

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3439379

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DANA PAUL GRUENBACHER	07/10/2015
STEPHAN GARY BUSH	07/13/2015
DAVID S HUNT	06/16/2015
JOSEPH EDWARD SCHEFFELIN	06/16/2015
STEVEN L WEBB	06/16/2015
DOMENICO GIUSTI	06/12/2015
TECK KHIM NEO	06/17/2015
SIMON DODD	06/12/2015
STMICROELECTRONICS INTERNATIONAL N.V.	07/10/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	The Procter & Gamble Company
<b>Street Address:</b>	1 Procter & Gamble Plaza
<b>Internal Address:</b>	Attention: Chief Patent Counsel
<b>City:</b>	Cincinnati
<b>State/Country:</b>	OHIO
<b>Postal Code:</b>	45202
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14310311
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(513)945-6868
<i>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.</i>	
<b>Phone:</b>	513-983-7592
<b>Email:</b>	mittchell.em@pg.com
<b>Correspondent Name:</b>	THE PROCTER & GAMBLE COMPANY
<b>Address Line 1:</b>	ONE PROCTER & GAMBLE PLAZA
<b>Address Line 2:</b>	CENTRAL BLDG-CENTRAL DOCKETING C8-246
<b>Address Line 4:</b>	CINCINNATI, OHIO 45202
<b>ATTORNEY DOCKET NUMBER:</b>	13414

PATENT

<b>NAME OF SUBMITTER:</b>	AMY AHN-ROLL
<b>SIGNATURE:</b>	/Amy Ahn-Roll/
<b>DATE SIGNED:</b>	07/15/2015
<b>Total Attachments: 24</b> source=13414_ASGN_all#page1.tif source=13414_ASGN_all#page2.tif source=13414_ASGN_all#page3.tif source=13414_ASGN_all#page4.tif source=13414_ASGN_all#page5.tif source=13414_ASGN_all#page6.tif source=13414_ASGN_all#page7.tif source=13414_ASGN_all#page8.tif source=13414_ASGN_all#page9.tif source=13414_ASGN_all#page10.tif source=13414_ASGN_all#page11.tif source=13414_ASGN_all#page12.tif source=13414_ASGN_all#page13.tif source=13414_ASGN_all#page14.tif source=13414_ASGN_all#page15.tif source=13414_ASGN_all#page16.tif source=13414_ASGN_all#page17.tif source=13414_ASGN_all#page18.tif source=13414_ASGN_all#page19.tif source=13414_ASGN_all#page20.tif source=13414_ASGN_all#page21.tif source=13414_ASGN_all#page22.tif source=13414_ASGN_all#page23.tif source=13414_ASGN_all#page24.tif	

## GLOBAL GENERAL ASSIGNMENT

WHEREAS I/we, the undersigned inventor(s) herewith declare that I am the sole inventor/we are the joint inventors and I/we have made certain invention(s), as set forth in a patent application (including industrial designs and utility models), whether claimed or unclaimed, entitled MICROFLUIDIC DELIVERY SYSTEM, Attorney's Docket No. 13414 and filed in the United States Patent Office as Number 14/310,311, on 06-20-2014. (I/we grant the hereinafter named assignee and/or any person authorized thereby, the power to insert the Serial Number and filing date of said application in this document when ascertained.)

Dana Paul GRUENBACHER of One Procter & Gamble Plaza, Cincinnati, Ohio 45202 USA;  
Stephan Gary BUSH of One Procter & Gamble Plaza, Cincinnati, Ohio 45202 USA;

I/We made said invention(s) set forth in said patent application while employed by, or otherwise under an obligation to assign said invention(s) to The Procter & Gamble Company or one of its Affiliates, and acknowledge my/our obligation at the time the invention(s) was made to assign said invention(s) to The Procter & Gamble Company or the Affiliate, respectively. Pursuant to said obligation (and in the case of employment by or obligation to the Affiliate, at the request of the Affiliate), and/or for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I/we assign to The Procter & Gamble Company, its legal representatives, successors and assigns, all right, title, and interest, in the United States and throughout the world, in, to and under said invention(s) and all patents, patent applications, patent rights, and inventor's certificates thereof, therefore, and therein, including without limitation said application, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all patents which may be granted for said invention(s) by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefore (including the right to claim priority of the filing date of said application in the United States and/or under international conventions), as fully and completely as the same would have been held by me/us had this assignment not been made. The entire right, title and interest shall vest irrevocably in The Procter & Gamble Company. I/We further agree upon request, without additional compensation but at no expense to me/us, to execute or assent to any and all applications for said invention(s), and to execute all other legal documents as may be necessary or desirable to vest the enjoyment of the rights assigned to The Procter & Gamble Company, its legal representatives, successors and assigns, or as said Company may direct.

