PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FIROOZ RASOULI	09/15/2014
WEI-JUN ZHANG	09/12/2014
JON REGRUT	10/09/2014
JAMES PFLUEGER	10/22/2014

RECEIVING PARTY DATA

Name:	PHILIP MORRIS USA INC.
Street Address:	6601 WEST BROAD STREET
City:	RICHMOND
State/Country:	VIRGINIA
Postal Code:	23230

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12943577

CORRESPONDENCE DATA

Fax Number: (703)836-2021

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: 703-836-6620

Email: LAURA.BLAIR@BIPC.COM

Correspondent Name: BUCHANAN INGERSOLL & ROONEY PC

1737 KING STREET Address Line 1:

Address Line 2: SUITE 500

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	1021238-000844
NAME OF SUBMITTER:	PETER K. SKIFF
SIGNATURE:	/Peter K. Skiff/
DATE SIGNED:	10/28/2014

Total Attachments: 6

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> **PATENT REEL: 034051 FRAME: 0058** 503037330



PATENT REEL: 034051 FRAME: 0059

PM2334 UTIL Buchanan Ingersoll & Rooney PC Attorney Docket Nos. 1021238-000844

ASSIGNMENT (JOINT)

THIS ASSIGNMENT, by (1) Firooz Rasouli, 2) Wei-Jun Zhang, 3) Jon Regrut and 4) James Pflueger (hereinafter referred to as "the Assignors"), residing at (1) 1807 Gildenborough Court, Midlothian, VA 23113, 2) 2537 Lochness Road, Richmond, VA 23235, 3) 702 S. Nansemond Street, Richmond, VA 23221 and 4) 1708 Swift Circle #201, Midlothian, VA 23114, respectively, witnesseth:

WHEREAS, the Assignors have made certain new and useful inventions in HYDROSOL BASED FLAVOR DELIVERY DEVICE 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. 12/943,577, and filed on November 10, 2010; 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 had indicated:	ive hereunto signed	our names on the dates hereinafter
marcarca:		r ll
Date 9/15/14	Name of Assigno	r Firooz Rasouli
STATE OF VIRGINIA) : ss		
CITY OF RICHMOND)		
the above-named individual, and ack signed, sealed and delivered the abouses and purposes therein set forth. My Commission Expires:	mowledged the above instrument as his MY MY MISSION mowledged the above	
73.	MBER 84985 THOF Name of Assignor	P
	· ·	Wei-Jun Zhang
STATE OF VIRGINIA) : ss CITY OF RICHMOND)		
•	nowledged the above instrument as his	2011, appeared before me in person ve to be his signature and that he voluntary act and deed, and for the
My Commission Expires:	SAMSANNA	
(Notarial Seal)	МО	TARY PUBLIC

Date	Name o	of Assignor
		Firooz Rasouli
STATE OF VIRO	•	
CITY OF RICHM	: ss MOND)	
On this the above-named signed, sealed and uses and purposes	I delivered the above instru	, 2011, appeared before me in perso ged the above to be his signature and that he ment as his voluntary act and deed, and for the
My Commission	Expires:	
(Notarial Seal)		NOTARY PUBLIC
the above-named	TOND) The day of Septemble individual, and acknowledged the above instrured the above instrured.	2015, appeared before me in personed the above to be his signature and that he nent as his voluntary act and deed, and for the
My Commission I	Expires:	
(Notarial Seal)	CHPHISTINAL HENRY Many Public, State of Ohio Hay Commission Copies 08-15-20	NOTARY PUBLIC
POSTONIA PROPERTY OF STREET	A STATE OF THE STA	

Date 10/9/2014 Name of Assignor Jon Regrut
STATE OF VIRGINIA)
CITY OF RICHMOND) On this 1th day of 1th day of 1th day of 2th depth day of 2th day of 2th depth day of 2th d
Date Name of Assignor
CITY OF RICHMOND)
On this
My Commission Expires: NOTARY PUBLIC
(Notarial Seal)
problem. The second se

Date	Name of Assignor		
		Jon Regrut	
STATE OF VIRGINIA)			
: ss CITY OF RICHMOND)			
On this day of the above-named individual, and ac signed, sealed and delivered the abo uses and purposes therein set forth.	ove instrument as his ve	011, appeared before me in to be his signature and tha oluntary act and deed, and	n person t he for the
My Commission Expires:			
(Notarial Seal)	NOTA	ARY PUBLIC	
Date 01. 22, 2014	Name of Assignor	James Mueger	e transport of the contract of
BRITISH COLUMBIA, CANADA	.)		
: ss CITY OF VANCOUVER)			
On this day of the above-named individual, and ac signed, sealed and delivered the abouses and purposes therein set forth.	knowledged the above	to be his signature and tha	t he
My Commission Expires:	MOT	ne Casure	<u>L</u> .
(Notarial Seal)	43	TRU I ODLIE
		ne Capwell, Notary Public 2356 West 4th Avenue Fanceuver, BC V6K 1P1 Tel: 604-221-3848	
	*	ermonent Commission	

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RECORDED: 10/28/2014