

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Andries D. Sebastian</td> <td>12/12/2011</td> </tr> <tr> <td>Huamin Gan</td> <td>11/17/2011</td> </tr> <tr> <td>Kenneth C. Deloach</td> <td>11/16/2011</td> </tr> <tr> <td>Richard L. Sizemore</td> <td>11/17/2011</td> </tr> <tr> <td>Dean M. Vick</td> <td>11/17/2011</td> </tr> </tbody> </table>		Name	Execution Date	Andries D. Sebastian	12/12/2011	Huamin Gan	11/17/2011	Kenneth C. Deloach	11/16/2011	Richard L. Sizemore	11/17/2011	Dean M. Vick	11/17/2011
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">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: (704)331-4955</p> <p>Phone: (704) 331-4900</p> <p>Email: shrogers@wcsr.com</p> <p><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 & Rice, LLP</p> <p>Address Line 1: 301 South College St., Ste. 3500</p> <p>Address Line 4: Charlotte, NORTH CAROLINA 28202</p>													
ATTORNEY DOCKET NUMBER:	R60999 2410US.1 (0277.7)												
NAME OF SUBMITTER:	Christopher H. Orders, Reg. No. 57,151												

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PATENT
REEL: 027385 FRAME: 0372

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 "**MIXED FIBER PRODUCT FOR USE IN THE MANUFACTURE OF CIGARETTE FILTER ELEMENTS AND RELATED METHODS, SYSTEMS AND APPARATUSES**" and designated as

- ☒ Application No. 13/241,399; filed September 23, 2011
- ☐ 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 September 23, 2011 the earliest priority date of the Application(s).

12/12/11
Date

Andries D. Sebastian
Andries D. Sebastian

State of North Carolina
County of Forsyth

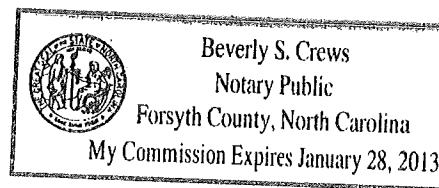
I, Beverly S. Crews, a Notary Public for said County and State, do hereby certify that Andries D. Sebastian personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 12 day of December, 2011.

(Official Seal)

My commission expires January 28, 2013

Beverly S. Crews
Notary Public



Nov. 17, 2011
Date

Huamin Gan
Huamin Gan

State of North Carolina)
County of Forsyth)

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

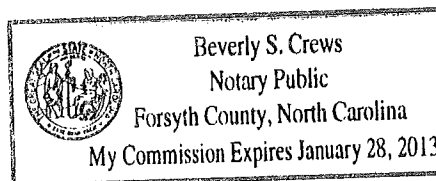
Witness my hand and official seal, this the 17 day of November, 2011.

(Official Seal)

My commission expires

January 28, 2013

Beverly S. Crews
Notary Public



11/16/2011
Date

Kenneth C. Deloach
Kenneth C. Deloach

State of North Carolina

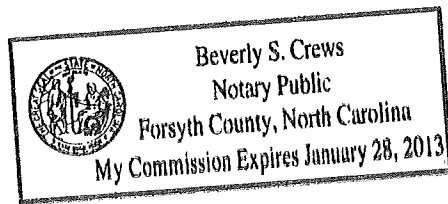
County of Forsyth

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

Witness my hand and official seal, this the 16 day of November, 2011.

(Official Seal)

Beverly S. Crews
Notary Public
My commission expires 1/28/2013



11-17-11
Date

Richard L. Sizemore
Richard L. Sizemore

State of North Carolina
County of Forsyth

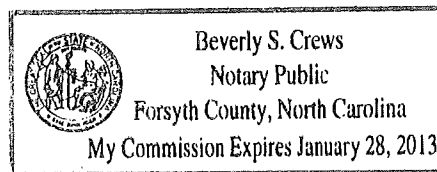
I, Beverly S. Crews, a Notary Public for said County and State, do hereby certify that Richard L. Sizemore personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 17 day of November, 2011.

(Official Seal)

Beverly S. Crews
Notary Public

My commission expires January 28, 2013



Date 11-17-2011

Dean M. Vick
Dean M. Vick

State of North Carolina)

County of Forsyth)

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

Witness my hand and official seal, this the 17 day of November, 2011

(Official Seal)

Beverly S. Crews
Notary Public

My commission expires January 28, 2013