I/We request and authorize the Commissioner of Patents and Trademarks and/or appropriately empowered officials of foreign countries to issue any and all Patent(s) and/or letters patent(s) which may be granted for said invention(s) herein assigned and as set forth in U. S. Application Serial Number 14/310,311 to The Procter & Gamble Company, its legal representatives, successors or assigns, as the sole owner of the entire right, title, and interest in said Patent(s).

This GLOBAL GENERAL ASSIGNMENT is effective as of the earlier of 1) the date of execution shown below, or 2) the filing date of the first-filed of said patent application(s).

Signed: Dana Paul Gruenbacher  
Dana Paul GRUENBACHER

7/10/15  
Date

STATEMENT OF WITNESS:

I, Steve Horenziak (name of witness), declare that I was personally present and did see Dana Gruenbacher duly sign and execute the above assignment. I make this Statement conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath or affirmation, and with the knowledge that knowingly making false statements herein may be punishable by law.

STEVEN A HORENZIAK  
Witness printed name

Steve A Horenziak  
Witness signature

Signed: \_\_\_\_\_  
Stephan Gary BUSH

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I, \_\_\_\_\_ (name of witness), declare that I was personally present and did see \_\_\_\_\_ duly sign and execute the above assignment. I make this Statement conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath or affirmation, and with the knowledge that knowingly making false statements herein may be punishable by law.

\_\_\_\_\_  
Witness printed name

\_\_\_\_\_  
Witness signature

## GLOBAL GENERAL ASSIGNMENT

WHEREAS I/we, the undersigned inventor(s) herewith declare that I am the sole inventor/we are the joint inventors and I/we have made certain invention(s), as set forth in a patent application (including industrial designs and utility models), whether claimed or unclaimed, entitled MICROFLUIDIC DELIVERY SYSTEM, Attorney's Docket No. 13414 and filed in the United States Patent Office as Number 14/310,311, on 06-20-2014. (I/we grant the hereinafter named assignee and/or any person authorized thereby, the power to insert the Serial Number and filing date of said application in this document when ascertained.)

Dana Paul GRUENBACHER of One Procter & Gamble Plaza, Cincinnati, Ohio 45202 USA;  
Stephan Gary BUSH of One Procter & Gamble Plaza, Cincinnati, Ohio 45202 USA;

I/We made said invention(s) set forth in said patent application while employed by, or otherwise under an obligation to assign said invention(s) to The Procter & Gamble Company or one of its Affiliates, and acknowledge my/our obligation at the time the invention(s) was made to assign said invention(s) to The Procter & Gamble Company or the Affiliate, respectively. Pursuant to said obligation (and in the case of employment by or obligation to the Affiliate, at the request of the Affiliate), and/or for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I/we assign to The Procter & Gamble Company, its legal representatives, successors and assigns, all right, title, and interest, in the United States and throughout the world, in, to and under said invention(s) and all patents, patent applications, patent rights, and inventor's certificates thereof, therefore, and therein, including without limitation said application, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all patents which may be granted for said invention(s) by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefore (including the right to claim priority of the filing date of said application in the United States and/or under international conventions), as fully and completely as the same would have been held by me/us had this assignment not been made. The entire right, title and interest shall vest irrevocably in The Procter & Gamble Company. I/We further agree upon request, without additional compensation but at no expense to me/us, to execute or assent to any and all applications for said invention(s), and to execute all other legal documents as may be necessary or desirable to vest the enjoyment of the rights assigned to The Procter & Gamble Company, its legal representatives, successors and assigns, or as said Company may direct.

I/We request and authorize the Commissioner of Patents and Trademarks and/or appropriately empowered officials of foreign countries to issue any and all Patent(s) and/or letters patent(s) which may be granted for said invention(s) herein assigned and as set forth in U. S. Application Serial Number 14/310,311 to The Procter & Gamble Company, its legal representatives, successors or assigns, as the sole owner of the entire right, title, and interest in said Patent(s).

This GLOBAL GENERAL ASSIGNMENT is effective as of the earlier of 1) the date of execution shown below, or 2) the filing date of the first-filed of said patent application(s).

Signed: \_\_\_\_\_  
Dana Paul GRUENBACHER

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I, GRANT STRIEMER <sup>GS</sup> (name of witness), declare that I was personally present and did see STEVE BUSH <sup>GS</sup> duly sign and execute the above assignment. I make this Statement conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath or affirmation, and with the knowledge that knowingly making false statements herein may be punishable by law.

