503919143 07/18/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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

RECEIVING PARTY DATA

Name:	SYNGENTA PARTICIPATIONS AG
Street Address:	SCHWARZWALDALLEE 215
City:	BASEL
State/Country:	SWITZERLAND
Postal Code:	CH-4058

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14898556

CORRESPONDENCE DATA

Fax Number: (919)226-7458

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: 336.632-2238

Email: global.patents@syngenta.com

Correspondent Name: R. KODY JONES
Address Line 1: 410 SWING ROAD

Address Line 4: GREENSBORO, NORTH CAROLINA 27409

ATTORNEY DOCKET NUMBER:	80268-US-REG-ORG-P-1
NAME OF SUBMITTER:	LYNN STENDLER
SIGNATURE:	/Lynn Stendler/
DATE SIGNED:	07/18/2016

Total Attachments: 48

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PATENT REEL: 039378 FRAME: 0220

EPAS ID: PAT3965796

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ASSIGNMENT - WORLDWIDE

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

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

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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

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Country / Application Number / Filing Date

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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 Sates 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. Ramalinga	ing	
	Nagarajan RAMALIN	GAM	
State of: \(\int \lambda \text{\$\int	y Carolina	ww [*] ?	
County of:	ford		
i. Ladoris	Alston	, a Notary Public for said Cou	nty and State
do hereby certify that	it, Nagarajan RAMALIN	GAM, personally appeared b	efore me this
day, and acknowled	ged the due execution of	the foregoing instrument.	
Witness my hand an	d official seal this 1914	day of <u>September</u>	20 <u>13</u> .
(Official Seal)			
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Notary Public	<u> </u>		
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Notary Publ Guilford Cou	is Ny		
North Garoli My Commission Expires	4-17-16		

Inventor Signature	
	David Charles ROSS
State of:	
County of:	
Ĭ,	, a Notary Public for said County and State,
	t, David Charles ROSS, personally appeared before me this day, and execution of the foregoing instrument.
Witness my hand an	I official seal this day of, 20
(Official Seal)	
Notary Public	

Inventor Signatua	***************************************			
	Matthew Robert CO	TTLE		
State of:		:		
County of:				
Ţ		_, a Notary Public	e for said County	and State,
	that, Matthew Robert CO d the due execution of the			me this day
Witness my hand	and official seal this	day of		
(Official Seal)				
Notary Public		**		

Inventor Signature		
	Eric Stephen OSHIGE	
State of:		
1,	, a Notary Public for	said County and State
do hereby certify tha	t, Eric Stephen OSHIGE, personally appeare ne due execution of the foregoing instrument.	d before me this day,
Witness my hand and	d official seal this day of	20
(Official Seal)		
Notary Public		

Inventor Signature _				
	Gabriel Ian OXBY	***************************************		
Phone of the				
State of:		···········		
County of:				
1		, a Notary Pub	lic for said County	and State
do hereby certify that acknowledged the due				s day, and
Witness my hand and	official seal this	day of		20
(Official Seal)				
Notary Public	***************************************	~~~;		

SYNGENTA PARTICIPATIONS AG

Printed Name: Kody Jones

Title: Patent Altorney

SYNGENTA PARTICIPATIONS AG

Ву:

Printed Name: 1711 Stepher

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Inventor Signature	
Nagarajan RAMALJ	NGAM
State of: County of:	
I,	, a Notary Public for said County and State, INGAM, personally appeared before me this of the foregoing instrument.
Witness my hand and official seal this	day of20
(Official Seal)	
Notary Public	99)

Inventor Signature <u>QZQQ</u> David Charles ROSS	
State of:	
State of:C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.	
L. <u>John H. Kirologa up</u> , a Notary Public for said County and State do hereby certify that, David Charles ROSS, personally appeared before me this day, a	e, md
acknowledged the due execution of the foregoing instrument. Witness my hand and official scal this 15th day of 2000/1, 2013	
Officiel Scott A 1 A 1/2 A 1/	

Inventor Signature				
	Matthew Robert CO	ITLE		
State of:	<u></u>	x		
County of:				
<u> </u>		_, a Notary Publi	e for said County a	nd State,
do hereby certify tha	t, Matthew Robert CO ne due execution of the	TTLE, personally	appeared before n	
Witness my hand and	d official seal this	day of	20	
(Official Seal)				
Notary Public		ė.		

