

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

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>Munmaya K. Mishra</td><td>01/19/2010</td></tr><tr><td>Shengsheng Liu</td><td>06/12/2010</td></tr><tr><td>William R. Sweeney</td><td>01/08/2010</td></tr><tr><td>Feng Gao</td><td>01/14/2010</td></tr><tr><td>Tapashi Sengupta</td><td>05/25/2010</td></tr></tbody></table>		Name	Execution Date	Munmaya K. Mishra	01/19/2010	Shengsheng Liu	06/12/2010	William R. Sweeney	01/08/2010	Feng Gao	01/14/2010	Tapashi Sengupta	05/25/2010
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RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>Philip Morris USA Inc.</td></tr><tr><td>Street Address:</td><td>6601 West Broad Street</td></tr><tr><td>City:</td><td>Richmond</td></tr><tr><td>State/Country:</td><td>VIRGINIA</td></tr><tr><td>Postal Code:</td><td>23230</td></tr></table>		Name:	Philip Morris USA Inc.	Street Address:	6601 West Broad Street	City:	Richmond	State/Country:	VIRGINIA	Postal Code:	23230		
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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>12576986</td></tr></tbody></table>		Property Type	Number	Application Number:	12576986								
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Application Number:	12576986												
CORRESPONDENCE DATA													
Fax Number: (703)836-2021 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone: 703-836-6620													
Email: laura.blair@bipc.com													
Correspondent Name: BUCHANAN INGERSOLL & ROONEY													
Address Line 1: 1737 King Street													
Address Line 2: Suite 500													
Address Line 4: Alexandria, VIRGINIA 22314													
ATTORNEY DOCKET NUMBER:	1021238-001017												
NAME OF SUBMITTER:	Peter K. Skiff												

OP \$40.00 12576986

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PATENT
REEL: 024845 FRAME: 0485

Total Attachments: 11

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ASSIGNMENT
(JOINT)

THIS ASSIGNMENT, by 1) Munmaya K. Mishra, 2) Shengsheng Liu, 3) William R. Sweeney, 4) Feng Gao and 5) Tapashi Sengupta (hereinafter referred to as "the Assignors"), residing at 1) 1631 Sabot Creek Drive, Manakin Sabot, VA 23103, 2) 11812 Coolwind Lane, Richmond, VA 23233, 3) 8242 Marwood Drive, Richmond, VA 23235, 4) 3058 Lancers Boulevard, Richmond, VA 23224 and 5) 4975 Essington Lane, Barrington, IL 60010, respectively, witnesseth:

WHEREAS, the Assignors have made certain new and useful inventions in MOIST SMOKELESS TOBACCO PRODUCT WITH TEXTURED COATING set forth in an application for Letters Patent of the United States of America, [] having an oath or declaration executed on even date herewith; [X] bearing Serial No. 12/576,986, and filed on October 9, 2009; and

WHEREAS, PHILIP MORRIS USA INC., a corporation duly organized under and pursuant to the laws of the State of Virginia and having an office and place of business at 6601 West Broad Street, Richmond, VA 23230, is desirous of acquiring the entire right, title, and interest in and to the inventions for the United States and the application for Letters Patent of the United States, and in and to any United States Letters Patent or Patents, to be obtained therefor and thereon; and

WHEREAS, PHILIP MORRIS PRODUCTS S.A. (formerly known as Fabriques de Tabac Reunies S.A.), a corporation organized and existing under the laws of Switzerland and having an office and place of business at Quai Jeanrenaud 3, CH-2000, Neuchâtel, Switzerland, is desirous of acquiring the entire right, title, and interest in and to the inventions for countries foreign to the United States, and in and to any foreign patent applications, and in and to any foreign Letters Patent or Patents to be obtained therefor and thereon; and

NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) to each of us paid and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged:

ASSIGNMENT OF
UNITED STATES PATENT RIGHTS

We do hereby sell, assign and transfer unto PHILIP MORRIS USA INC., its successors, assigns and legal representatives, all right, title, and interest in and to the inventions, for the United States, and in and to the United States patent application, including any continuations and divisions thereof, and any substitute applications therefor and any United States patents which may issue thereon and any reissues and extensions of the same; and we hereby authorize and request the Commissioner of Patents to grant and issue any and all patents on the inventions in the United States to PHILIP MORRIS USA INC. as the assignee thereof.

