

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5383119

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ANTTI HEIKKINEN	09/18/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INTERNATIONAL PAPER COMPANY
<b>Street Address:</b>	6400 POPLAR AVENUE
<b>City:</b>	MEMPHIS
<b>State/Country:</b>	TENNESSEE
<b>Postal Code:</b>	38197
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16133995
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>Email:</b>	patents@ipaper.com
<b>Correspondent Name:</b>	THOMAS W. BARNES, III
<b>Address Line 1:</b>	6400 POPLAR AVENUE
<b>Address Line 2:</b>	TOWER IV, 9TH FLOOR - LEGAL DEPARTMENT
<b>Address Line 4:</b>	MEMPHIS, TENNESSEE 38197
<b>ATTORNEY DOCKET NUMBER:</b>	TEC-119718-US
<b>NAME OF SUBMITTER:</b>	THOMAS W. BARNES, III
<b>SIGNATURE:</b>	/Thomas W. Barnes, III/
<b>DATE SIGNED:</b>	02/20/2019
<b>Total Attachments: 14</b>	
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**ASSIGNMENT OF INVENTION AND OF LETTERS PATENT**

WHEREAS, I, Antti Heikkinen, residing Finland, am a citizen of the country of Finland and have invented certain new and useful inventions or improvements relating to method and apparatus for controlling a fiber fractionation system for which I have executed an application for Letters Patent of the United States of America, entitled "METHOD AND APPARATUS FOR CONTROLLING A FIBER FRACTIONATION SYSTEM", filed on September 18, 2017, and having been afforded Serial No. 62/559,861 by the United States Patent and Trademark Office; and

WHEREAS, I, Jyrki Tapio Jaakkola, residing at 5609 Marks Drive, Gainesville, GA 30506, US, am citizen of the United States of America and have invented certain new and useful inventions or improvements relating to method and apparatus for controlling a fiber fractionation system for which I have executed an application for Letters Patent of the United States of America, entitled "METHOD AND APPARATUS FOR CONTROLLING A FIBER FRACTIONATION SYSTEM", filed on September 18, 2017, and having been afforded Serial No. 62/559,861 by the United States Patent and Trademark Office; and

WHEREAS, International Paper Company, a corporation of the State of New York having a place of business at 6400 Poplar Avenue, Memphis, Tennessee 38197 (hereinafter, "Assignee"), is desirous of obtaining the entire right, title and interest in and to the said inventions or improvements throughout the world, the said application for United States Letters Patent and any granted United States Letters Patent claiming priority thereto, and any applications for Letters Patent and the Letters Patent therefor in any country foreign to the United States claiming priority thereto.

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell, assign and transfer and set over unto the said Assignee, its successors, legal representatives and assigns, my entire right, title and interest in the said inventions or improvements, and to the said application for Letters Patent and to all divisions, renewals and continuations thereof, and to any invention or improvement made by me which is described in said application, and to all applications for Letters Patent which may hereafter be filed for said invention or improvement, in any country or countries foreign to the United States, and to all Letters Patent which may be granted for said inventions or improvements, in any country or countries foreign to the United States, claiming priority thereto, and all extensions, renewals and reissues thereof;

AND, I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country of countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said inventions or improvements to the said Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

AND, I HEREBY covenant that I have full right to convey the entire right, title and interest herein assigned, and that I have not executed and will not execute, any agreement in conflict herewith;

AND, I HEREBY authorize and request the attorney of record in the said application for Letters Patent to insert in the above right hand corner of this Assignment the serial number and filing date of the said application when officially known;

AND, I HEREBY further covenant and agree that I will communicate to the said Assignee, its successors, legal representatives and assigns, any and all facts known to me respecting said inventions or improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, reissue, continuation, and continuation-in-part applications, make all rightful oaths and generally do everything possible to aid the said Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said inventions or improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 18<sup>th</sup> day of SEPTEMBER, 2018.

  
 ANTTI HEIKKINEN

STATE OF FLORIDA )  
 ) ss  
 COUNTY PINELLAS )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me, a Notary Public in and for the State and County aforesaid, personally appeared ANTTI HEIKKINEN to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be his/her free act and deed.