GRANT STRIEMER  
Witness printed name

[Signature]  
Witness signature

Signed: [Signature]  
Stephan Gary BUSH

July 13, 2015  
Date

STATEMENT OF WITNESS:

I, GRANT STRIEMER (name of witness), declare that I was personally present and did see STEVE BUSH duly sign and execute the above assignment. I make this Statement conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath or affirmation, and with the knowledge that knowingly making false statements herein may be punishable by law.

\_\_\_\_\_  
Witness printed name

\_\_\_\_\_  
Witness signature

## ASSIGNMENT

Application Number: *14/310,311*

Filing Date: *June 20, 2014*

Application Country/Region: *United States of America*

Application Title: *MICROFLUIDIC DELIVERY SYSTEM*

Assignee: *STMicroelectronics S.r.l.*

Assignee being a company, corporation, or juristic entity of: *Italy*

Assignee's principal place of business: *Via C. Olivetti, 2, Agrate Brianza (MB), Italy 20864*

I, the below identified and undersigned inventor or co-inventor, as the case may be, of residence listed below, for and in consideration of good and valuable consideration, the receipt, sufficiency, and adequacy of which are hereby acknowledged, hereby transfer and assign to Assignee, its legal representatives, successors, and assigns, my entire right, title, and interest in and to the inventions for which the above identified patent application is made and describes (hereinafter referred to as "the Patent Rights"), together with any and all patents or patent applications anywhere worldwide to which any of the Patent Rights directly or indirectly claims priority, including but not limited to provisional applications thereof, or for which any of the Patent Rights directly or indirectly forms a basis for priority, together with all existing and/or future continuations, continuations-in-part, continuing prosecution applications, requests for continuing examinations, divisions, reissues, reexaminations, extensions, registrations, and foreign counterparts of any item in any of the foregoing, together with the right to sue for and be entitled to any damages, injunctive relief, and any other remedies of any kind for past, current, and future infringement thereof, together with all rights worldwide in the Patent Rights; said entire right, title, and interest, to be held and enjoyed by the Assignee for its own use and enjoyment and for the use and enjoyment of its legal representatives, successors, and assigns to the full end of the term for which the aforementioned rights may be granted anywhere in the world.

I hereby further agree to assist in and execute all documents needed now or in the future to perfect, obtain, and secure the aforementioned rights to Assignee, its legal representatives, successors, and assigns, for any jurisdiction in the world. At the expense of Assignee, or its legal representatives, successors, or assigns, I agree to assist in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid Assignee, its legal representatives, successors, and assigns, to enforce the aforementioned rights in any and all countries and regions worldwide.

I hereby grant Assignee, along with the following Assignee representatives, the power to insert in this Assignment any further identification that may be necessary or desirable in order to comply with the rules for recordation of this document any place in the world: All practitioners at Customer Number 28899.

If there are co-inventors listed below, the signatures of all the inventors need not appear on the same page, and each inventor may sign this Assignment in multiple counterparts, such that each separately signed counterpart of this Assignment constitutes an original Assignment for the inventor(s) that signed such counterpart.

Inventor Name	Residence (City, State, Country)	Inventor Signature	Date Signed
<del>Dave HUNT</del> David S. Hunt DA 6-16-15	11088 Ipal Ct. San Diego, CA 92127 United States of America	D.S. Hunt	6-16-15
Joseph Edward SCHEFFELIN	13029 Pomard Way San Diego, CA 92046 United States of America	J.E. Scheffelin	6/16/15
Steven L. WEBB	24103 Golden Pheasant Lane Murrieta, CA 92562 United States of America	St. Webb	6/16/15
Domenico GIUSTI	Carlo Amati 12 Monza Italy 20100		



## ASSIGNMENT

Application Number: *14/310,311*

Filing Date: *June 20, 2014*

Application Country/Region: *United States of America*

Application Title: *MICROFLUIDIC DELIVERY SYSTEM*

Assignee: *STMicroelectronics S.r.l.*

Assignee being a company, corporation, or juristic entity of: *Italy*

Assignee's principal place of business: *Via C. Olivetti, 2, Agrate Brianza (MB), Italy 20864*

