

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5462076

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RAY DENNIS DRIA	04/01/2019
MICHAEL JOSEPH PAGE	03/19/2019
JOSEPH LESLIE GROLMES	03/20/2019
SCOTT ALAN KING	03/19/2019
MATTHEW STEVEN RITTER	03/19/2019
CHRISTOPHER COLIN ARP	03/19/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE PROCTER & GAMBLE COMPANY
<b>Street Address:</b>	ONE 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>
<b>Application Number:</b>	16357685
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(513)285-3105
<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>	513-983-9345
<b>Email:</b>	wilson.ls@pg.com
<b>Correspondent Name:</b>	CENTRAL DOCKETING
<b>Address Line 1:</b>	ONE PROCTER & GAMBLE PLAZA, 9TH FLOOR
<b>Address Line 2:</b>	IP DIVISION - CENTRAL BUILDING
<b>Address Line 4:</b>	CINCINNATI, OHIO 45202
<b>ATTORNEY DOCKET NUMBER:</b>	15154M
<b>NAME OF SUBMITTER:</b>	WEDNESDAY G. SHIPP
<b>SIGNATURE:</b>	/Wednesday G. Shipp/
<b>DATE SIGNED:</b>	04/08/2019

PATENT

**Total Attachments: 18**

source=15154M-AssignmentSigned-ALLINVENTORS#page1.tif  
source=15154M-AssignmentSigned-ALLINVENTORS#page2.tif  
source=15154M-AssignmentSigned-ALLINVENTORS#page3.tif  
source=15154M-AssignmentSigned-ALLINVENTORS#page4.tif  
source=15154M-AssignmentSigned-ALLINVENTORS#page5.tif  
source=15154M-AssignmentSigned-ALLINVENTORS#page6.tif  
source=15154M-AssignmentSigned-ALLINVENTORS#page7.tif  
source=15154M-AssignmentSigned-ALLINVENTORS#page8.tif  
source=15154M-AssignmentSigned-ALLINVENTORS#page9.tif  
source=15154M-AssignmentSigned-ALLINVENTORS#page10.tif  
source=15154M-AssignmentSigned-ALLINVENTORS#page11.tif  
source=15154M-AssignmentSigned-ALLINVENTORS#page12.tif  
source=15154M-AssignmentSigned-ALLINVENTORS#page13.tif  
source=15154M-AssignmentSigned-ALLINVENTORS#page14.tif  
source=15154M-AssignmentSigned-ALLINVENTORS#page15.tif  
source=15154M-AssignmentSigned-ALLINVENTORS#page16.tif  
source=15154M-AssignmentSigned-ALLINVENTORS#page17.tif  
source=15154M-AssignmentSigned-ALLINVENTORS#page18.tif

GLOBAL GENERAL ASSIGNMENT

WHEREAS I/we, the undersigned inventor(s) hereby declare that I/we, alone or jointly with the other inventor(s) identified herein, have made certain invention(s), as set forth in a patent application (including industrial designs and utility models), whether claimed or unclaimed, entitled **BOND PATTERN**, Attorney's Docket No. **15154M** and filed in the United States Patent Office as Serial Number 16/357,685, on March 19, 2019 and/or the corresponding application filed in the PCT as Serial Number \_\_\_\_\_, on \_\_\_\_\_. I/we grant the hereinafter named assignee and/or any person authorized thereby, the power to insert in this document, the Serial Number and filing date of each application identified above when ascertained.) having named inventors:

Ray Dennis DRIA of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;  
Michael Joseph PAGE of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;  
Joseph Leslie GROLMES of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;  
Scott Alan KING of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;  
Matthew Steven RITTER of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA; and  
Christopher Colin ARP of One Procter & Gamble Plaza, Cincinnati, OH 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, my/our entire 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. My/our entire right, title and interest shall vest irrevocably in The Procter & Gamble Company. I/We further agree to, without additional compensation but at no expense to me/us, execute or assent to any and all applications for said invention(s), execute all other legal documents as may be necessary or desirable to vest and maintain the enjoyment of the rights assigned, and to cooperate with The Procter & Gamble Company, its legal representatives, successors and assigns, or as said Company may direct, in any pre-grant, post-grant or other proceedings relating to the rights assigned herein.

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 16/357,685 to The Procter & Gamble Company, its legal representatives, successors or assigns, as assignee of my/our 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: Ray Dennis Dria  
Ray Dennis DRIA

April 1, 2019  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Ray Dennis DRIA 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.

