

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Joshua D. Morton</td> <td>04/21/2011</td> </tr> <tr> <td>Steven D. Hume</td> <td>04/21/2011</td> </tr> <tr> <td>Barry Bratcher</td> <td>04/21/2011</td> </tr> </tbody> </table>		Name	Execution Date	Joshua D. Morton	04/21/2011	Steven D. Hume	04/21/2011	Barry Bratcher	04/21/2011
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Joshua D. Morton	04/21/2011								
Steven D. Hume	04/21/2011								
Barry Bratcher	04/21/2011								
RECEIVING PARTY DATA									
Name:	R.J. Reynolds Tobacco Company								
Street Address:	401 North Main Street								
City:	Winston-Salem								
State/Country:	NORTH CAROLINA								
Postal Code:	27101								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13072019</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13072019				
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Application Number:	13072019								
CORRESPONDENCE DATA									
Fax Number:	(919)755-6177								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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Email:	dgravius@wcsr.com								
Correspondent Name:	Ryan W. Cagle								
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Address Line 2:	P.O. Box 831								
Address Line 4:	Raleigh, NORTH CAROLINA 27601								
ATTORNEY DOCKET NUMBER:	R60999 1661.1 (0190.8)								
NAME OF SUBMITTER:	Ryan W. Cagle								
Total Attachments: 4 source=R60999_1661_1_Assignment-EXECUTED#page1.tif source=R60999_1661_1_Assignment-EXECUTED#page2.tif source=R60999_1661_1_Assignment-EXECUTED#page3.tif source=R60999_1661_1_Assignment-EXECUTED#page4.tif									

CH \$40.00 13072019

WORLDWIDE INVENTION ASSIGNMENT

WHEREAS, the undersigned (hereinafter referred to as "Assignor") has or may have invented certain inventions and improvements disclosed in the United States patent application entitled **"TOBACCO SEPARATION PROCESS FOR EXTRACTING TOBACCO-DERIVED MATERIALS, AND ASSOCIATED EXTRACTION SYSTEMS"** and designated as

- Application No. 13/072,019; filed March 25, 2011
- Application claims priority from Application No. 12/957,821, filed December 1, 2010, all applications listed above being hereinafter referred to as the "Application(s)";

WHEREAS, it is agreed that

R.J. REYNOLDS TOBACCO COMPANY
401 North Main Street
Winston-Salem, NC 27101

(hereinafter referred to as "Assignee"), is entitled to or is desirous of acquiring all right, title and interest related to the same;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor, by these presents, does sell, assign and transfer unto Assignee the full, exclusive and entire right, title and interest, worldwide: (i) in and to all inventions and improvements disclosed and described in the Application(s); (ii) in and to said Application(s) and any other United States national stage, provisional, non-provisional, divisional, continuation, continuation-in-part, or design patent applications based in whole or in part upon said inventions or improvements and/or claiming priority to said Application(s) (the "U.S. Applications"); (iii) in an to any Patent Cooperation Treaty applications based in whole or in part upon said inventions or improvements and/or claiming priority to said Application(s); (iv) in and to any and all applications for industrial property protection, including without limitation applications for patent, utility model, inventor's certificate, and design, filed or which are hereafter filed in countries outside the United States (the "Foreign Applications") and which describe in whole or in part said inventions and improvements, said Foreign Applications to be filed and issued in the name of Assignee or its designee insofar as permitted by applicable law; (v) in and to all patents or similar protective rights in the United States or elsewhere which may be granted on the U.S. Applications and Foreign Applications and all reissues, reexaminations, and extensions thereof, any and all such patents or other protective rights to issue in the name of Assignee and for the sole use and behoof of Assignee and its successors and assigns; and (vi) in and to the right to claim any applicable foreign or

domestic priority rights arising from or required for any of the aforementioned applications under the terms of any applicable conventions, treaties, statutes, or regulations.

AND, for the same consideration, Assignor agrees to (i) communicate to Assignee, its successors, legal representatives and assigns, any facts known to Assignor respecting said inventions and improvements or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions or improvements; (ii) sign or execute all lawful papers, applications, declarations, affidavits, assignments and rightful oaths that may be requested by Assignee during prosecution or enforcement of any rights related to the inventions and improvements; (iii) testify in any proceedings relating to said inventions or improvements or rights granted therefor; and (iv) generally do everything possible to aid Assignee and its successors, legal representatives and assigns, to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

Assignor covenants with Assignee, its successors, legal representatives and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned. Assignor further agrees that Assignee, its successors, legal representatives and assigns, may insert into this Assignment any further text necessary or desirable to define the Applications to which the Assignment pertains for purposes of recordation, and also agrees that the Assignment is effective at least as early as December 1, 2010 the earliest priority date of the Application(s).

21 APR 11
Date

Joshua D Morton
JOSHUA D. MORTON

State of Kentucky)
County of Darwin)

I, Melanie Ann Clark, a Notary Public for said County and State, do hereby certify that JOSHUA D. MORTON personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 21st day of April, 2011.

(Official Seal)

Melanie Ann Clark
Notary Public

My commission expires 3/14/12

21 APR 11
Date

Steven D. Hume
STEVEN D. HUME

State of Kentucky)

County of Daviess)

I, Melanie Ann Clark, a Notary Public for said County and State, do hereby certify that STEVEN D. HUME personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 21st day of April, 2011.

(Official Seal)

Melanie Ann Clark
Notary Public

My commission expires 3/14/12

4/21/11
Date

Barry Bratcher
BARRY BRATCHER

State of Kentucky)
County of Daviess)

I, Melanie Ann Clark, a Notary Public for said County and State, do hereby certify that BARRY BRATCHER personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 21st day of April, 2011.

(Official Seal)

Melanie Ann Clark
Notary Public

My commission expires 3/14/12

WCSR 4586632v1