I, the below identified and undersigned inventor or co-inventor, as the case may be, of residence listed below, for and in consideration of good and valuable consideration, the receipt, sufficiency, and adequacy of which are hereby acknowledged, hereby transfer and assign to Assignee, its legal representatives, successors, and assigns, my entire right, title, and interest in and to the inventions for which the above identified patent application is made and describes (hereinafter referred to as "the Patent Rights"), together with any and all patents or patent applications anywhere worldwide to which any of the Patent Rights directly or indirectly claims priority, including but not limited to provisional applications thereof, or for which any of the Patent Rights directly or indirectly forms a basis for priority, together with all existing and/or future continuations, continuations-in-part, continuing prosecution applications, requests for continuing examinations, divisions, reissues, reexaminations, extensions, registrations, and foreign counterparts of any item in any of the foregoing, together with the right to sue for and be entitled to any damages, injunctive relief, and any other remedies of any kind for past, current, and future infringement thereof, together with all rights worldwide in the Patent Rights; said entire right, title, and interest, to be held and enjoyed by the Assignee for its own use and enjoyment and for the use and enjoyment of its legal representatives, successors, and assigns to the full end of the term for which the aforementioned rights may be granted anywhere in the world.

I hereby further agree to assist in and execute all documents needed now or in the future to perfect, obtain, and secure the aforementioned rights to Assignee, its legal representatives, successors, and assigns, for any jurisdiction in the world. At the expense of Assignee, or its legal representatives, successors, or assigns, I agree to assist in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid Assignee, its legal representatives, successors, and assigns, to enforce the aforementioned rights in any and all countries and regions worldwide.

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Inventor Name	Residence (City, State, Country)	Inventor Signature	Date Signed
<i>Dave HUNT</i>	<i>11088 Ipai Ct. San Diego, CA 92127 United States of America</i>		
<i>Joseph Edward SCHEFFELIN</i>	<i>13029 Pomard Way San Diego, CA 92046 United States of America</i>		
<i>Steven L. WEBB</i>	<i>24103 Golden Pheasant Lane Murrieta, CA 92562 United States of America</i>		
<i>Domenico GIUSTI</i>	<i>Carlo Amati 12 Monza Italy 20100</i>	<i>Domenico Giusti</i>	<i>12 June 2015</i>

## ASSIGNMENT

Application Number: *14/310,311*

Filing Date: *June 20, 2014*

Application Country/Region: *United States of America*

Application Title: *MICROFLUIDIC DELIVERY SYSTEM*

Assignee: *STMicroelectronics Asia Pacific Pte Ltd*

Assignee being a company, corporation, or juristic entity of: *Singapore*


Assignee's principal place of business: *5A Serangoon North Avenue 5, Singapore, Singapore 554574*

I, the below identified and undersigned inventor or co-inventor, as the case may be, of residence listed below, for and in consideration of good and valuable consideration, the receipt, sufficiency, and adequacy of which are hereby acknowledged, hereby transfer and assign to Assignee, its legal representatives, successors, and assigns, my entire right, title, and interest in and to the inventions for which the above identified patent application is made and describes (hereinafter referred to as "the Patent Rights"), together with any and all patents or patent applications anywhere worldwide to which any of the Patent Rights directly or indirectly claims priority, including but not limited to provisional applications thereof, or for which any of the Patent Rights directly or indirectly forms a basis for priority, together with all existing and/or future continuations, continuations-in-part, continuing prosecution applications, requests for continuing examinations, divisions, reissues, reexaminations, extensions, registrations, and foreign counterparts of any item in any of the foregoing, together with the right to sue for and be entitled to any damages, injunctive relief, and any other remedies of any kind for past, current, and future infringement thereof, together with all rights worldwide in the Patent Rights; said entire right, title, and interest, to be held and enjoyed by the Assignee for its own use and enjoyment and for the use and enjoyment of its legal representatives, successors, and assigns to the full end of the term for which the aforementioned rights may be granted anywhere in the world.

I hereby further agree to assist in and execute all documents needed now or in the future to perfect, obtain, and secure the aforementioned rights to Assignee, its legal representatives, successors, and assigns, for any jurisdiction in the world. At the expense of Assignee, or its legal representatives, successors, or assigns, I agree to assist in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid Assignee, its legal representatives, successors, and assigns, to enforce the aforementioned rights in any and all countries and regions worldwide.

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If there are co-inventors listed below, the signatures of all the inventors need not appear on the same page, and each inventor may sign this Assignment in multiple counterparts, such that each separately signed counterpart of this Assignment constitutes an original Assignment for the inventor(s) that signed such counterpart.

