

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4671109

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Jesse Frederick	01/20/2017
Chengalrayan Kudithipudi	01/20/2017
Dongmei Xu	01/19/2017
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:	15727418
CORRESPONDENCE DATA	
Fax Number:	(877)769-7945
<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>	
Phone:	(612) 335-5070
Email:	apsi@fr.com
Correspondent Name:	M. A. 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:	20210-0420001
NAME OF SUBMITTER:	AMANDA PETERSEN
SIGNATURE:	/Amanda Petersen/
DATE SIGNED:	11/02/2017
Total Attachments: 4	
source=Assignment#page1.tif	
source=Assignment#page2.tif	
source=Assignment#page3.tif	

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, JESSE FREDERICK, CHENGALRAYAN KUDITHIPUDI, and DONGMEI XU, each individually assign to ALTRIA CLIENT SERVICES LLC, a corporation formed under the laws of Virginia and having a principal place of business at 6601 West Broad Street, Richmond, VA 23230, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "TOBACCO PLANTS HAVING INCREASED NITROGEN EFFICIENCY AND METHODS OF USING SUCH PLANTS," and was filed in the United States Patent and Trademark Office on October 7, 2016, as application 62/405,747 (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.

We 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 our names or in the Assignee's name.

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

We 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.



Jesse Frederick

Date: 1/20/17


Witnessed by:

Signature: Dianne S. Watkins Date: 1-20-17

Print Name: Dianne S. Watkins

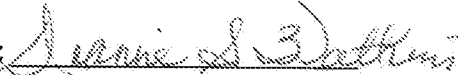
Signature: Kenneth L. Lilly Date: 1-20-2017

Print Name: Kenneth L. Lilly


Chengalrayan Kudithipudi

Date: 1/20/17

Witnessed by:

Signature:  Date: 1.20.17

Print Name: Dianne J. Watkins

Signature:  Date: 1-20-2017

Print Name: Kenneth L. Kelly

Dongmei Xu
Dongmei Xu

Date: Jan, 19th, 2017

Witnessed by:

Signature: Diane S Watkins Date: 1.19.17

Print Name: Diane S Watkins

Signature: Kenneth L Pilly Date: 1-19-2017

Print Name: Kenneth L Pilly

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: ALTRIA CLIENT SERVICES LLC

Signature: [Signature] Date: 23 Jan 2017

Name: Timothy G. Hofmeyer

Title: ASST. GENERAL COUNSEL

61425301.doc