

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5108305

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MATTHEW J. WEIS	06/08/2018
MICHAEL DAYAWON	12/08/2017
SCOTT ESSNER	01/08/2018
CHERYL FLORIDA	12/11/2017
ALAN JACKSON	12/04/2017
JEFFREY A. LICKENBROCK	12/05/2017
MARK J. MENIUS	04/01/2016
RYAN K. TELLOR	12/04/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MONSANTO TECHNOLOGY LLC
<b>Street Address:</b>	800 N. LINDBERGH BOULEVARD
<b>City:</b>	ST. LOUIS
<b>State/Country:</b>	MISSOURI
<b>Postal Code:</b>	63167
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15735071
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(314)728-5575
<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>	3147259100
<b>Email:</b>	patents@sandbergphoenix.com
<b>Correspondent Name:</b>	SANDBERG PHOENIX & VON GONTARD P.C.
<b>Address Line 1:</b>	120 S. CENTRAL, SUITE 1600
<b>Address Line 2:</b>	SCOTT T. GRAY
<b>Address Line 4:</b>	ST. LOUIS, MISSOURI 63105
<b>ATTORNEY DOCKET NUMBER:</b>	52-21(59237)0001/US
<b>NAME OF SUBMITTER:</b>	SCOTT T. GRAY
<b>SIGNATURE:</b>	/Scott T. Gray/

PATENT

DATE SIGNED:	08/24/2018
<b>Total Attachments: 18</b> source=Assignment Minus Menius MONS E561W1#page1.tif source=Assignment Minus Menius MONS E561W1#page2.tif source=Assignment Minus Menius MONS E561W1#page3.tif source=Assignment Minus Menius MONS E561W1#page4.tif source=Assignment Minus Menius MONS E561W1#page5.tif source=Assignment Minus Menius MONS E561W1#page6.tif source=Assignment Minus Menius MONS E561W1#page7.tif source=Assignment Minus Menius MONS E561W1#page8.tif source=Assignment Minus Menius MONS E561W1#page9.tif source=Assign Execd All From Prov App MONS E561US#page1.tif source=Assign Execd All From Prov App MONS E561US#page2.tif source=Assign Execd All From Prov App MONS E561US#page3.tif source=Assign Execd All From Prov App MONS E561US#page4.tif source=Assign Execd All From Prov App MONS E561US#page5.tif source=Assign Execd All From Prov App MONS E561US#page6.tif source=Assign Execd All From Prov App MONS E561US#page7.tif source=Assign Execd All From Prov App MONS E561US#page8.tif source=Assign Execd All From Prov App MONS E561US#page9.tif	

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented

**HIGH THROUGHPUT CASSETTE FILLER**

which forms the subject matter of United States provisional patent application filed on June 8, 2015, and assigned Serial No 62/172,576, and US National stage application filed on December 8, 2017 and assigned Serial No. 15/735,071, and

WHEREAS, Monsanto Technology LLC, a corporation of the State of Delaware, having its principal place of business at 800 N Lindbergh Boulevard, St Louis, Missouri 63167, hereinafter referred to as Assignee, is desirous of acquiring an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor by these presents does sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the said invention as described in the aforesaid application and any and all improvements thereto; said application for patent and all Letters Patent granted therefor in any country to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted; and any and all derivative or continuing applications including any and all divisionals, continuations, continuations-in-part, extensions, renewals and reissues thereof, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made.

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title to said invention, the United States application for patent, or Letters Patent therefor, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale or agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

Matthew J. Weis 6/8/18  
Matthew J. Weis Date

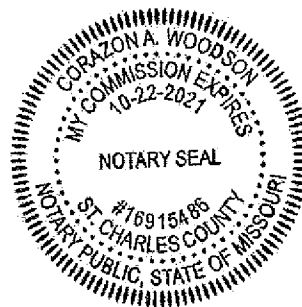
STATE OF Missouri )  
COUNTY OF St. Louis ) SS.