Inventor Name	Residence (City, State, Country)	Inventor Signature	Date Signed
<i>Teck Khim NEO</i>	<i>552 Ang Mo Kio Ave 10 #17-1984 Singapore Singapore 560552</i>		<i>17 Jun 2015</i>

## ASSIGNMENT

Application Number: *14/310,311*

Filing Date: *June 20, 2014*

Application Country/Region: *United States of America*

Application Title: *MICROFLUIDIC DELIVERY SYSTEM*

Assignee: *STMicroelectronics, Inc.*

Assignee being a company, corporation, or juristic entity of: *Delaware, United States of America*


Assignee's principal place of business: *750 Canyon Drive, Suite 300, Coppell, TX 75019*

I, the below identified and undersigned inventor or co-inventor, as the case may be, of residence listed below, for and in consideration of good and valuable consideration, the receipt, sufficiency, and adequacy of which are hereby acknowledged, hereby transfer and assign to Assignee, its legal representatives, successors, and assigns, my entire right, title, and interest in and to the inventions for which the above identified patent application is made and describes (hereinafter referred to as "the Patent Rights"), together with any and all patents or patent applications anywhere worldwide to which any of the Patent Rights directly or indirectly claims priority, including but not limited to provisional applications thereof, or for which any of the Patent Rights directly or indirectly forms a basis for priority, together with all existing and/or future continuations, continuations-in-part, continuing prosecution applications, requests for continuing examinations, divisions, reissues, reexaminations, extensions, registrations, and foreign counterparts of any item in any of the foregoing, together with the right to sue for and be entitled to any damages, injunctive relief, and any other remedies of any kind for past, current, and future infringement thereof, together with all rights worldwide in the Patent Rights; said entire right, title, and interest, to be held and enjoyed by the Assignee for its own use and enjoyment and for the use and enjoyment of its legal representatives, successors, and assigns to the full end of the term for which the aforementioned rights may be granted anywhere in the world.

I hereby further agree to assist in and execute all documents needed now or in the future to perfect, obtain, and secure the aforementioned rights to Assignee, its legal representatives, successors, and assigns, for any jurisdiction in the world. At the expense of Assignee, or its legal representatives, successors, or assigns, I agree to assist in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid Assignee, its legal representatives, successors, and assigns, to enforce the aforementioned rights in any and all countries and regions worldwide.

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If there are co-inventors listed below, the signatures of all the inventors need not appear on the same page, and each inventor may sign this Assignment in multiple counterparts, such that each separately signed counterpart of this Assignment constitutes an original Assignment for the inventor(s) that signed such counterpart.

Inventor Name	Residence (City, State, Country)	Inventor Signature	Date Signed
<i>Simon DODD</i>	<i>2419 Remington Dr. West Linn, OR 97068 United States of America</i>		<i>12 June 2015</i>

## ASSIGNMENT

Application Number: *Listed in Exhibit A*  
Application Country/Region: *Listed in Exhibit A*  
Application Title: *Listed in Exhibit A*

Assignee: *STMicroelectronics International N.V.*  
Assignee being a company, corporation, or juristic entity of: *Netherlands*  
Assignee's principal place of business: *WTC Schiphol Airport, Schiphol Boulevard 265,  
Schiphol Airport, Amsterdam, Netherlands 1118 BH*

WHEREAS, Assignor STMicroelectronics Asia Pacific Pte Ltd, a Singapore corporation, was assigned certain rights in and to certain inventions, and applications for Letters Patent listed in the attached Exhibit A.

WHEREAS, Assignee STMicroelectronics International N.V., a Dutch corporation, residing or having a principal place of business at WTC Schiphol Airport, Schiphol Boulevard 265, Schiphol Airport, Amsterdam, Netherlands 1118 BH, is desirous of acquiring the entire right, title and interest in and to the inventions and the applications for Letters Patent of the United States listed in the attached Exhibit A, and in and to any Letters Patent to be obtained therefor and thereon worldwide.

Now, therefore, for and in consideration of good and valuable consideration, the receipt, sufficiency, and adequacy of which are hereby acknowledged, Assignor hereby transfers and assigns to Assignee, its legal representatives, successors, and assigns, its entire right, title, and interest in and to the inventions for which the patent applications listed in Exhibit A attached hereto are made and described (hereinafter referred to as "the Patent Rights"), together with any and all patents or patent applications anywhere worldwide to which any of the Patent Rights directly or indirectly claims priority, including but not limited to provisional applications thereof, or for which any of the Patent Rights directly or indirectly forms a basis for priority, together with all existing and/or future continuations, continuations-in-part, continuing prosecution applications, requests for continuing examinations, divisions, reissues, reexaminations, extensions, registrations, and foreign counterparts of any item in any of the foregoing, together with the right to sue for and be entitled to any damages, injunctive relief, and any other remedies of any kind for past, current, and future infringement thereof, together with all rights worldwide in the Patent Rights; said entire right, title, and interest, to be held and enjoyed by the Assignee for its own use and enjoyment and for the use and enjoyment of its legal representatives, successors, and assigns to the full end of the term for which the aforementioned rights may be granted anywhere in the world.