Time and place : \_\_\_\_\_  
 Notary's signature: \_\_\_\_\_  
 Name in block letters: \_\_\_\_\_  
 Position: \_\_\_\_\_  
 Notary's symbol: \_\_\_\_\_

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

\_\_\_\_\_  
JYRKI TAPIO JAAKKOLA

STATE OF \_\_\_\_\_ )  
  ) ss:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me, a Notary Public in and for the State and County aforesaid, personally appeared \_\_\_\_\_ to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be his/her free act and deed.

\_\_\_\_\_  
Notary Public  
My commission expires:  
\_\_\_\_\_

FURTHERMORE, INTERNATIONAL PAPER COMPANY does hereby declare that it accepts the assignment in question.

INTERNATIONAL PAPER COMPANY

BY: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Attorney Docket No. TEC-119718-P1

Ser. No. 62/559,861  
Filed on 18-SEP-2017

### ASSIGNMENT OF INVENTION AND OF LETTERS PATENT

WHEREAS, I, Antti Jalmari Heikkinen, residing Finland, am a citizen of the country of Finland and have invented certain new and useful inventions or improvements relating to method and apparatus for controlling a fiber fractionation system for which I have executed an application for Letters Patent of the United States of America, entitled "METHOD AND APPARATUS FOR CONTROLLING A FIBER FRACTIONATION SYSTEM", filed on September 18, 2017, and having been afforded Serial No. 62/559,861 by the United States Patent and Trademark Office; and

WHEREAS, I, Jyrki Tapio Jaakkola, residing at 5609 Marks Drive, Gainesville, GA 30506, US, am citizen of the United States of America and have invented certain new and useful inventions or improvements relating to method and apparatus for controlling a fiber fractionation system for which I have executed an application for Letters Patent of the United States of America, entitled "METHOD AND APPARATUS FOR CONTROLLING A FIBER FRACTIONATION SYSTEM", filed on September 18, 2017, and having been afforded Serial No. 62/559,861 by the United States Patent and Trademark Office; and

WHEREAS, International Paper Company, a corporation of the State of New York having a place of business at 6400 Poplar Avenue, Memphis, Tennessee 38197 (hereinafter, "Assignee"), is desirous of obtaining the entire right, title and interest in and to the said inventions or improvements throughout the world, the said application for United States Letters Patent and any granted United States Letters Patent claiming priority thereto, and any applications for Letters Patent and the Letters Patent therefor in any country foreign to the United States claiming priority thereto.

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell, assign and transfer and set over unto the said Assignee, its successors, legal representatives and assigns, my entire right, title and interest in the said inventions or improvements, and to the said application for Letters Patent and to all divisions, renewals and continuations thereof, and to any invention or improvement made by me which is described in said application, and to all applications for Letters Patent which may hereafter be filed for said invention or improvement, in any country or countries foreign to the United States, and to all Letters Patent which may be granted for said inventions or improvements, in any country or countries foreign to the United States, claiming priority thereto, and all extensions, renewals and reissues thereof;

AND, I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country of countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said inventions or improvements to the said Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

AND, I HEREBY covenant that I have full right to convey the entire right, title and interest herein assigned, and that I have not executed and will not execute, any agreement in conflict herewith;

AND, I HEREBY authorize and request the attorney of record in the said application for Letters Patent to insert in the above right hand corner of this Assignment the serial number and filing date of the said application when officially known;

AND, I HEREBY further covenant and agree that I will communicate to the said Assignee, its successors, legal representatives and assigns, any and all facts known to me respecting said inventions or improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, reissue, continuation, and continuation-in-part applications, make all rightful oaths and generally do everything possible to aid the said Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said inventions or improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this nineteen day of september, 2018.

  
ANTTI JALMARI HEIKKINEN

YO, CRISTINA MARQUES MOSQUERA Notario del Ilustre Colegio de Madrid, con residencia en Fuenlabrada, HAGO CONSTAR: Que considero legitima la firma que antecede que corresponde a DON ANTTI JALMARI HEIKKINEN, con Pasaporte de Finlandia número PT8605751, por haber sido puesta en mi presencia en este documento que esta integramente redactado en inglés, idioma que conozco. DOY FE. En Fuenlabrada, a diecinueve de septiembre de dos mil dieciocho. -----

