

## PATENT ASSIGNMENT

Electronic Version v1.1  
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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>Paul Stuart Chapman</td> <td>06/12/2012</td> </tr> <tr> <td>Samuel Mark Debusk</td> <td>06/12/2012</td> </tr> <tr> <td>Grady Lance Dooly</td> <td>06/12/2012</td> </tr> <tr> <td>Anthony Richard Gerardi</td> <td>06/12/2012</td> </tr> <tr> <td>David Neil McClanahan</td> <td>06/12/2012</td> </tr> </tbody> </table>		Name	Execution Date	Paul Stuart Chapman	06/12/2012	Samuel Mark Debusk	06/12/2012	Grady Lance Dooly	06/12/2012	Anthony Richard Gerardi	06/12/2012	David Neil McClanahan	06/12/2012
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>R.J. Reynolds Tobacco Company</td> </tr> <tr> <td>Street Address:</td> <td>401 North Main Street</td> </tr> <tr> <td>City:</td> <td>Winston-Salem</td> </tr> <tr> <td>State/Country:</td> <td>NORTH CAROLINA</td> </tr> <tr> <td>Postal Code:</td> <td>27101-3804</td> </tr> </table>		Name:	R.J. Reynolds Tobacco Company	Street Address:	401 North Main Street	City:	Winston-Salem	State/Country:	NORTH CAROLINA	Postal Code:	27101-3804		
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CORRESPONDENCE DATA													
<p>Fax Number: 7043314955          Phone: 704-331-4900          Email: shrogers@wcsr.com  <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Womble Carlyle Sandridge &amp; Rice, LLP          Address Line 1: 301 S. College St., Ste. 3000          Address Line 2: Attn: Chris Orders          Address Line 4: Charlotte, NORTH CAROLINA 28202</p>													
ATTORNEY DOCKET NUMBER:	60999.0323.4 (2550US.1)												
NAME OF SUBMITTER:	Christopher H. Orders, Reg. No. 57,151												

PATENT

**Total Attachments: 7**

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### 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 "**METHOD FOR PRODUCING MICROCRYSTALLINE CELLULOSE FROM TOBACCO AND RELATED TOBACCO PRODUCT**" and designated as

- ☒ Application No. 13/451,032; filed April 19, 2012
- ☐ Application claims priority from Application No. \_\_\_\_\_, filed \_\_\_\_\_, 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 27101-3804

(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 and 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 April 19, 2012, the earliest priority date of the Application(s).

Date 06-12-2012

Paul Stuart Chapman  
Paul Stuart Chapman

State of North Carolina  
County of Forsyth

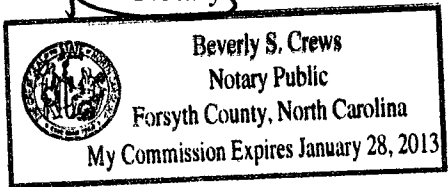
I, Beverly S Crews, a Notary Public for said County and State, do hereby certify that **Paul Stuart Chapman** personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 12 day of June, 2012.

(Official Seal)

My commission expires 1/28/2013

Beverly S Crews  
Notary Public



6-12-12  
Date

Samuel Mark Debusk  
Samuel Mark Debusk

State of North Carolina

County of Forsyth

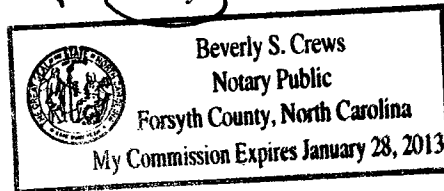
I, Beverly S. Crews, a Notary Public for said County and State, do hereby certify that **Samuel Mark Debusk** personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 12 day of June, 2012.

(Official Seal)

My commission expires 1/28/2013

Beverly S. Crews  
Notary Public



6/12/2012  
Date

Grady Lance Dooly  
Grady Lance Dooly

State of North Carolina

County of Forsyth

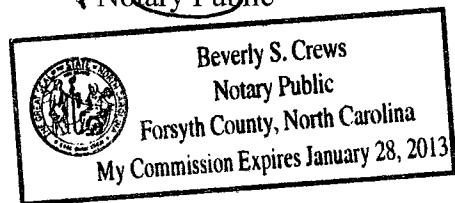
I, Beverly S Crews, a Notary Public for said County and State, do hereby certify that **Grady Lance Dooly** personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 12 day of June, 2012.

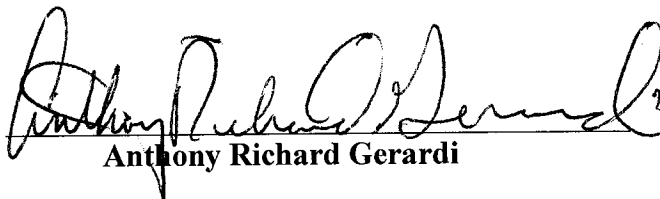
(Official Seal)

My commission expires 1/28/2013

Beverly S Crews  
Notary Public



Date 6/12/2012

  
Anthony Richard Gerardi

State of North Carolina

County of Forsyth

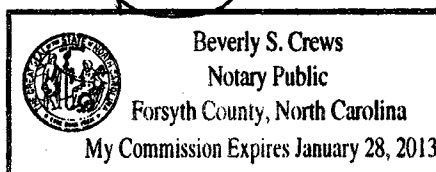
I, Beverly S Crews, a Notary Public for said County and State, do hereby certify that **Anthony Richard Gerardi** personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 12 day of June, 2012.

(Official Seal)

My commission expires 1/28/2013

  
Notary Public





June 12, 2012

Date

David Neil McClanahan

David Neil McClanahan

State of North Carolina

County of Forsyth

I, Beverly S Crews, a Notary Public for said County and State, do hereby certify that **David Neil McClanahan** personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 12 day of June, 2012.

(Official Seal)

My commission expires

1/28/2013

Beverly S Crews  
Notary Public