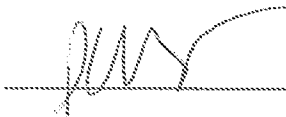
Assignor hereby further agrees to assist in and execute all documents needed now or in the future to perfect, obtain, and secure the aforementioned rights to Assignee, its legal representatives, successors, and assigns, for any jurisdiction in the world. At the expense of Assignee, or its legal representatives, successors, or assigns, Assignor agrees to assist in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to

aid Assignee, its legal representatives, successors, and assigns, to enforce the aforementioned rights in any and all countries and regions worldwide.

Assignor hereby grants Assignee, along with the following Assignee representatives, the power to insert in this Assignment any further identification that may be necessary or desirable in order to comply with the rules for recordation of this document any place in the world: All practitioners at Customer Number 28899.

STMicroelectronics Asia Pacific Pte Ltd

Date: July 1, 2015

By: \_\_\_\_\_

Printed Name: Patrick C.R. Holmes

Title: Attorney-in-Fact



EXHIBIT A

P&G Ref	Application No.	Filing Date	Title
13414	14/310,311	June 20, 2014	<i>MICROFLUIDIC DELIVERY SYSTEM</i>
13415	14/310,334	June 20, 2014	<i>METHOD OF DELIVERING A DOSE OF A FLUID COMPOSITION FROM A MICROFLUIDIC DELIVERY CARTRIDGE</i>
13416	14/310,367	June 20, 2014	<i>METHOD OF DELIVERING A DOSE OF A FLUID COMPOSITION FROM A MICROFLUIDIC DELIVERY CARTRIDGE</i>

## ASSIGNMENT

Application Number: *Listed in Exhibit A*  
Application Country/Region: *Listed in Exhibit A*  
Application Title: *Listed in Exhibit A*

Assignee: *STMicroelectronics International N.V.*  
Assignee being a company, corporation, or juristic entity of: *Netherlands*  
Assignee's principal place of business: *WTC Schiphol Airport, Schiphol Boulevard 265,  
Schiphol Airport, Amsterdam, Netherlands 1118 BH*

WHEREAS, Assignor STMicroelectronics, Inc., a Delaware corporation, was assigned certain rights in and to certain inventions, and applications for Letters Patent listed in the attached Exhibit A.

WHEREAS, Assignee STMicroelectronics International N.V., a Dutch corporation, residing or having a principal place of business at WTC Schiphol Airport, Schiphol Boulevard 265, Schiphol Airport, Amsterdam, Netherlands 1118 BH, is desirous of acquiring the entire right, title and interest in and to the inventions and the applications for Letters Patent of the United States listed in the attached Exhibit A, and in and to any Letters Patent to be obtained therefor and thereon worldwide.

Now, therefore, for and in consideration of good and valuable consideration, the receipt, sufficiency, and adequacy of which are hereby acknowledged, Assignor hereby transfers and assigns to Assignee, its legal representatives, successors, and assigns, its entire right, title, and interest in and to the inventions for which the patent applications listed in Exhibit A attached hereto are made and described (hereinafter referred to as "the Patent Rights"), together with any and all patents or patent applications anywhere worldwide to which any of the Patent Rights directly or indirectly claims priority, including but not limited to provisional applications thereof, or for which any of the Patent Rights directly or indirectly forms a basis for priority, together with all existing and/or future continuations, continuations-in-part, continuing prosecution applications, requests for continuing examinations, divisions, reissues, reexaminations, extensions, registrations, and foreign counterparts of any item in any of the foregoing, together with the right to sue for and be entitled to any damages, injunctive relief, and any other remedies of any kind for past, current, and future infringement thereof, together with all rights worldwide in the Patent Rights; said entire right, title, and interest, to be held and enjoyed by the Assignee for its own use and enjoyment and for the use and enjoyment of its legal representatives, successors, and assigns to the full end of the term for which the aforementioned rights may be granted anywhere in the world.