Inventor Signature		
	Eric Stephen OSHIGE	
do hereby certify thand acknowledged	a Notary Public for s lat, Eric Stephen OSHIGE, personally appeared the due execution of the foregoing instrument. and official seal this day of	before me this day,
(Official Seal)		
Notary Public		

Inventor Signature			
	Gabriel Ian OXBY	:	
State of:			
County of:			
- 5-0 Y-0-0-X-0-0-1-1-(A-X-0-4-1-2-2-4-1-2-2-4-1-2-2-4-1-2-2-2-2	COLUMN TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO T	, a Notary Publ	ic for said County and Sta
acknowledged the due			ired before me this day, an it.
Witness my hand and	official seal this	day of	20
(Official Seal)			
Notary Public		 .	

SYNGENTA PARTICIPATIONS AG

Printed Name: Kody Jones

Title: Patert Attorney

SYNGENTA PARTICIPATIONS AG

Ву:______

Printed Name: 1900 940046

Title: TATA RAD

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Inventor Signature		
Nagaraja	n RAMALINGAM	
State of:		
County of:		
Ĭ	, a Notary Public for s	said County and State.
do hereby certify that, Nagaraja	n RAMALINGAM, personally app	peared before me this
day, and acknowledged the due	execution of the foregoing instrum	ient.
Witness my hand and official se	eal this day of	20,
(Official Seal)		
Notary Public		

Inventor Signature	
	David Charles ROSS
State of:	
County of:	
do hereby certify tha	, a Notary Public for said County and State, t, David Charles ROSS, personally appeared before me this day, and the execution of the foregoing instrument.
Witness my hand and	I official seal this day of, 20
(Official Scal)	
Notary Public	

Inventor Signature
Matthew Robert COTTLE
State of: North Carolina
County of: Guilford
L Ladon'S Alston 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 19 in day of September, 2013.
(Official Seal)
Also altonia Valoriano Notary Public
Ladoris Alston Notary Public Guilford County North Carolina My Commission Expires 4-71-44
North Carolina My Commission Expires 4-77-46

Inventor Signature		
Eri	c Stephen OSHIGE	
State of:		
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(Official Seal)		
Notary Public		

Inventor Signature		
Gabriel Ian OXBY		
State of:		
County of:		
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(Official Seal)		
Notary Public	000)	

SYNGENTA PARTICIPATIONS AG

By: -/-/

Printed Name: Kody Jones

Title: Yatert Altorney

SYNGENTA PARTICIPATIONS AG

Ву:

Printed Name: VIII 540/46

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Inventor Signature		
Inventor SignatureNaga	arajan RAMALINGAM	
A		
State of:		
County of:		
do hereby certify that, Nag	, a Notary Public for arajan RAMALINGAM, personally ap due execution of the foregoing instru	opeared before me this
Witness my hand and offic	ial seal this day of	20
(Official Seal)		
Notary Public		

Inventor Signature	
	David Charles ROSS
County of:	
do hereby certify that	, a Notary Public for said County and State, at, David Charles ROSS, personally appeared before me this day, and the execution of the foregoing instrument.
Witness my hand an	d official seal this day of, 20,
(Official Seal)	
Notary Public	

Inventor Signature				
	Matthew Robert CO	TTLE		
State of:]		
County of:				
	t, Matthew Robert CO			
and acknowledged th	ne due execution of the	foregoing instru	ment.	
Witness my hand and	d official seal this	day of		
(Official Scal)				
Notary Public		A.		

tine sequent corner
state of: North Carolina
County of: Quifford
. <u>人名意内尔 科尼卡斯</u> , a Notary Public for said County and State to hereby certify that, Eric Stephen OSHIGE, personally appeared before me this day, and acknowledged the due execution of the foregoing instrument.
Vitness my hand and official seal this 19th day of <u>September</u> 2013.
Official Seal)
Ladoia alton
Votary Public
Ladoris Alston Notary Public Guillord Caurily North Carolina 4-17-76

Inventor Signature 24

Inventor Signature				
	Gabriel Ian OXBY			
State of:				
County of:				
do hereby certify th	at, Gabriel Ian OXBY lue execution of the fo	, personally app	peared before m	ounty and State e this day, and
Witness my hand ar	nd official seal this	day of		20
(Official Seal)				
Notare Public		······		

SYNGENTA PARTICIPATIONS AG

Printed Name: Kody Jones

Title: Patent Altoney

SYNGENTA PARTICIPATIONS AG

Ву:_________

Printed Name: Vin Stanfel

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

Inventor Signature		
are came original	Nagarajan RAMALINGAM	
State of:		
County of:		
do hereby certify th	, a Notary Pub nat, Nagarajan RAMALINGAM, persor Iged the due execution of the foregoing	ally appeared before me this
Witness my hand at	nd official seal this day of	20,
(Official Seal)		
Notary Public		