On this 8<sup>th</sup> day of June, 2018, before me, a Notary Public, personally appeared Matthew J. Weis, to me known to be the person named in and who executed the above Assignment, and acknowledged to me that he executed the same for the uses and purposes therein mentioned, as his own free act and deed.

Corazon A. Woodson  
Notary Public

My Commission Expires:

10-22-2021



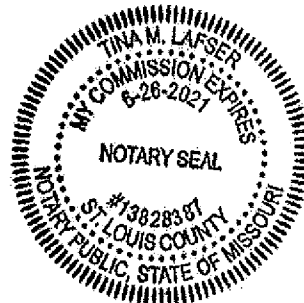
Michael Dayawon 12/8/17  
Michael Dayawon Date

STATE OF Missouri )  
COUNTY OF St. Louis ) SS.

On this 8 day of December, 2017, before me, a Notary Public, personally appeared Michael Dayawon, to me known to be the person named in and who executed the above Assignment, and acknowledged to me that he executed the same for the uses and purposes therein mentioned, as his own free act and deed.

L. M. L.  
Notary Public

My Commission Expires: 6/24/2021



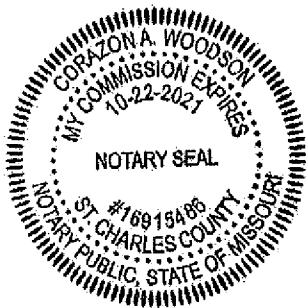
Scott Essner 1/8/18  
Scott Essner Date

STATE OF Missouri )  
COUNTY OF St. Louis ) SS.

On this 8th day of January, 2018, before me, a Notary Public, personally appeared Scott Essner, to me known to be the person named in and who executed the above Assignment, and acknowledged to me that he executed the same for the uses and purposes therein mentioned, as his own free act and deed.

Corazon A. Woodson  
Notary Public

My Commission Expires: 10/22/2021



Cheryl Florida 12/11/17  
Cheryl Florida Date

STATE OF MISSOURI )  
COUNTY OF St. Louis ) SS.

On this 11<sup>th</sup> day of December, 2017, before me, a Notary Public, personally appeared Cheryl Florida, to me known to be the person named in and who executed the above Assignment, and acknowledged to me that he executed the same for the uses and purposes therein mentioned, as his own free act and deed.

Carol D Stemmler  
Notary Public

My Commission Expires:

July 16, 2021



CAROL D STEMMLER  
My Commission Expires  
July 16, 2021  
St. Louis County  
Commission #13403296

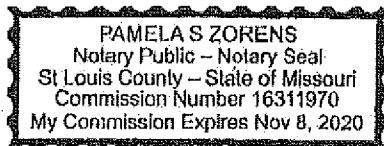
Alan Jackson  
Alan Jackson Date

STATE OF Missouri )  
COUNTY OF St. Louis ) SS.

On this 4 day of December, 2017, before me, a Notary Public, personally appeared Alan Jackson, to me known to be the person named in and who executed the above Assignment, and acknowledged to me that he executed the same for the uses and purposes therein mentioned, as his own free act and deed.

Pamela S. Zorens  
Notary Public

My Commission Expires:





Jeffrey A. Lickenbrock 05 DEC 2017  
Jeffrey A. Lickenbrock Date

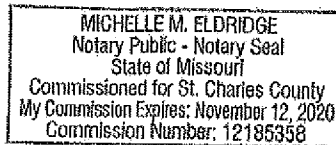
STATE OF MO )  
COUNTY OF St Louis ) SS.

On this 5<sup>th</sup> day of DECEMBER, 2017, before me, a Notary Public, personally appeared Jeffrey A. Lickenbrock, to me known to be the person named in and who executed the above Assignment, and acknowledged to me that he executed the same for the uses and purposes therein mentioned, as his own free act and deed.

Michelle M. Eldridge  
Notary Public

My Commission Expires:

11-12-20.