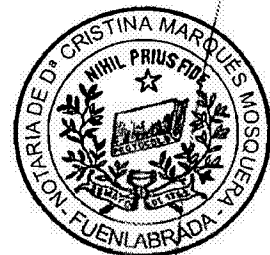
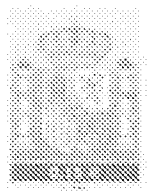
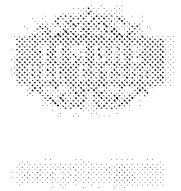
La presente legitimación ha sido consignada en acta autorizada por mí en el día de hoy con el número 1122 de protocolo, a los fines previstos en el artículo 207 del Reglamento Notarial. -----

Legitimación asentada en el Libro Indicador sección segunda con el número 64. -----



EE5384118

03/2018



PA18-0856-----ACTA A INSTANCIA DE DON ANTTI  
JALMARI HEIKKINEN. -----

NUMERO MIL CIENTO VEINTIDÓS.-----

En Fuenlabrada, mi residencia, a diecinueve de  
septiembre de dos mil dieciocho. -----

Ante mí, CRISTINA MARQUES MOSQUERA -----  
Notario del Ilustre Colegio de Madrid,-----

-----COMPARECE-----

DON ANTTI JALMARI HEIKKINEN, mayor de edad,  
casado, de nacionalidad finlandesa, Ingeniero,  
domiciliado a estos efectos en Fuenlabrada  
(Madrid), calle del Papel número 1. Tiene Pasaporte  
de Finlandia número PT8605751 vigente hasta el día  
siete de noviembre de dos mil dieciocho. -----

Identifico al compareciente por su pasaporte  
reseñado. -----

Interviene, en su propio nombre y derecho.-----

Tiene, a mi juicio, capacidad e interés  
legítimo para este acto y al efecto -----

-----DICE-----



I.- Que el compareciente ha de transmitir su patente denominada "METHOD AND APPARATUS FOR CONTROLLING A FIBER FRACTIONATION SYSTEM" con número de serie 62/559,86 inscrita en el Registro de patentes de United States Patent and Trademark Office. -----

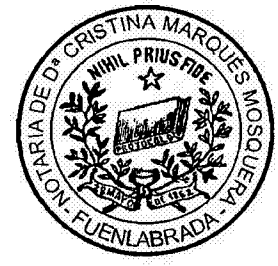
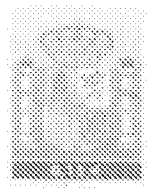
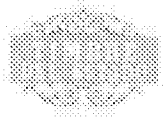
II.- A este efecto, ha redactado un documento que él ha firmado, cuyo contenido conoce y quiere que surta los efectos que le sean aplicables conforme a las leyes de Estados Unidos. -----

Yo, la Notario, legitimo la firma de dicho documento, que el señor compareciente manifiesta es la suya, a los fines previstos en el artículo 207 del Reglamento Notarial, e incorporo a esta matriz fotocopia por mí obtenida. El texto del testimonio de legitimación que he puesto en el mismo es el siguiente: "Yo, CRISTINA MARQUES MOSQUERA Notario de Fuenlabrada, del Ilustre Colegio Notarial de Madrid, HAGO CONSTAR: Que conozco y considero legítima la firma que antecede de DON ANTTI JALMARI HEIKKINEN. A continuación, figura la fecha, mi signo, firma, rúbrica y sello y referencia a la presente acta. -----

Que los datos personales del otorgante, o de

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01/2015

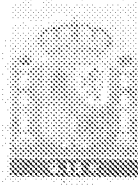
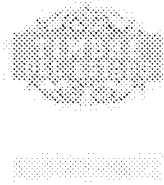


los otorgantes en su caso, serán objeto de tratamiento en esta Notaría, los cuales son necesarios para el cumplimiento de las obligaciones legales del ejercicio de la función pública notarial, conforme a lo previsto en la normativa notarial, de prevención del blanqueo de capitales, tributaria y, en su caso, sustantiva, que resulte aplicable al acto o negocio jurídico documentado. La comunicación de los datos personales es un requisito legal, encontrándose el otorgante obligado a facilitar los datos personales, y estando informado de que la consecuencia de no facilitar tales datos es que no sería posible autorizar o intervenir el presente documento público. Sus datos se conservarán con carácter confidencial. La finalidad del tratamiento de los datos es cumplir la normativa para autorizar/intervenir el presente documento, su facturación, seguimiento posterior y las funciones propias de la actividad notarial de obligado