Inventor Signature	
	David Charles ROSS
State of:	
County of:	
Ĭ,	, a Notary Public for said County and State,
	 David Charles ROSS, personally appeared before me this day, and se execution of the foregoing instrument.
Witness my hand and	d official seal this day of, 20,
(Official Seal)	
Notary Public	

Inventor Signature				
	Matthew Robert CC			
State of:				
I.	t, Matthew Robert CC	, a Notary Pub	olic for said County	y and State.
	it, Mainew Robert CC ne due execution of the			c me uns uay
Witness my hand and	d official seal this	day of	, 20,	
(Official Seal)				
Notary Public				

Inventor Signature		
Eric Stephen OSI	HGE	
State of:		
I,	HIGE, personally appeared the foregoing instrument.	I before me this day,
(Official Seal) Notary Public		

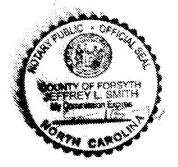
Inventor Signature Gabriel Ian OXBY

State of: Novil Care Care

Witness my hand and official seal this $\frac{23}{2}$ day of $\frac{\sqrt{2} \sqrt{2} \sqrt{2}}{2} \sqrt{2} \sqrt{2} \sqrt{2}$

(Official Seal)

Notary Public



REEL: 039378 FRAME: 0260

SYNGENTA PARTICIPATIONS AG

Printed Name: Kody Jones

Tille: Yatest Altorney

SYNGENTA PARTICIPATIONS AG

Ву:

Printed Name: 100 5400/61

Title: [arakas]

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 Sates 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. Romalius	inen,	
and an	Nagarajan RAMALI		
	(
State of: \(\frac{\sqrt{1/\left(\delta + \text{t}^2)}}{2\sqrt{1/\left(\delta + \text{t}^2)}}\)	h Carolino	,,,,,	
County of:	ford	···········	
I, Ladoris	Alston	a Notary Public for said Cou	ity and State
do nereby certify in:	at, Nagarajan KAMALLI	NGAM, personally appeared be	fore me this
		f the foregoing instrument.	
Witness my hand an	id official seal this <u>19</u> 7	day of <u>September</u>	20.13.
(Official Seal)			
Ladori			
Notary Public	<u> </u>		
isotai y saione			
reconstruction of the state of			
Notary Pub Guilford Cou			
North Caroli My Commission Expire	70.4-17-16.8 Language		

Inventor Signature <u>JaZ (JaZ</u>) David Charles ROSS	
State of:	
State of:County of:Curl []	
I. <u>The H. Kornega y</u> , a Notary Public for said County and State do hereby certify that, David Charles ROSS, personally appeared before me this day, an acknowledged the due execution of the foregoing instrument.	
Witness my hand and official seal this \(\frac{\int_1^8}{\text{day of }}\) \(\frac{\int_1^8\left(\frac{1}{\int_1^8}\left(\frac	
Official Scat) A. A. H. M. Unol	
Notary Pablic / / /	

Matthew Robert COTTLE
State of: North Carolina
County of <u>Ouilford</u>
I, Ladoris Alsier on State, do hereby certify that Matthew Robert COTTLE personally appeared before me this day
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 <u>19 th</u> day of <u>September</u> , 20 <u>8</u> .
(Official Seal)
Lalous alston
Notary Public
Ladoris Alston Notary Public Guilford County North Carolins My Commission Expires 4-72-42

State of: North Carolina.	:
County of: Call for A	
•	
L Ladoris Alston	_, a Notary Public for said County and State
do hereby certify that, Eric Stephen OSHIC and acknowledged the due execution of the	E, personally appeared before me this day,
Witness my hand and official seal this /	h day of <u>September</u> 20 <u>13</u> .
(Official Seal)	
Ladnia alaton	
Notary Public	
Ladoris Aisfon Notary Public Guilford Caumy North Carolins 14-17-1/6 My Commission Expires	
MY COMMINGER LANGER and comminger	

Inventor Signature Zen Septen OSHIGE

Inventor Signature'

Gabriel Ian OXBY

State of: $N_{EV} L C_{AV} L_{AV} L_{AV}$ County of: $L_{AV} L_{AV} L_{$

1, <u>Tellow</u>, 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 322 and 322 20

(Official Seal)

Notary Public



SYNGENTA PARTICIPATIONS AG

By: 253

Printed Name: Kody Jones

Title: Yater Attorney

SYNGENTA PARTICIPATIONS AG

Ву:

Printed Name: 4/0/1/5/6/0/16/

RECORDED: 07/18/2016