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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7847455

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------------|----------------|
| JOHN HOWARD ROBINSON | 11/09/2006 |
| DAVID WILLIAM GRIFFITH JR. | 11/09/2006 |
| BILLY TYRONE CONNER | 11/09/2006 |
| EVON LLEWELLYN CROOKS | 11/09/2006 |
| DEMPSEY BAILEY BREWER JR. | 11/09/2006 |

RECEIVING PARTY DATA

| | |
|--------------------------|--------------------------------|
| Name: | R. J. REYNOLDS TOBACCO COMPANY |
| Street Address: | 950 REYNOLDS BOULEVARD |
| Internal Address: | POST OFFICE BOX 1487 |
| City: | WINSTON-SALEM |
| State/Country: | NORTH CAROLINA |
| Postal Code: | 27102 |

PROPERTY NUMBERS Total: 7

| Property Type | Number |
|---------------------|----------|
| Application Number: | 17739903 |
| Application Number: | 16271443 |
| Application Number: | 15879268 |
| Application Number: | 15286087 |
| Application Number: | 14527287 |
| Application Number: | 13297983 |
| Application Number: | 12763890 |

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 8572873100

Email: louisastansbury@wbd-us.com

Correspondent Name: WOMBLE BOND DICKINSON (US) LLP

Address Line 1: 470 ATLANTIC AVE.

Address Line 2: SUITE 600

PATENT

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|---|-----------------------------|
| Address Line 4: | BOSTON, MASSACHUSETTS 02210 |
| ATTORNEY DOCKET NUMBER: | R60999 1400US |
| NAME OF SUBMITTER: | JOHN V. FORCIER |
| SIGNATURE: | /john v. forcier/ |
| DATE SIGNED: | 03/15/2023 |
| Total Attachments: 4 source=2023-03-15_Parent Assignment_Inventors to RJR_R60999 1400US#page1.tif source=2023-03-15_Parent Assignment_Inventors to RJR_R60999 1400US#page2.tif source=2023-03-15_Parent Assignment_Inventors to RJR_R60999 1400US#page3.tif source=2023-03-15_Parent Assignment_Inventors to RJR_R60999 1400US#page4.tif | |

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 **"TOBACCO-CONTAINING SMOKING ARTICLE"**

as set forth in this United States Patent Application

- executed concurrently herewith
- executed on
- Application No. 11/550,634; filed October 18, 2006
- 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.

11/09/06
Date

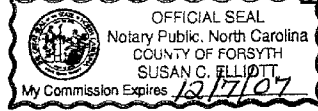
John Howard Robinson
John Howard Robinson

State of North Carolina)
County of Forsyth)

I, Susan C. Elliott, a Notary Public for said County and State, do hereby certify that John Howard Robinson personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 9th day of November, 2006.

(Official Seal)



Susan C. Elliott
Notary Public

My commission expires: December 7, 2007

11/09/2006
Date

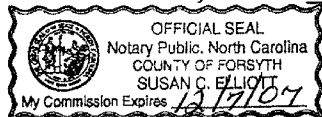
David William Griffith, Jr.
David William Griffith, Jr.

State of North Carolina)
County of Forsyth)

I, Susan C. Elliott, a Notary Public for said County and State, do hereby certify that David William Griffith, Jr. personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 9th day of November, 2006.

(Official Seal)



Susan C. Elliott
Notary Public

My commission expires: December 7, 2007

11/09/2006
Date

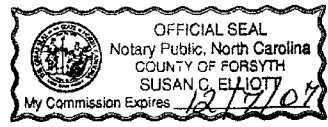
Billy Tyrone Conner
Billy Tyrone Conner

State of North Carolina)
)
County of Forsyth)

I, Susan C. ELLIOTT, a Notary Public for said County and State, do hereby certify that Billy Tyrone Conner personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 9th day of November, 2006.

(Official Seal)



Susan C. Elliott
Notary Public

My commission expires: December 7, 2007

11/9/2006
Date

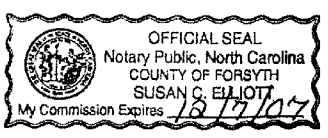
Evon Llewellyn Crooks
Evon Llewellyn Crooks

State of North Carolina)
)
County of Forsyth)

I, Susan C. ELLIOTT, a Notary Public for said County and State, do hereby certify that Evon Llewellyn Crooks personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 9th day of November, 2006.

(Official Seal)



Susan C. Elliott
Notary Public

My commission expires: December 7, 2007

11/09/2006
Date

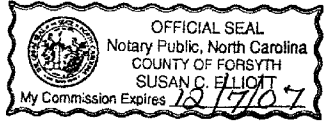
Dempsey Bailey Brewer
Dempsey Bailey Brewer, Jr.

State of North Carolina)
)
County of Forsyth)

I, Susan C. ELLIOTT, a Notary Public for said County and State, do hereby certify that Dempsey Bailey Brewer, Jr. personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 9th day of November, 2006.

(Official Seal)



Susan C. Elliott
Notary Public

My commission expires: December 7, 2007

Attorney Docket No. 030627/316313