cumplimiento, de las que pueden derivarse la existencia de decisiones automatizadas, autorizadas por la Ley, adoptadas por las Administraciones Públicas y entidades cesionarias autorizadas por Ley, incluida la elaboración de perfiles precisos para la prevención e investigación por las autoridades competentes del blanqueo de capitales y la financiación del terrorismo. El notario realizará las cesiones de dichos datos que sean de obligado cumplimiento a las Administraciones Públicas, a las entidades y sujetos que estipule la Ley y, en su caso, al Notario que suceda o sustituya al actual en esta notaría. Los datos proporcionados se conservarán durante los años necesarios para cumplir con las obligaciones legales del Notario o quien le sustituya o suceda. Cualquier otorgante puede ejercitar sus derechos de acceso, rectificación, supresión, limitación, portabilidad y oposición al tratamiento por correo postal ante la Notaría autorizante, sita en Fuenlabrada, plaza de la Constitución nº 3, 4ª planta. Asimismo, tiene el derecho a presentar una reclamación ante una autoridad de control. Los datos serán tratados y protegidos según la

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01/2018



Legislación Notarial, la Ley Orgánica 15/1999 de 13 de diciembre de Protección de Datos de Carácter Personal (o la Ley que la sustituya) y su normativa de desarrollo, y el Reglamento (UE) 2016/679 del Parlamento europeo y del Consejo de 27 de abril de 2016 relativo a la protección de las personas físicas en lo que respecta al tratamiento de datos personales y a la libre circulación de estos datos y por el que se deroga la Directiva 95/46/CE. -----

Leo el presente instrumento público al señor compareciente, traduciéndoselo yo, la notaria al idioma inglés, idioma que conozco, por no conocer el compareciente el idioma español, se muestra conforme y firma. -----

De todo lo cual, así como de quedar extendida en tres folios de papel notarial de timbre del Estado, números el del presente y los dos siguientes correlativos, yo el Notario, doy fe. ---

SIGUE LA FIRMA DEL SEÑOR COMPARECIENTE.-----

SIGNO, FIRMA, RUBRICA Y SELLO DEL NOTARIO AUTORIZANTE. -----

-----DOCUMENTO UNIDO -----

Attorney Docket No. TEC-119718-P1

Ser. No. 62/559,861  
Filed on 18-SEP-2017

### ASSIGNMENT OF INVENTION AND OF LETTERS PATENT

WHEREAS, I, Antti Jalmari Heikkinen, residing Finland, am a citizen of the country of Finland and have invented certain new and useful inventions or improvements relating to method and apparatus for controlling a fiber fractionation system for which I have executed an application for Letters Patent of the United States of America, entitled "METHOD AND APPARATUS FOR CONTROLLING A FIBER FRACTIONATION SYSTEM", filed on September 18, 2017, and having been afforded Serial No. 62/559,861 by the United States Patent and Trademark Office; and

WHEREAS, I, Jyrki Tapio Jaakkola, residing at 5609 Marks Drive, Gainesville, GA 30506, US, am a citizen of the United States of America and have invented certain new and useful inventions or improvements relating to method and apparatus for controlling a fiber fractionation system for which I have executed an application for Letters Patent of the United States of America, entitled "METHOD AND APPARATUS FOR CONTROLLING A FIBER FRACTIONATION SYSTEM", filed on September 18, 2017, and having been afforded Serial No. 62/559,861 by the United States Patent and Trademark Office; and

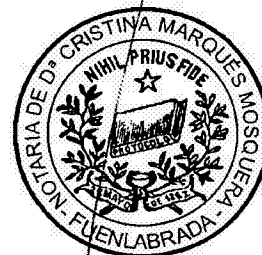
WHEREAS, International Paper Company, a corporation of the State of New York having a place of business at 6400 Poplar Avenue, Memphis, Tennessee 38197 (hereinafter, "Assignee"), is desirous of obtaining the entire right, title and interest in and to the said inventions or improvements throughout the world, the said application for United States Letters Patent and any granted United States Letters Patent claiming priority thereto, and any applications for Letters Patent and the Letters Patent therefor in any country foreign to the United States claiming priority thereto.