ASSIGNMENT OF FOREIGN PATENT RIGHTS

Further in view of the consideration hereinabove referred to, we do hereby sell, assign, and transfer unto PHILIP MORRIS PRODUCTS S.A., its successors, assigns and legal representatives, all right, title and interest in and to the inventions for all countries foreign to the United States, including the right to claim priority under the International Convention based on the United States patent application, and in and to any foreign patent application, including renewals, revivals, continuations and divisions thereof, and any substitute applications therefor, and any foreign patents which may issue thereon, and any reissues and extensions of the same; and we hereby authorize and request competent authorities to grant and issue any and all patents on the inventions in any foreign country to PHILIP MORRIS PRODUCTS S.A. as the assignee thereof.

We further agree to execute upon request of the assignee PHILIP MORRIS USA INC. such additional documents, if any, as are necessary and proper to secure patent protection on the inventions in the United States, and to execute upon request of assignee PHILIP MORRIS PRODUCTS S.A. such additional documents, if any, as are necessary and proper to secure patent protection on the inventions in countries foreign to the United States, and to otherwise give full effect to and perfect the rights of the assignee PHILIP MORRIS USA INC. in the United States and of assignee PHILIP MORRIS PRODUCTS S.A. in countries foreign to the United States.

AND for the same consideration, the Assignors hereby covenant and agree to and with the assignees, their successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions and any and all applications for Letters Patent above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the assignees, their successors, legal representatives, and assigns, that the Assignors will, whenever counsel of the assignees, or counsel of their successors, legal representatives, and assigns, shall advise that any proceeding in connection with the inventions or any and all applications for Letters Patent, or any proceeding in connection with Letters Patent for the inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation, or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent for the inventions, without charge to the assignees, their successors, legal representatives, and assigns, but at the cost and expense of the assignees, their successors, legal representatives, and assigns;

IN TESTIMONY THEREOF, we have hereunto signed our names on the dates hereinafter indicated:

Date 1/19/10 Name of Assignor Munmaya K. Mishra

STATE OF VIRGINIA)
: ss
CITY OF RICHMOND)

On this 19 day of January, 2009, appeared before me in person the above-named individual, and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

My Commission Expires: 11/30/2012
(Notarial Seal) Danielle Bast Durham
Notary Public
Commission No. 337303

[Signature]
NOTARY PUBLIC

Date _____ Name of Assignor Shengsheng Liu

STATE OF VIRGINIA)
: ss
CITY OF RICHMOND)

On this _____ day of _____, 2009, appeared before me in person the above-named individual, and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

My Commission Expires:

(Notarial Seal)

NOTARY PUBLIC

IN TESTIMONY THEREOF, we have hereunto signed our names on the dates hereinafter indicated:

Date _____ Name of Assignor Munmaya K. Mishra

STATE OF VIRGINIA)
: ss
CITY OF RICHMOND)

On this _____ day of _____, 2009, appeared before me in person the above-named individual, and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

My Commission Expires:

NOTARY PUBLIC

(Notarial Seal)

Date 6/12/2010 Name of Assignor Shengsheng Liu
Shengsheng Liu

STATE OF VIRGINIA)
: ss
CITY OF RICHMOND)

On this 12th day of JUNE, 2010, appeared before me in person the above-named individual, and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

My Commission Expires:

2/29/2012

NOTARY PUBLIC

(Notarial Seal)

Date 1/8/10

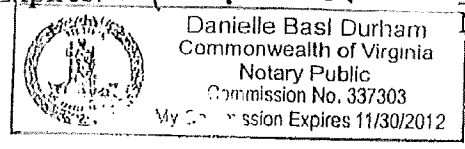
Name of Assignor WRS
William R. Sweeney

STATE OF VIRGINIA)
: ss
CITY OF RICHMOND)

On this 8 day of January, ¹⁰~~2009~~, appeared before me in person the above-named individual, and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

My Commission Expires: 11/30/2012 Danielle B. Durham
NOTARY PUBLIC

(Notarial Seal)



Date 1-14-2010

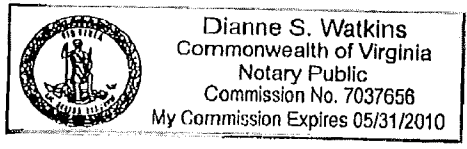
Name of Assignor Feng Gao
Feng Gao

STATE OF VIRGINIA)
: ss
CITY OF RICHMOND)

On this 14 day of January, ¹⁰~~2009~~, appeared before me in person the above-named individual, and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

My Commission Expires: Dianne S. Watkins
NOTARY PUBLIC

(Notarial Seal)



Date _____

Name of Assignor _____

Tapashi Sengupta

STATE OF VIRGINIA)

: ss

CITY OF RICHMOND)

On this _____ day of _____, 2009, appeared before me in person the above-named individual, and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

My Commission Expires:

NOTARY PUBLIC

(Notarial Seal)

ASSIGNMENT
(JOINT)

