503821030 05/11/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3867679

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Dongmei Xu	05/05/2016

RECEIVING PARTY DATA

Name:	U.S. SMOKELESS TOBACCO COMPANY LLC
Street Address:	6603 WEST BROAD STREET
City:	RICHMOND
State/Country:	VIRGINIA
Postal Code:	23230

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15136624

CORRESPONDENCE DATA

Fax Number: (877)769-7945

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: (612) 335-5070 **Email:** apsi@fr.com

Correspondent Name: M. ANGELA PARSONS
Address Line 1: FISH & RICHARDSON P.C.

Address Line 2: P.O.BOX 1022

Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

ATTORNEY DOCKET NUMBER:	20210-0455001
NAME OF SUBMITTER:	JILL A. WRIGHT
SIGNATURE:	/Jill A. Wright/
DATE SIGNED:	05/11/2016

Total Attachments: 2

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PATENT 503821030 REEL: 038544 FRAME: 0863

Attorney Docket No.: 20210-0455001

ASSIGNMENT

For valuable consideration, the receipt of which I acknowledge, and intending to be bound legally, I, <u>DONGMEI XU</u>, assign to <u>U.S. SMOKELESS TOBACCO COMPANY LLC</u>, a corporation formed under the laws of <u>Virginia</u> and having a principal place of business at <u>6603</u> <u>West Broad Street</u>, <u>Richmond</u>, <u>Virginia 23230</u>, and its successors, transferees, and assignees (collectively the "Assignee"), all of my right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names me as inventor, is titled "<u>TOBACCO NICOTINE DEMETHYLASE GENOMIC CLONE AND USES THEREOF</u>," and was filed in the United States Patent and Trademark Office on <u>April 22, 2016</u>, as application 15/136,624 (the "Application").

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

I authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in my name or in the Assignee's name.

I represent and warrant that I have the right and power to make this Assignment and that I have not made and will not make any other assignment that conflicts with this Assignment.

I will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

Assignment Page 1 of 2

Attorney Docket No.: 20210-0455001

Dongmei Xu	Date: 19, 3, 2016
Witnessed by: Signature: Lana Saku	6 Date: \$15.76
Print Name: Diagrae Shark;	2.1.1
Signature: 75 / 1/2 / Print Name: Length Lily	Date: <u> </u>

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PATENT REEL: 038544 FRAME: 0865