URMISH DALAL  
Witness printed name

Urmish Dalal  
Witness signature

Signed: \_\_\_\_\_  
Michael Joseph PAGE

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Michael Joseph PAGE 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

Signed: \_\_\_\_\_  
Joseph Leslie GROLMES

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Joseph Leslie GROLMES 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

Signed: \_\_\_\_\_  
Scott Alan KING

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see **Scott Alan KING** 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

Signed: \_\_\_\_\_  
Matthew Steven RITTER

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see **Matthew Steven RITTER** 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

Signed: \_\_\_\_\_  
Christopher Colin ARP

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see **Christopher Colin ARP** 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) hereby declare that I/we, alone or jointly with the other inventor(s) identified herein, have made certain invention(s), as set forth in a patent application (including industrial designs and utility models), whether claimed or unclaimed, entitled **BOND PATTERN**, Attorney's Docket No. 15154M and filed in the United States Patent Office as Serial Number 16/357,685, on March 19, 2019 and/or the corresponding application filed in the PCT as Serial Number \_\_\_\_\_, on \_\_\_\_\_ I/we grant the hereinafter named assignee and/or any person authorized thereby, the power to insert in this document, the Serial Number and filing date of each application identified above when ascertained.) having named inventors:

Ray Dennis DRIA of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;  
Michael Joseph PAGE of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;  
Joseph Leslie GROLMES of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;  
Scott Alan KING of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;  
Matthew Steven RITTER of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA; and  
Christopher Colin ARP of One Procter & Gamble Plaza, Cincinnati, OH 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, my/our entire 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. My/our entire right, title and interest shall vest irrevocably in The Procter & Gamble Company. I/We further agree to, without additional compensation but at no expense to me/us, execute or assent to any and all applications for said invention(s), execute all other legal documents as may be necessary or desirable to vest and maintain the enjoyment of the rights assigned, and to cooperate with The Procter & Gamble Company, its legal representatives, successors and assigns, or as said Company may direct, in any pre-grant, post-grant or other proceedings relating to the rights assigned herein.

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 16/357,685 to The Procter & Gamble Company, its legal representatives, successors or assigns, as assignee of my/our 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).

PATENT

REEL: 048814 FRAME: 0872

Signed: \_\_\_\_\_  
Ray Dennis DRIA

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Ray Dennis DRIA 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

Signed: \_\_\_\_\_  
Michael Joseph PAGE

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Michael Joseph PAGE 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

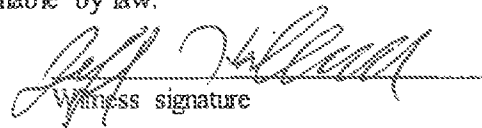
Signed:   
Joseph Leslie GROLMES

20 MAR 2019  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Joseph Leslie GROLMES 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.

JEFF HOWARD  
Witness printed name

  
Witness signature

Signed: \_\_\_\_\_  
Scott Alan KING

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Scott Alan KING 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

Signed: \_\_\_\_\_  
Matthew Steven RITTER

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Matthew Steven RITTER 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

Signed: \_\_\_\_\_  
Christopher Colin ARP

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Christopher Colin ARP 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) hereby declare that I/we, alone or jointly with the other inventor(s) identified herein, have made certain invention(s), as set forth in a patent application (including industrial designs and utility models), whether claimed or unclaimed, entitled **BOND PATTERN**, Attorney's Docket No. 15154M and filed in the United States Patent Office as Serial Number 16/357,685, on March 19, 2019 and/or the corresponding application filed in the PCT as Serial Number \_\_\_\_\_, on \_\_\_\_\_ I/we grant the hereinafter named assignee and/or any person authorized thereby, the power to insert in this document, the Serial Number and filing date of each application identified above when ascertained.) having named inventors:

Ray Dennis DRIA of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;  
Michael Joseph PAGE of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;  
Joseph Leslie GROLMES of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;  
Scott Alan KING of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;  
Matthew Steven RITTER of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA; and  
Christopher Colin ARP of One Procter & Gamble Plaza, Cincinnati, OH 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, my/our entire 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. My/our entire right, title and interest shall vest irrevocably in The Procter & Gamble Company. I/We further agree to, without additional compensation but at no expense to me/us, execute or assent to any and all applications for said invention(s), execute all other legal documents as may be necessary or desirable to vest and maintain the enjoyment of the rights assigned, and to cooperate with The Procter & Gamble Company, its legal representatives, successors and assigns, or as said Company may direct, in any pre-grant, post-grant or other proceedings relating to the rights assigned herein.

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 16/357,685 to The Procter & Gamble Company, its legal representatives, successors or assigns, as assignee of my/our 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).

PATENT

REEL: 048814 FRAME: 0875

Signed: \_\_\_\_\_  
Ray Dennis DRIA

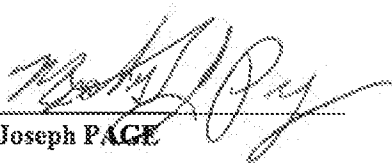
\_\_\_\_\_  
Date

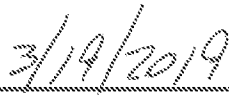
STATEMENT OF WITNESS:

I declare that I was personally present and did see Ray Dennis DRIA 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


Signed:   
Michael Joseph PAGE

  
\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Michael Joseph PAGE 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.

