby certify that, Matthew Robert COTTLE, personally appeared before me this day,  
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Witness my hand and official seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

(Official Seal)

\_\_\_\_\_  
Notary Public

Inventor Signature Eric Stephen Oshige  
Eric Stephen OSHIGE

State of: North Carolina

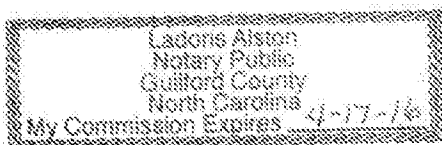
County of: Guilford

I, Ladonis Alston, a Notary Public for said County and State,  
do hereby certify that, Eric Stephen OSHIGE, personally appeared before me this day,  
and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this 19<sup>th</sup> day of September 2013.

(Official Seal)

Ladonis Alston  
Notary Public





Inventor Signature \_\_\_\_\_  
Gabriel Ian OXBY

State of: \_\_\_\_\_

County of: \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State,  
do hereby certify that, Gabriel Ian OXBY, personally appeared before me this day, and  
acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

(Official Seal)

\_\_\_\_\_  
Notary Public

SYNGENTA PARTICIPATIONS AG

By: 

Printed Name: Kody Jones

Title: Patent Attorney

SYNGENTA PARTICIPATIONS AG

By: 

Printed Name: Lynn Stender

Title: Pat a legal

ASSIGNMENT – WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged,

**RAMALINGAM, Nagarajan, Syngenta Crop Protection, LLC, 410 Swing Road,  
Greensboro, NC, 27409, United States**

**ROSS, David Charles, Syngenta Crop Protection, LLC, 410 Swing Road,  
Greensboro, NC, 27409, United States**

**COTTLE, Matthew Robert, Syngenta Crop Protection, LLC, 410 Swing Road,  
Greensboro, NC, 27409, United States**

**OSHIGE, Eric Stephen, Syngenta Crop Protection, LLC, 410 Swing Road,  
Greensboro, NC, 27409, United States**

**OXBY, Gabriel Ian, Syngenta Crop Protection, LLC, 410 Swing Road, Greensboro,  
NC, 27409, United States**

has sold and assigned, and by these presents hereby sells and assigns, unto

**Syngenta Participations AG  
Schwarzwaldallee 215  
CH-4058 Basel  
SWITZERLAND**

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to

all inventions and discoveries described in Syngenta Patent Family **80268** including those described in **COMPOSITIONS FOR POST-HARVEST TREATMENT AND RELATED METHODS**, filed in

**Country / Application Number / Filing Date**

**U.S. Patent Application No. 61/836583 filed 18 June 2013**

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, non-provisionals, continuations, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority

right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries or any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will to all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee; to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

This Assignment is deemed to be effective at least as early as 18 June 2013.

Inventor Signature \_\_\_\_\_  
Nagarajan RAMALINGAM

State of: \_\_\_\_\_

County of: \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State,  
do hereby certify that, Nagarajan RAMALINGAM, personally appeared before me this  
day, and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

(Official Seal)

\_\_\_\_\_  
Notary Public

Inventor Signature \_\_\_\_\_  
David Charles ROSS

State of: \_\_\_\_\_

County of: \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State,  
do hereby certify that, David Charles ROSS, personally appeared before me this day, and  
acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

(Official Seal)

\_\_\_\_\_  
Notary Public

Inventor Signature \_\_\_\_\_  
Matthew Robert COTTLE

State of: \_\_\_\_\_

County of: \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State,  
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(Official Seal)

\_\_\_\_\_  
Notary Public

Inventor Signature \_\_\_\_\_  
Eric Stephen OSHIGE

State of: \_\_\_\_\_

County of: \_\_\_\_\_

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(Official Seal)

\_\_\_\_\_  
Notary Public



Inventor Signature

Gabriel Ian OXBY

State of:

North Carolina

County of:

