501821415 02/15/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Chil Y. Choi	06/11/2009
Gregory A. Hartmann	06/09/2009
Peng Lei	06/09/2009
Fuchen Liu	06/17/2009
William Poncez	06/09/2009
Peter E. Rogers	06/17/2009
William A. Scholle	06/24/2009
Lowell Smith	06/19/2009
Robert B. Weisenfeld	06/09/2009
Chen-Hsyong Yang	06/09/2009

RECEIVING PARTY DATA

Name:	Monsanto Technology LLC	
Street Address:	Address: 800 North Lindbergh Boulevard	
City:	St. Louis	
State/Country:	MISSOURI	
Postal Code:	63167	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13319811

CORRESPONDENCE DATA

Fax Number: (314)345-7000 Phone: 314-345-7000

Email: uspatents@senniger.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Senniger Powers LLP

PATENT

REEL: 027709 FRAME: 0591

OP \$40.00 13319811

501821415

Address Line 1: 100 North Broadway Address Line 2: 17th Floor St. Louis, MISSOURI 63102 Address Line 4: ATTORNEY DOCKET NUMBER: MTC 7004.2 (ACW/AXJ) NAME OF SUBMITTER: Anita Juric Total Attachments: 26 source=01693818#page1.tif source=01693818#page2.tif source=01693818#page3.tif source=01693818#page4.tif source=01693818#page5.tif source=01693818#page6.tif source=01693818#page7.tif source=01693818#page8.tif source=01693818#page9.tif source=01693818#page10.tif source=01693818#page11.tif source=01693818#page12.tif source=01693818#page13.tif source=01693818#page14.tif source=01693818#page15.tif source=01693818#page16.tif source=01693818#page17.tif source=01693818#page18.tif source=01693818#page19.tif source=01693818#page20 tif source=01693818#page21.tif source=01693818#page22.tif source=01693818#page23.tif source=01693818#page24.tif source=01693818#page25.tif

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PATENT REEL: 027709 FRAME: 0592

ASSIGNMENT

WHEREAS, We, Chil Y. Choi of Chesterfield, Missouri, Gregory A. Hartmann of Kirkwood, Missouri, Peng Lei of St.

Louis, Missouri, Fuchen Liu of Ballwin, Missouri, William Poncez of Kirkwood, Missouri, Peter E. Rogers of Des Peres, Missouri, William A. Scholle of Webster Groves, Missouri, Lowell Smith of Kirkwood, Missouri, Robert B. Weisenfeld of Chesterfield, Missouri, and Chen-Hsyong Yang of Brentwood, Missouri, have invented an improvement in RECOVERY OF PHOSPHORUS VALUES AND SALT IMPURITIES FROM AQUEOUS WASTE (39-21(56071)A/US; MTC 7004) and have executed an application for a United States patent based thereon assigned Serial No. 61/179,158, filed May 18, 2009;

AND, WHEREAS, Monsanto Technology LLC of St. Louis,
Missouri, a corporation of the State of Missouri (hereinafter
referred to as "ASSIGNEE") is desirous of acquiring certain
rights thereunder;

NOW, THEREFORE, for one dollar and other good and valuable consideration, receipt of all of which is hereby acknowledged, we have agreed to and do hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said invention, said United States application, any other United States applications (including provisional, non-provisional, divisional, continuing, or reissue applications)

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PATENT REEL: 027709 FRAME: 0593 based in whole or in part on said United States application or in whole or in part on said invention, any foreign applications based in whole or in part on any of the aforesaid United States applications or in whole or in part on said invention, and any and all patents (including extensions thereof) of any country which have been or may be granted on any of the aforesaid applications or on said invention or any part thereof;

TO BE HELD AND ENJOYED by said ASSIGNEE, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us had no sale and assignment of said interest been made;

AND We hereby authorize and request the Commissioner of Patents of the United States of America to issue any and all United States patents which may be granted upon said United States applications or any of them, or upon said invention or any part thereof, to said ASSIGNEE;

AND We hereby jointly and severally agree for ourselves and for our respective heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, divisional, continuing, reissue, or other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully to secure to said ASSIGNEE its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them;

and our respective legal representatives that we have granted no right or license to make, use or sell said invention, to anyone except said ASSIGNEE, that prior to the execution of this deed our right, title and interest in said invention had not been otherwise encumbered, and that we have not executed and will not execute any instrument in conflict herewith.

IN WITNESS WHEREOF, we have hereunto set our hands.

Jue 11, 2009

Chil Y. Choi

COUNTY OF St Louis

On this <u>ll</u> day of <u>lone</u>, <u>lone</u>, before me, a Notary Public, personally appeared Chil Y. Choi to me known to be the person described in and who executed the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal the date and year last above written.