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell, assign and transfer and set over unto the said Assignee, its successors, legal representatives and assigns, my entire right, title and interest in the said inventions or improvements, and to the said application for Letters Patent and to all divisions, renewals and continuations thereof, and to any invention or improvement made by me which is described in said application, and to all applications for Letters Patent which may hereafter be filed for said invention or improvement, in any country or countries foreign to the United States, and to all Letters Patent which may be granted for said inventions or improvements, in any country or countries foreign to the United States, claiming priority thereto, and all extensions, renewals and reissues thereof;

AND, I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country of countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said inventions or improvements to the said Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

EE5384121

01/2018



Attorney Docket No. TEC-119718-P1

Ser. No. 62359.861  
Filed on 18-SEP-2017

AND, I HEREBY covenant that I have full right to convey the entire right, title and interest herein assigned, and that I have not executed and will not execute, any agreement in conflict herewith.

AND, I HEREBY authorize and request the attorney of record in the said application for Letters Patent to insert in the above right hand corner of this Assignment the serial number and filing date of the said application when officially known.

AND, I HEREBY further covenant and agree that I will communicate to the said Assignee, its successors, legal representatives and assigns, any and all facts known to me respecting said inventions or improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, reissue, continuation, and continuation-in-part applications, make all rightful oaths and generally do everything possible to aid the said Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said inventions or improvements in all countries.

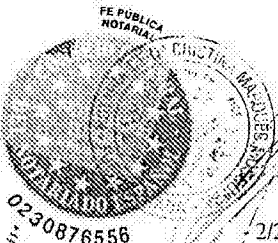
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this nineteenth day of september, 2018.

  
ANTTI JALMARI HEIKKINEN

YO, CRISTINA MARQUES MOSQUERA Notario del Ilustre Colegio de Madrid, con residencia en Fuenlabrada, HAGO CONSTAR: Que considero legitima la firma que antecede que corresponde a DON ANTTI JALMARI HEIKKINEN, con Pasaporte de Finlandia número PT8605751, por haber sido puesta en mi presencia en este documento que está íntegramente redactado en inglés, idioma que conozco. DOY FE. En Fuenlabrada, a diecinueve de septiembre de dos mil dieciocho.

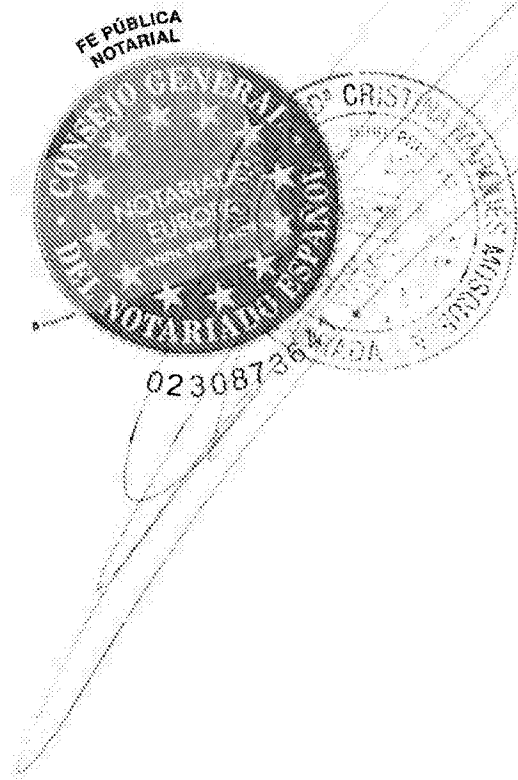
La presente legitimación ha sido consignada en acta autorizada por mí en el día de hoy con el número 1122 de protocolo, a los fines previstos en el artículo 207 del Reglamento Notarial.

Legitimación asentada en el Libro Indicador sección segunda con el número 64.



A242272137

ES COPIA de su original que, para el compareciente expido en Fuenlabrada el mismo día de su otorgamiento, en cuatro folios de papel notarial de Timbre del Estado, números el del presente y los tres anteriores en orden.-DOY FE.-



IN TESTIMONY WHEREOF, I hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

\_\_\_\_\_  
JYRKI TAPIO JAAKKOLA

STATE OF \_\_\_\_\_ )  
  ) ss:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me, a Notary Public in and for the State and County aforesaid, personally appeared \_\_\_\_\_ to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be his/her free act and deed.

\_\_\_\_\_  
Notary Public  
My commission expires:  
\_\_\_\_\_

FURTHERMORE, INTERNATIONAL PAPER COMPANY does hereby declare that it accepts the assignment in question.

INTERNATIONAL PAPER COMPANY

BY: Cynthia Bowdler  
Name: Cynthia Bowdler  
Title: Assistant Secretary  
Date: 11-16-2018

Ⓢ  
2/4/19