\_\_\_\_\_  
Mark J. Menius Date

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS  
)

On this \_\_\_\_\_ day of \_\_\_\_\_, 201\_\_\_\_, before me, a Notary Public,  
personally appeared Mark J. Menius, to me known to be the person named in and who  
executed the above Assignment, and acknowledged to me that he executed the same for  
the uses and purposes therein mentioned, as his own free act and deed.

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

My Commission Expires

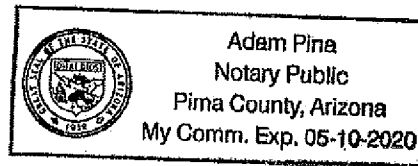
Ryan K. Teller 12/4/17  
Ryan K. Teller Date

STATE OF Arizona )  
COUNTY OF Pima ) SS.

On this 4th day of December, 2017, before me, a Notary Public, personally appeared Ryan K. Teller, to me known to be the person named in and who executed the above Assignment, and acknowledged to me that he executed the same for the uses and purposes therein mentioned, as his own free act and deed.

[Signature]  
Notary Public

My Commission Expires: 5/10/2020



WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

**HIGH THROUGHPUT CASSETTE FILLER**

which forms the subject matter of United States provisional patent application filed on June 8, 2015, and assigned Serial No. 62/172,576, and

WHEREAS, Monsanto Technology LLC, a corporation of the State of Delaware, having its principal place of business at 800 N. Lindbergh Boulevard, St. Louis, Missouri 63167, hereinafter referred to as Assignee, is desirous of acquiring an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor by these presents does sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to: the said invention as described in the aforesaid application and any and all improvements thereto; said application for patent and all Letters Patent granted therefor in any country to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted; and any and all derivative or continuing applications including any and all divisionals, continuations, continuations-in-part, extensions, renewals and reissues thereof, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made.

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title to said invention, the United States application for patent, or Letters Patent therefor, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale or agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

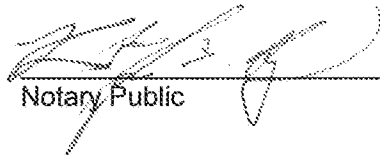
Assignor hereby requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

  
Matthew J. Weis

2/8/2016  
Date

STATE OF Missouri )  
COUNTY OF Franklin ) SS.

On this 8th day of February, 2016, before me, a Notary Public, personally appeared Matthew J. Weis, to me known to be the person named in and who executed the above Assignment, and acknowledged to me that he executed the same for the uses and purposes therein mentioned, as his own free act and deed.

  
Notary Public

My Commission Expires:  
7-6-2015

Michael Dayawon  
Michael Dayawon

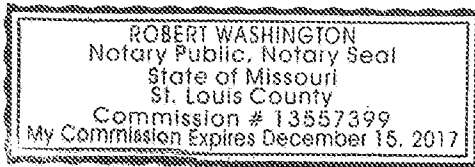
11 / 11 / 15  
Date

STATE OF Missouri )  
COUNTY OF Saint Louis ) SS.

On this 11 day of November, 2015, before me, a Notary Public, personally appeared Michael Dayawon, to me known to be the person named in and who executed the above Assignment, and acknowledged to me that he executed the same for the uses and purposes therein mentioned, as his own free act and deed.

[Signature]  
Notary Public

My Commission Expires: 12/15/2017

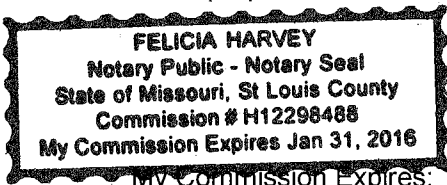


Scott Essner  
Scott Essner

11/12/15  
Date

STATE OF Missouri )  
 ) SS.  
COUNTY OF St. Louis )

On this 12 day of November, 2015, before me, a Notary Public, personally appeared Scott Essner, to me known to be the person named in and who executed the above Assignment, and acknowledged to me that he executed the same for the uses and purposes therein mentioned, as his own free act and deed.