Notary Public

My Commission Expires:

12/17/2011

PATRICIA A. HRASTICH
NOTARY PUBLIC - NOTARY SEAL
STATE OF MISSOURI
ST. LOUIS COUNTY
MY COMMISSION EXPIRES: 12/17/2011
COMMISSION #07510836

Date	Gregory A. Hartmann
STATE OF)	
COUNTY OF)	
be the person described,	, before me, a Notary red Gregory A. Hartmann to me known to in and who executed, the foregoing ged that he executed same as his free
IN TESTIMONY WHEREO and the date and year la	F, I have hereunto set my hand and seal st above written.
	Notary Public
My Commission Expires:	

Date	Peng Lei
STATE OF) COUNTY OF) On this day of	, before me, a Notary
Public, personally appear person described, in and	red Peng Lei to me known to be the who executed, the foregoing assignment executed same as his free act and deed
IN TESTIMONY WHEREOF and the date and year las	F, I have hereunto set my hand and seal st above written.
	Notary Public
My Commission Expires:	

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6/17/2009	
Date	

Fuchen Liu

COUNTY OF St hous

On this 17 day of 101209, before me, a Notary Public, personally appeared Fuchen Liu to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and the date and year last above written.

Notary Public

My Commission Expires:

12/12/2011

PATRICIA A. HRASTICH
NOTARY PUBLIC - NOTARY SEAL
STATE OF MISSOURI
ST. LOUIS COUNTY
MY COMMISSION EXPIRES: 12/17/2011
COMMISSION #07510836

June 9, 2009 Date William Poncez

STATE OF Missouri)

COUNTY OF St Louis)

On this Ath day of June 2009, before me, a Notary Public, personally appeared William Poncez to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and the date and year last above written.

Monda Mul Marsell Notary Public

My Commission Expires:

January 23, 2013

St. Louis County February Season # 09658658

61	17/09
Date	. , ,

Peter E. Rogers

STATE OF MISSOURI)
COUNTY OF Sthours)

On this 17 day of $\overline{June 2009}$, before me, a Notary Public, personally appeared Peter E. Rogers to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and the date and year last above written.

Coul D. Stemmler Notary Public

My Commission Expires:

July 14,2009

CAROL D. STEMMLER
Notary Public-Notary Seal
State of Missouri, St Louis County
Commission # 05403296
My Commission Expires Jul 16, 2009

24 JUNE 2009

Milliam V. Schalle
William A. Scholle

STATE OF MISSOUR!)
COUNTY OF ST. LOWIS)

On this 24th day of 500, 2009, before me, a Notary Public, personally appeared William A. Scholle to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and the date and year last above written.

Notary Public

My Commission Expires:

1-30-2012

EVERETT W. HOBBS
Notary Public - Notary Seal
STATE OF MISSOURI
St. Louis City
My Commission Expires: Jan. 30, 2012
Commission # 08514730

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(-19-	09
ח	ate	

Lowell Smith

STATE OF MISSOURI COUNTY OF St. Louis

On this 19 day of 100, before me, a Notary Public, personally appeared Lowell Smith to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and the date and year last above written.

Rotary Public

My Commission Expires:

July 16, 2009

CAROL D. STEMMLER
Notary Public-Notary Seat
State of Missouri, St Louis County
Commission # 05403296
My Commission Expires Jul 16, 2009

Date	Robert B. Weisenfeld
STATE OF) COUNTY OF)	
Public, personally appear be the person described,	, before me, a Notary red Robert B. Weisenfeld to me known to in and who executed, the foregoing red that he executed same as his free
IN TESTIMONY WHEREOF and the date and year las	r, I have hereunto set my hand and seal above written.
	Notary Public
My Commission Expires:	

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seal
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ACW/arc

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ASSIGNMENT

WHEREAS, We, Chil Y. Choi of Chesterfield, Missouri, Gregory A. Hartmann of Kirkwood, Missouri, Peng Lei of St.

Louis, Missouri, Fuchen Liu of Ballwin, Missouri, William Poncez of Kirkwood, Missouri, Peter E. Rogers of Des Peres, Missouri, William A. Scholle of Webster Groves, Missouri, Lowell Smith of Kirkwood, Missouri, Robert B. Weisenfeld of Chesterfield, Missouri, and Chen-Hsyong Yang of Brentwood, Missouri, have invented an improvement in RECOVERY OF PHOSPHORUS VALUES AND SALT IMPURITIES FROM AQUEOUS WASTE (39-21(56071)A/US; MTC 7004) and have executed an application for a United States patent based thereon assigned Serial No. 61/179,158, filed May 18, 2009;

AND, WHEREAS, Monsanto Technology LLC of St. Louis,
Missouri, a corporation of the State of Missouri (hereinafter
referred to as "ASSIGNEE") is desirous of acquiring certain
rights thereunder;

NOW, THEREFORE, for one dollar and other good and valuable consideration, receipt of all of which is hereby acknowledged, we have agreed to and do hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said invention, said United States application, any other United States applications (including provisional, non-provisional, divisional, continuing, or reissue applications)

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PATENT REEL: 027709 FRAME: 0606 based in whole or in part on said United States application or in whole or in part on said invention, any foreign applications based in whole or in part on any of the aforesaid United States applications or in whole or in part on said invention, and any and all patents (including extensions thereof) of any country which have been or may be granted on any of the aforesaid applications or on said invention or any part thereof;

TO BE HELD AND ENJOYED by said ASSIGNEE, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us had no sale and assignment of said interest been made;

AND We hereby authorize and request the Commissioner of Patents of the United States of America to issue any and all United States patents which may be granted upon said United States applications or any of them, or upon said invention or any part thereof, to said ASSIGNEE;

AND We hereby jointly and severally agree for ourselves and for our respective heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, divisional, continuing, reissue, or other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully to secure to said ASSIGNEE its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them;

Page 2 of 14

and our respective legal representatives that we have granted no right or license to make, use or sell said invention, to anyone except said ASSIGNEE, that prior to the execution of this deed our right, title and interest in said invention had not been otherwise encumbered, and that we have not executed and will not execute any instrument in conflict herewith.