THIS ASSIGNMENT, by 1) Munmaya K. Mishra, 2) Shengsheng Liu, 3) William R. Sweeney, 4) Feng Gao and 5) Tapashi Sengupta (hereinafter referred to as "the Assignors"), residing at 1) 1631 Sabot Creek Drive, Manakin Sabot, VA 23103, 2) 11812 Coolwind Lane, Richmond, VA 23233, 3) 8242 Marwood Drive, Richmond, VA 23235, 4) 3058 Lancers Boulevard, Richmond, VA 23224 and 5) 4975 Essington Lane, Barrington, IL 60010, respectively, witnesseth:

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NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) to each of us paid and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged:

ASSIGNMENT OF
UNITED STATES PATENT RIGHTS

We do hereby sell, assign and transfer unto PHILIP MORRIS USA INC., its successors, assigns and legal representatives, all right, title, and interest in and to the inventions, for the United States, and in and to the United States patent application, including any continuations and divisions thereof, and any substitute applications therefor and any United States patents which may issue thereon and any reissues and extensions of the same; and we hereby authorize and request the Commissioner of Patents to grant and issue any and all patents on the inventions in the United States to PHILIP MORRIS USA INC. as the assignee thereof.

ASSIGNMENT OF
FOREIGN PATENT RIGHTS

Further in view of the consideration hereinabove referred to, we do hereby sell, assign, and transfer unto PHILIP MORRIS PRODUCTS S.A., its successors, assigns and legal representatives, all right, title and interest in and to the inventions for all countries foreign to the United States, including the right to claim priority under the International Convention based on the United States patent application, and in and to any foreign patent application, including renewals, revivals, continuations and divisions thereof, and any substitute applications therefor, and any foreign patents which may issue thereon, and any reissues and extensions of the same; and we hereby authorize and request competent authorities to grant and issue any and all patents on the inventions in any foreign country to PHILIP MORRIS PRODUCTS S.A. as the assignee thereof.

We further agree to execute upon request of the assignee PHILIP MORRIS USA INC. such additional documents, if any, as are necessary and proper to secure patent protection on the inventions in the United States, and to execute upon request of assignee PHILIP MORRIS PRODUCTS S.A. such additional documents, if any, as are necessary and proper to secure patent protection on the inventions in countries foreign to the United States, and to otherwise give full effect to and perfect the rights of the assignee PHILIP MORRIS USA INC. in the United States and of assignee PHILIP MORRIS PRODUCTS S.A. in countries foreign to the United States.

AND for the same consideration, the Assignors hereby covenant and agree to and with the assignees, their successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions and any and all applications for Letters Patent above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the assignees, their successors, legal representatives, and assigns, that the Assignors will, whenever counsel of the assignees, or counsel of their successors, legal representatives, and assigns, shall advise that any proceeding in connection with the inventions or any and all applications for Letters Patent, or any proceeding in connection with Letters Patent for the inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation, or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent for the inventions, without charge to the assignees, their successors, legal representatives, and assigns, but at the cost and expense of the assignees, their successors, legal representatives, and assigns;

IN TESTIMONY THEREOF, we have hereunto signed our names on the dates hereinafter indicated:

Date _____ Name of Assignor Munmaya K. Mishra

STATE OF VIRGINIA)
: ss
CITY OF RICHMOND)

On this _____ day of _____, 2009, appeared before me in person the above-named individual, and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

My Commission Expires: _____
NOTARY PUBLIC
(Notarial Seal)

Date _____ Name of Assignor Shengsheng Liu

STATE OF VIRGINIA)
: ss
CITY OF RICHMOND)

On this _____ day of _____, 2009, appeared before me in person the above-named individual, and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

My Commission Expires: _____
NOTARY PUBLIC
(Notarial Seal)

Date _____

Name of Assignor _____

William R. Sweeney

STATE OF VIRGINIA)

: ss

CITY OF RICHMOND)

On this _____ day of _____, 2009, appeared before me in person the above-named individual, and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

My Commission Expires:

NOTARY PUBLIC

(Notarial Seal)

Date _____

Name of Assignor _____

Feng Gao

STATE OF VIRGINIA)

: ss

CITY OF RICHMOND)

On this _____ day of _____, 2009, appeared before me in person the above-named individual, and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

My Commission Expires:

NOTARY PUBLIC

(Notarial Seal)

Date

5/25/10

Name of Assignor

Tapashi Sengupta
Tapashi Sengupta

Texas
STATE OF VIRGINIA)
Plano : ss
CITY OF RICHMOND)

On this 25th day of May, 2010, appeared before me in person the above-named individual, and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

My Commission Expires: 7/15/2010

Stacy M. Reyna
NOTARY PUBLIC

(Notarial Seal)

