

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>John Larkin Nelson</td><td>01/09/2009</td></tr><tr><td>Travis Eugene Howard</td><td>02/05/2009</td></tr><tr><td>Vernon Brent Barnes</td><td>01/13/2009</td></tr></tbody></table>		Name	Execution Date	John Larkin Nelson	01/09/2009	Travis Eugene Howard	02/05/2009	Vernon Brent Barnes	01/13/2009
Name	Execution Date								
John Larkin Nelson	01/09/2009								
Travis Eugene Howard	02/05/2009								
Vernon Brent Barnes	01/13/2009								
RECEIVING PARTY DATA									
Name:	R.J. Reynolds Tobacco Company								
Street Address:	Bowman Gray Technical Center								
Internal Address:	Post Office Box 1487, 950 Reynolds Boulevard								
City:	Winston-Salem								
State/Country:	NORTH CAROLINA								
Postal Code:	27102								
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>12259838</td></tr></tbody></table>		Property Type	Number	Application Number:	12259838				
Property Type	Number								
Application Number:	12259838								
CORRESPONDENCE DATA									
Fax Number:	(919)862-2260								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	919-862-2200								
Email:	evelyn.casey@alston.com								
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Address Line 2:	Suite 600								
Address Line 4:	Raleigh, NORTH CAROLINA 27604-1500								
ATTORNEY DOCKET NUMBER:	030627/346591								
NAME OF SUBMITTER:	Scott C. Mayhew								
Total Attachments: 4									

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## ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

R. J. Reynolds Tobacco Company  
Bowman Gray Technical Center  
Post Office Box 1487  
950 Reynolds Boulevard  
Winston-Salem, North Carolina 27102

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in **"APPARATUS FOR ENHANCING A FILTER COMPONENT OF A SMOKING ARTICLE, AND ASSOCIATED METHOD"**

as set forth in this United States Patent Application

- ☐ executed concurrently herewith
- ☐ executed on
- ☒ Application No. 12/259,838; filed October 28, 2008
- ☐ Application claims priority from Application No. , filed , all applications listed above being hereinafter referred to as the "application(s)";

(We hereby authorize and request the Assignee and its attorney (Alston & Bird LLP) to insert above the application number and filing date of said application when known.)

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all

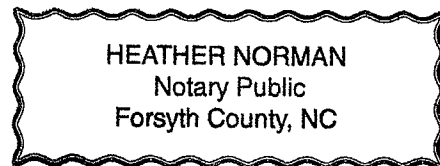
facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

1/9/09  
Date

John Larkin Nelson  
John Larkin Nelson

State of North Carolina  
County of Forsyth



I, Heather Norman, a Notary Public for said County and State, do hereby certify that **John Larkin Nelson** personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 9 day of January, ~~2008~~ 2009  
(Official Seal)

My commission expires 3/24/2011

Heather Norman  
Notary Public

Feb. 5, 2009

Date

Travis Eugene Howard

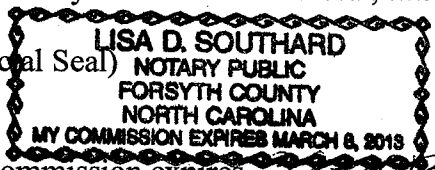
Travis Eugene Howard

State of NC)

County of Forsyth)

I, Lisa D. Southard, a Notary Public for said County and State, do hereby certify that **Travis Eugene Howard** personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 5 day of February, 2009.

(Official Seal)   
My commission expires 3-6-2013

Lisa D. Southard

Notary Public

1/13/09  
Date

Vernon Brent Barnes  
Vernon Brent Barnes

State of North Carolina

County of Forsyth

I, Heather Norman, a Notary Public for said County and State, do hereby certify that **Vernon Brent Barnes** personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 13 day of January, 2008. 2009

(Official Seal)

Heather Norman  
Notary Public

My commission expires 3-24-2011

Attorney Docket No. 030627/346591