Assignor hereby further agrees to assist in and execute all documents needed now or in the future to perfect, obtain, and secure the aforementioned rights to Assignee, its legal representatives, successors, and assigns, for any jurisdiction in the world. At the expense of Assignee, or its legal representatives, successors, or assigns, Assignor agrees to assist in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to

PG Docket Numbers: *13412, 13413, 13414, 13415, 13516*

aid Assignee, its legal representatives, successors, and assigns, to enforce the aforementioned rights in any and all countries and regions worldwide.

Assignor hereby grants Assignee, along with the following Assignee representatives, the power to insert in this Assignment any further identification that may be necessary or desirable in order to comply with the rules for recordation of this document any place in the world: All practitioners at Customer Number 28899.

STMicroelectronics, Inc.

Date: July 1, 2015

By: 

Printed Name: Patrick C.R. Holmes

Title: Attorney-in-Fact

EXHIBIT A

P&G Ref	Application No.	Filing Date	Title
13412	14/310,401	June 20, 2014	<i>MICROFLUIDIC DELIVERY SYSTEM FOR RELEASING FLUID COMPOSITIONS</i>
13413	14/310,285	June 20, 2014	<i>MICROFLUIDIC DELIVERY SYSTEM FOR RELEASING FLUID COMPOSITIONS</i>
13414	14/310,311	June 20, 2014	<i>MICROFLUIDIC DELIVERY SYSTEM</i>
13415	14/310,334	June 20, 2014	<i>METHOD OF DELIVERING A DOSE OF A FLUID COMPOSITION FROM A MICROFLUIDIC DELIVERY CARTRIDGE</i>
13416	14/310,367	June 20, 2014	<i>METHOD OF DELIVERING A DOSE OF A FLUID COMPOSITION FROM A MICROFLUIDIC DELIVERY CARTRIDGE</i>

PG Docket Numbers: 13412, 13413, 13414, 13415, 13516

## ASSIGNMENT

Application Number: *Listed in Exhibit A*  
Application Country/Region: *Listed in Exhibit A*  
Application Title: *Listed in Exhibit A*

Assignee: *STMicroelectronics International N.V.*  
Assignee being a company, corporation, or juristic entity of: *Netherlands*  
Assignee's principal place of business: *WTC Schiphol Airport, Schiphol Boulevard 265,  
Schiphol Airport, Amsterdam, Netherlands 1118 BH*

WHEREAS, Assignor STMicroelectronics S.r.l., an Italian corporation, was assigned certain rights in and to certain inventions, and applications for Letters Patent listed in the attached Exhibit A.

WHEREAS, Assignee STMicroelectronics International N.V., a Dutch corporation, residing or having a principal place of business at WTC Schiphol Airport, Schiphol Boulevard 265, Schiphol Airport, Amsterdam, Netherlands 1118 BH, is desirous of acquiring the entire right, title and interest in and to the inventions and the applications for Letters Patent of the United States listed in the attached Exhibit A, and in and to any Letters Patent to be obtained therefor and thereon worldwide.

Now, therefore, for and in consideration of good and valuable consideration, the receipt, sufficiency, and adequacy of which are hereby acknowledged, Assignor hereby transfers and assigns to Assignee, its legal representatives, successors, and assigns, its entire right, title, and interest in and to the inventions for which the patent applications listed in Exhibit A attached hereto are made and described (hereinafter referred to as "the Patent Rights"), together with any and all patents or patent applications anywhere worldwide to which any of the Patent Rights directly or indirectly claims priority, including but not limited to provisional applications thereof, or for which any of the Patent Rights directly or indirectly forms a basis for priority, together with all existing and/or future continuations, continuations-in-part, continuing prosecution applications, requests for continuing examinations, divisions, reissues, reexaminations, extensions, registrations, and foreign counterparts of any item in any of the foregoing, together with the right to sue for and be entitled to any damages, injunctive relief, and any other remedies of any kind for past, current, and future infringement thereof, together with all rights worldwide in the Patent Rights; said entire right, title, and interest, to be held and enjoyed by the Assignee for its own use and enjoyment and for the use and enjoyment of its legal representatives, successors, and assigns to the full end of the term for which the aforementioned rights may be granted anywhere in the world.

Assignor hereby further agrees to assist in and execute all documents needed now or in the future to perfect, obtain, and secure the aforementioned rights to Assignee, its legal representatives, successors, and assigns, for any jurisdiction in the world. At the expense of Assignee, or its legal representatives, successors, or assigns, Assignor agrees to assist in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to

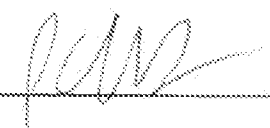
PG Docket Numbers: *13412, 13413, 13414, 13415, 13516*

aid Assignee, its legal representatives, successors, and assigns, to enforce the aforementioned rights in any and all countries and regions worldwide.