IN WITNESS WHEREOF, we have hereunto set our hands.

Date	Chil Y. Choi
STATE OF	
Public, personally appear person described in and	, before me, a Notary ared Chil Y. Choi to me known to be the who executed the foregoing assignment executed same as his free act and deed.
IN TESTIMONY WHERECO	OF, I have hereunto set my hand and seal above written.
	Notary Public
My Commission Expires:	

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09-Jun	_	2009
Date		

Gregory A. Hartmann

STATE OF <u>Missouri</u>)
COUNTY OF <u>St. Louis</u>)

On this $\frac{9}{}$ day of $\frac{1009}{}$, before me, a Notary Public, personally appeared Gregory A. Hartmann to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and the date and year last above written.

Notary Public

My Commission Expires:

12/17/2011

PATRICIA A. HRASTICH
NOTARY PUBLIC - NOTARY SEAL
STATE OF MISSOURI
ST. LOUIS COUNTY
MY COMMISSION EXPIRES: 12/17/2011
COMMISSION #07510836

6/09	109
Date	

Perig Lei

COUNTY OF St Lovis

On this 9 day of 2009, 2009, before me, a Notary Public, personally appeared Peng Lei to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and the date and year last above written.

Notary Public

My Commission Expires:

12/17/2011

PATRICIA A. HRASTICH
NOTARY PUBLIC - NOTARY SEAL
STATE OF MISSOURI
ST. LOUIS COUNTY
MY COMMISSION EXPIRES: 12/17/2011
COMMISSION #07510836

Date	Fuchen Liu
STATE OF)	
COUNTY OF)	
person described, in and	, before me, a Notary red Fuchen Liu to me known to be the who executed, the foregoing assignment executed same as his free act and deed
IN TESTIMONY WHEREOF and the date and year las	F, I have hereunto set my hand and seal st above written.
	Notary Public
My Commission Expires:	

Date William Poncez
COUNTY OF)
On this day of, before me, a Notary Public, personally appeared William Poncez to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed.
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and the date and year last above written.
Notary Public
My Commission Expires:

Page 8 of 14

Date	Peter E. Rogers
STATE OF)	
COUNTY OF)	
Public, personally appears the person described, in assignment and acknowledge act and deed.	, before me, a Notary ed Peter E. Rogers to me known to be and who executed, the foregoing ed that he executed same as his free . I have hereunto set my hand and seal t above written.
ī	Notary Public
My Commission Expires:	

Page 9 of 14

Date W	illiam A. Scholle
STATE OF) COUNTY OF)	
the person described, in a	, before me, a Notary of William A. Scholle to me known to be and who executed, the foregoing of that he executed same as his free
IN TESTIMONY WHEREOF, and the date and year last	I have hereunto set my hand and seal above written.
N	otary Public
My Commission Expires:	

Page 10 of 14

Date	Lowell Smith
STATE OF)	
COUNTY OF)	
person described, in and	, before me, a Notary red Lowell Smith to me known to be the who executed, the foregoing assignment executed same as his free act and deed
IN TESTIMONY WHEREOF and the date and year las	F, I have hereunto set my hand and seal st above written.
	Notary Public
My Commission Expires:	

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6/9/09	Robert B Wesenfield
Date	Robert B. Weisenfeld

STATE OF Missouri)
COUNTY OF S+ (oois)

On this 9 day of 1009, 2009, before me, a Notary Public, personally appeared Robert B. Weisenfeld to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and the date and year last above written.

Notary Public

My Commission Expires:

12/17/2011

PATRICIA A. HRASTICH
NOTARY PUBLIC - NOTARY SEAL
STATE OF MISSOURI
ST. LOUIS COUNTY
MY COMMISSION EXPIRES: 12/17/2011
COMMISSION #07510836

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06/09/2009	
Date	

Chen-Hsyong Sang

COUNTY OF St Louis

On this 9 day of 2009, before me, a Notary Public, personally appeared Chen-Hsyong Yang to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and the date and year last above written.

Notary Public

My Commission Expires:

12/17/2011

PATRICIA A. HRASTICH
NOTARY PUBLIC - NOTARY SEAL
STATE OF MISSOURI
ST. LOUIS COUNTY
MY COMMISSION EXPIRES: 12/17/2011
COMMISSION #07510836

ACW/arc

RECORDED: 02/15/2012

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