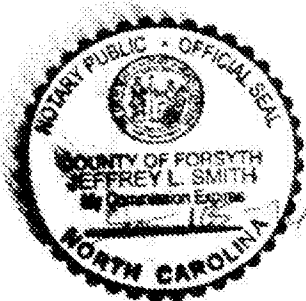
Grover

I, Jeffrey L. Smith, a Notary Public for said County and State, do hereby certify that, Gabriel Ian OXBY, personally appeared before me this day, and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this 23 day of September, 2013

(Official Seal)

Jeffrey L. Smith  
Notary Public




**SYNGENTA PARTICIPATIONS AG**

By: 

Printed Name: Kady Jones

Title: Patent Attorney

**SYNGENTA PARTICIPATIONS AG**

By: 

Printed Name: Lynn Stendker

Title: Paralegal

**ASSIGNMENT – WORLDWIDE**

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right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries or any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will to all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

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Inventor Signature N. Ramalingam  
Nagarajan RAMALINGAM

State of: North Carolina

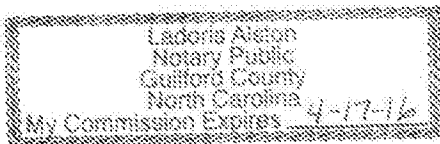
County of: Guilford

I, Ladonis Alston, a Notary Public for said County and State,  
do hereby certify that, Nagarajan RAMALINGAM, personally appeared before me this  
day, and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this 19<sup>th</sup> day of September, 2013.

(Official Seal)

Ladonis Alston  
Notary Public



Inventor Signature

David Charles ROSS  
David Charles ROSS

State of:

NC

County of:

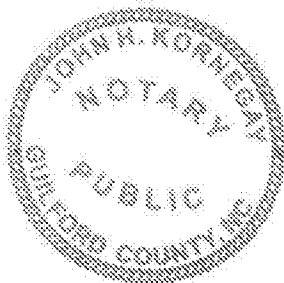
Guilford

I, John H. Kornegay, a Notary Public for said County and State,  
do hereby certify that, David Charles ROSS, personally appeared before me this day, and  
acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this 13<sup>th</sup> day of December, 2013.

(Official Seal)

John H. Kornegay  
Notary Public



Inventor Signature

Matthew Robert Cottle

Matthew Robert COTTLE

State of:

North Carolina

County of:

Guilford

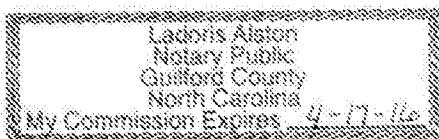
I, Ladonis Alston, a Notary Public for said County and State,  
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and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this 19<sup>th</sup> day of September, 2013.

(Official Seal)

Ladonis Alston

Notary Public



Inventor Signature Eric Stephen Oshige  
Eric Stephen OSHIGE

State of: North Carolina

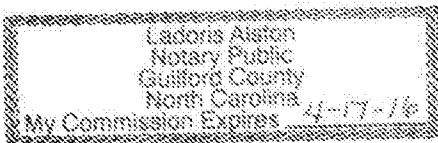
County of: Guilford

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(Official Seal)

Ladonis Alston  
Notary Public





Inventor Signature

Gabriel Ian OXBY

State of:

North Carolina

County of:

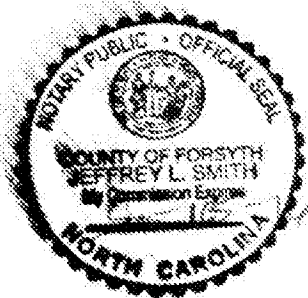
Guilford

I, Jeffrey L. Smith, a Notary Public for said County and State, do hereby certify that, Gabriel Ian OXBY, personally appeared before me this day, and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this 23 day of September, 2013

(Official Seal)

Jeffrey L. Smith  
Notary Public



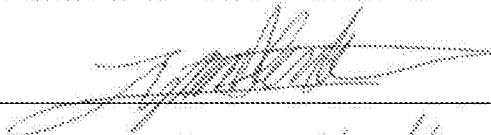
SYNGENTA PARTICIPATIONS AG

By: 

Printed Name: Kody Jones

Title: Patent Attorney

SYNGENTA PARTICIPATIONS AG

By: 

Printed Name: Lynn Stendler

Title: Para legal