Assignor hereby grants Assignee, along with the following Assignee representatives, the power to insert in this Assignment any further identification that may be necessary or desirable in order to comply with the rules for recordation of this document any place in the world: All practitioners at Customer Number 28899.

STMicroelectronics S.r.l.

Date: July 1, 2015

By: \_\_\_\_\_

Printed Name: Patrick C.R. Holmes

Title: Attorney-in-Fact

EXHIBIT A

P&G Ref	Application No.	Filing Date	Title
13412	14/310,401	June 20, 2014	<i>MICROFLUIDIC DELIVERY SYSTEM FOR RELEASING FLUID COMPOSITIONS</i>
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PG Docket Numbers: 13412, 13413, 13414, 13415, 13516

## ASSIGNMENT

Application Number: *Listed in Exhibit A*  
Application Country/Region: *Listed in Exhibit A*  
Application Title: *Listed in Exhibit A*

Assignee: *The Procter & Gamble Company*  
Assignee being a company, corporation, or juristic entity of: *Ohio, United States of America*  
Assignee's principal place of business: *One Procter & Gamble Plaza, Cincinnati, Ohio 45202*

WHEREAS, Assignor STMicroelectronics International N.V., a Dutch corporation, was assigned certain rights in and to certain inventions, and applications for Letters Patent listed in the attached Exhibit A.

WHEREAS, Assignee The Procter & Gamble Company, a Ohio corporation, residing or having a principal place of business at One Procter & Gamble Plaza, Cincinnati, Ohio 45202, is desirous of acquiring the entire right, title and interest in and to the inventions and the applications for Letters Patent of the United States listed in the attached Exhibit A, and in and to any Letters Patent to be obtained therefor and thereon worldwide.

Now, therefore, for and in consideration of good and valuable consideration, the receipt, sufficiency, and adequacy of which are hereby acknowledged, Assignor hereby transfers and assigns to Assignee, its legal representatives, successors, and assigns, its entire right, title, and interest in and to the inventions for which the patent applications listed in Exhibit A attached hereto are made and described (hereinafter referred to as "the Patent Rights"), together with any and all patents or patent applications anywhere worldwide to which any of the Patent Rights directly or indirectly claims priority, including but not limited to provisional applications thereof, or for which any of the Patent Rights directly or indirectly forms a basis for priority, together with all existing and/or future continuations, continuations-in-part, continuing prosecution applications, requests for continuing examinations, divisions, reissues, reexaminations, extensions, registrations, and foreign counterparts of any item in any of the foregoing, together with the right to sue for and be entitled to any damages, injunctive relief, and any other remedies of any kind for past, current, and future infringement thereof, together with all rights worldwide in the Patent Rights; said entire right, title, and interest, to be held and enjoyed by the Assignee for its own use and enjoyment and for the use and enjoyment of its legal representatives, successors, and assigns to the full end of the term for which the aforementioned rights may be granted anywhere in the world.

Assignor hereby further agrees to assist in and execute all documents needed now or in the future to perfect, obtain, and secure the aforementioned rights to Assignee, its legal representatives, successors, and assigns, for any jurisdiction in the world. At the expense of Assignee, or its legal representatives, successors, or assigns, Assignor agrees to assist in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid Assignee, its legal representatives, successors, and assigns, to enforce the aforementioned rights in any and all countries and regions worldwide.

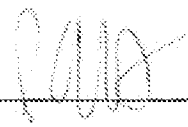
PG Docket Numbers: *13412, 13413, 13414, 13415, 13516*



Assignor hereby grants Assignee, along with the following Assignee representatives, the power to insert in this Assignment any further identification that may be necessary or desirable in order to comply with the rules for recordation of this document any place in the world: All practitioners at Customer Number 27752.

STMicroelectronics International N.V.

Date: July 10, 2015

By:  \_\_\_\_\_

Printed Name: Patrick C.R. Holmes

Title: Attorney-in-Fact

EXHIBIT A

P&G Ref	Application No.	Filing Date	Title
13412	14/310,401	June 20, 2014	<i>MICROFLUIDIC DELIVERY SYSTEM FOR RELEASING FLUID COMPOSITIONS</i>
13413	14/310,285	June 20, 2014	<i>MICROFLUIDIC DELIVERY SYSTEM FOR RELEASING FLUID COMPOSITIONS</i>
13414	14/310,311	June 20, 2014	<i>MICROFLUIDIC DELIVERY SYSTEM</i>
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