[Signature]  
Notary Public

My Commission Expires: 1/31/16

Cheryl Florida  
Cheryl Florida

12-7-2015  
Date

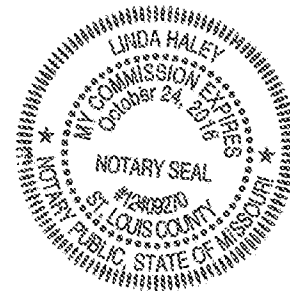
STATE OF Missouri )  
COUNTY OF St. Louis ) SS.

On this 7 day of December, 2015, before me, a Notary Public, personally appeared Cheryl Florida, to me known to be the person named in and who executed the above Assignment, and acknowledged to me that he executed the same for the uses and purposes therein mentioned, as his own free act and deed.

Linda Haley  
Notary Public

My Commission Expires:

October 24, 2016





Alan Jackson  
Alan Jackson

11-03-2015  
Date

STATE OF Missouri )  
COUNTY OF Saint Louis ) SS.  
)

On this 3 day of November, 2015, before me, a Notary Public, personally appeared Alan Jackson, to me known to be the person named in and who executed the above Assignment, and acknowledged to me that he executed the same for the uses and purposes therein mentioned, as his own free act and deed.



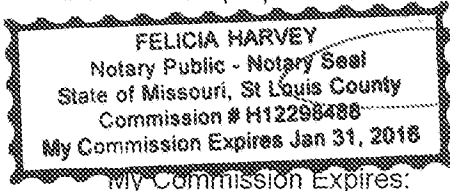
[Signature]  
Notary Public

Jeffrey A. Lickenbrock  
Jeffrey A. Lickenbrock

03 Nov 2015  
Date

STATE OF Missouri )  
COUNTY OF Saint Louis ) SS.

On this 3 day of November, 2015, before me, a Notary Public, personally appeared Jeffrey A. Lickenbrock, to me known to be the person named in and who executed the above Assignment, and acknowledged to me that he executed the same for the uses and purposes therein mentioned, as his own free act and deed.



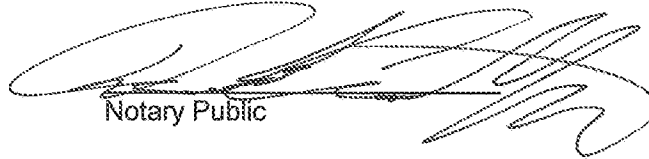
[Signature]  
Notary Public

Mark J. Menius  
Mark J. Menius

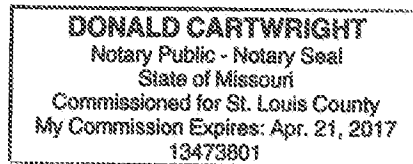
1 Apr 2016  
Date

STATE OF Missouri )  
COUNTY OF St. Louis ) SS.

On this 1<sup>st</sup> day of April, 2016, before me, a Notary Public, personally appeared Mark J. Menius, to me known to be the person named in and who executed the above Assignment, and acknowledged to me that he executed the same for the uses and purposes therein mentioned, as his own free act and deed.

  
Notary Public

My Commission Expires:



Ryan K. Teller

Date

12/15/2015

STATE OF

Hawaii

COUNTY OF

Mani

)  
) SS.  
)

On this 15 day of December, 2015, before me, a Notary Public, personally appeared Ryan K. Teller, to me known to be the person named in and who executed the above Assignment, and acknowledged to me that he executed the same for the uses and purposes therein mentioned, as his own free act and deed.

Kristie Halvorson  
Notary Public

My Commission Expires:

5/24/19



Doc. Date: 12.15.15 # Pages: 9  
Kristie Halvorson 2nd Circuit  
Doc. Description High throughput  
Cassette Teller

Kristie Halvorson 12.15.15  
Notary Signature Date

NOTARY CERTIFICATION