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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHENGALRAYAN KUDITHIPUDI	08/22/2018
JAEMO YANG	08/21/2018
YANXIN SHEN	08/21/2018
DONGMEI XU	08/21/2018
UJWALA WAREK	08/21/2018
JAMES STRICKLAND	08/22/2018
JESSE FREDERICK	08/21/2018

RECEIVING PARTY DATA

Name:	ALTRIA CLIENT SERVICES LLC
Street Address:	6601 WEST BROAD STREET
City:	RICHMOND
State/Country:	VIRGINIA
Postal Code:	23230

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16529365

CORRESPONDENCE DATA

Fax Number: (202)942-5999

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: 2029425000

Email: ipdocketing@arnoldporter.com, michelle.cole@arnoldporter.com

Correspondent Name: ARNOLD & PORTER KAYE SCHOLER LLC Address Line 1: 601 MASSACHUSETTS AVENUE, NW

Address Line 4: WASHINGTON, D.C. 20008

ATTORNEY DOCKET NUMBER:	P34633US01.0025633.00547
NAME OF SUBMITTER:	RYAN N. DOUGLAS
SIGNATURE:	/Ryan N. Douglas/
DATE SIGNED:	08/06/2019

PATENT REEL: 049967 FRAME: 0056

Total Attachments: 8 source=Parent_Assignment-P34633US01#page1.tif source=Parent_Assignment-P34633US01#page2.tif source=Parent_Assignment-P34633US01#page3.tif source=Parent_Assignment-P34633US01#page4.tif source=Parent_Assignment-P34633US01#page5.tif source=Parent_Assignment-P34633US01#page6.tif source=Parent_Assignment-P34633US01#page7.tif source=Parent_Assignment-P34633US01#page8.tif

PATENT REEL: 049967 FRAME: 0057

ASSIGNMENT

WHEREAS, I/we, the undersigned, have made certain invention or inventions which are disclosed in patent application(s) and/or provisional patent application(s) entitled:

OPTIMIZED TISSUE-PREFERRED PROMOTER AND USES THEREOF

identified as U.S. Provisional Application No. 62/713,819, filed August 2, 2018;

WHEREAS, Altria Client Services LLC, of 6601 West Broad Street, Richmond, VA 23230, a Corporation of the State of Virginia, is desirous of acquiring the entire right, title and interest in and to said invention or inventions and any and all patents to be obtained therefor;

NOW, THEREFORE, FOR GOOD AND VALUABLE CONSIDERATION, the receipt of which is hereby acknowledged, I/we do hereby sell, assign and transfer to said Altria Client Services LLC, its successors and assigns, the entire right, title and interest in and to said invention or inventions, in any form or embodiment thereof, and in and to said application(s); and in and to any and all applications filed in any country based thereon, including the right to file applications in countries other than the country of priority filing under the provisions of any international convention; also in and to any and all improvements on said invention or inventions now or hereafter made by me/us as employee(s), agent(s) or contractor(s) of said Altria Client Services LLC; also the entire right, title and interest in and to any and all patents, including reissues and extensions thereof, to be obtained in any country upon said invention, inventions or improvements; and any and all continuing applications, including divisional, continuation and continuation-in-part applications, substitute applications, and applications claiming benefit of an earlier filed provisional application, which may be filed upon said invention, inventions or improvements in any country; and

I/We hereby authorize and request the issuing authority to issue any and all patents on said application or applications to said Altria Client Services LLC, as assignee of the entire interest.

I/We further agree, without any payment by Altria Client Services LLC other than in reimbursement of reasonable expenses I/we may incur, to communicate to said Altria Client Services LLC, its representatives or agents, any facts relating to said invention, inventions or improvements, including evidence for purposes of interference, opposition or other legal proceedings, whenever requested; testify in any interference, opposition or other legal proceedings, whenever requested; and execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective.

PATENT REEL: 049967 FRAME: 0058

Chengalrayan Kudithipudi City and state or country of residence: Midlothian, VA SS. County of , 2018, before me personally appeared Chengalrayan Kudithipudi, known to me to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written. KIMBERLY ANN NUGENT **Notary Public** Notary Public Commonwealth of Virginia Registration No. 301738 My Commission Expires Mar 31, 2021 (seal)

IN TESTIMONY WHEREOF, I/we have hereto set our hands on the dates set after our

signatures.

My Commission expires 1

Jaemo Yang Name: City and state or country of residence: Richmond, VA State of SS. County of KIChini Of ____, 2018, before me personally appeared Jaemo Yang, known to me to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written. KIMBERLY AND NUGENT Motary Public Commonwealth of Virginia Registration No. 301738 My Commission Expires Mar 31, 2021 (seal)

IN TESTIMONY WHEREOF, I/we have hereto set our hands on the dates set after our

signatures.

My Commission expires 11WL/ 31, 30=

8-21-18 Signature: Yanxin Shen Name: City and state or country of residence: Glen Allen, VA State of VIVAIN A SS. County of RICHMONE On this \(\) day of \(\) \(\) \(\) , 2018, before me personally appeared Yanxin Shen, known to me to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written. KIMBERLY ANN NUGENT **Notary Public** Commonwealth of Virginia Registration No. 301738 My Commission Expires Mar 31, 2021 (seal)

IN TESTIMONY WHEREOF, I/we have hereto set our hands on the dates set after our

signatures.

My Commission expires

Signature: <u>Jongski VII</u> Date: <u>Aug. 219</u> , 2018
Name: <u>Dongmei Xu</u>
City and state or country of residence: Glen Allen, VA
State of
(seal) KIMBERLY ANN NUGENT Notary Public Commonwealth of Virginia Registration No. 301738 My Commission Expires Mar 31, 2021 Notary Public of Consular Officer
My Commission expires MWCh 31,0001

IN TESTIMONY WHEREOF, I/we have hereto set our hands on the dates set after our

signatures.

signatures. Ujwala Warek Name: City and state or country of residence: Chester, VA State of _ SS. County of Kichmon ____, 2018, before me personally appeared <u>Ujwala</u> Warek, known to me to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written. (seal) KIMBERLY ANN NUGENT **Notary Public** Commonwealth of Virginia Registration No. 301738 My Commission Expires Mar 31, 2021

IN TESTIMONY WHEREOF, I/we have hereto set our hands on the dates set after our

IN TESTIMONY WHEREOF, I/we have hereto set our hands on the dates set after or signatures.	ar
Signature: Date: 22 August 2018 Name: James Strickland	
City and state or country of residence: Richmond, VA	
State of $\frac{\sqrt{iY4inia}}{\text{Nond}}$) ss.	
On this O day of VIVIII, 2018, before me personally appeared <u>Jamestrickland</u> , known to me to be the person who executed the foregoing instrument ar acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof have hereto set my hand and official seal on the day last above written.	ıd
(scal) KIMBERLY ANN NUGENT Notary Public Commonwealth of Virginia Registration No. 301738 My Commission Expires Mar 31, 2021 Notary Public or Consular Officer	
My Commission expires NUM 31, 2021	

signatures. Signature: Name: Jesse Frederick City and state or country of residence: Richmond, VA __, 2018, before me personally appeared <u>Jesse</u> day of Frederick, known to me to be the person who executed the foregoing instrument and acknowledged that he/she executed the same as his/her free act and deed; in testimony whereof I have hereto set my hand and official seal on the day last above written. KIMBERLY ANN NUGENT Notary Public Commonwealth of Virginia (seal) Registration No. 301738

IN TESTIMONY WHEREOF, I/we have hereto set our hands on the dates set after our