  
Ben Goodman  
\_\_\_\_\_  
Witness printed name

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

Signed: \_\_\_\_\_  
Joseph Leslie GROLMES

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Joseph Leslie GROLMES 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

Signed: \_\_\_\_\_

Scott Alan KING

\_\_\_\_\_

Date

## STATEMENT OF WITNESS:

I declare that I was personally present and did see Scott Alan KING 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

Signed: \_\_\_\_\_

Matthew Steven RITTER

\_\_\_\_\_

Date

## STATEMENT OF WITNESS:

I declare that I was personally present and did see Matthew Steven RITTER 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

Signed: \_\_\_\_\_

Christopher Colin ARP

\_\_\_\_\_

Date

## STATEMENT OF WITNESS:

I declare that I was personally present and did see Christopher Colin ARP 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) hereby declare that I/we, alone or jointly with the other inventor(s) identified herein, have made certain invention(s), as set forth in a patent application (including industrial designs and utility models), whether claimed or unclaimed, entitled **BOND PATTERN**, Attorney's Docket No. 15154M and filed in the United States Patent Office as Serial Number 16/357,685, on March 19, 2019 and/or the corresponding application filed in the PCT as Serial Number \_\_\_\_\_, on \_\_\_\_\_ I/we grant the hereinafter named assignee and/or any person authorized thereby, the power to insert in this document, the Serial Number and filing date of each application identified above when ascertained.) having named inventors:

**Ray Dennis DRIA of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;**  
**Michael Joseph PAGE of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;**  
**Joseph Leslie GROLMES of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;**  
**Scott Alan KING of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;**  
**Matthew Steven RITTER of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA; and**  
**Christopher Colin ARP of One Procter & Gamble Plaza, Cincinnati, OH 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, my/our entire 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. My/our entire right, title and interest shall vest irrevocably in The Procter & Gamble Company. I/We further agree to, without additional compensation but at no expense to me/us, execute or assent to any and all applications for said invention(s), execute all other legal documents as may be necessary or desirable to vest and maintain the enjoyment of the rights assigned, and to cooperate with The Procter & Gamble Company, its legal representatives, successors and assigns, or as said Company may direct, in any pre-grant, post-grant or other proceedings relating to the rights assigned herein.

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 16/357,685 to The Procter & Gamble Company, its legal representatives, successors or assigns, as assignee of my/our 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: \_\_\_\_\_

**Ray Dennis DRIA**

\_\_\_\_\_

Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see **Ray Dennis DRIA** 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

Signed: \_\_\_\_\_

**Michael Joseph PAGE**

\_\_\_\_\_

Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see **Michael Joseph PAGE** 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

Signed: \_\_\_\_\_

**Joseph Leslie GROLMES**

\_\_\_\_\_

Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see **Joseph Leslie GROLMES** 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

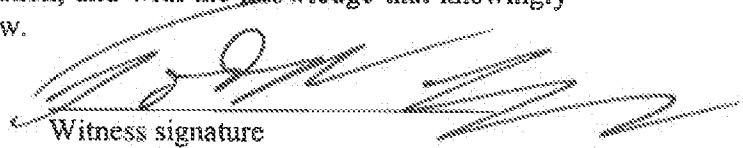
Signed:   
Scott Alan KING

3/19/19  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Scott Alan KING 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.

Todd Lenser  
Witness printed name

  
Witness signature

Signed: \_\_\_\_\_  
Matthew Steven RITTER

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Matthew Steven RITTER 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

Signed: \_\_\_\_\_  
Christopher Colin ARP

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Christopher Colin ARP 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) hereby declare that I/we, alone or jointly with the other inventor(s) identified herein, have made certain invention(s), as set forth in a patent application (including industrial designs and utility models), whether claimed or unclaimed, entitled **BOND PATTERN**, Attorney's Docket No. **15154M** and filed in the United States Patent Office as Serial Number 16/357,685, on March 19, 2019 and/or the corresponding application filed in the PCT as Serial Number \_\_\_\_\_, on \_\_\_\_\_ I/we grant the hereinafter named assignee and/or any person authorized thereby, the power to insert in this document, the Serial Number and filing date of each application identified above when ascertained.) having named inventors:

**Ray Dennis DRIA of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;**  
**Michael Joseph PAGE of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;**  
**Joseph Leslie GROLMES of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;**  
**Scott Alan KING of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;**  
**Matthew Steven RITTER of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA; and**  
**Christopher Colin ARP of One Procter & Gamble Plaza, Cincinnati, OH 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, my/our entire 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. My/our entire right, title and interest shall vest irrevocably in The Procter & Gamble Company. I/We further agree to, without additional compensation but at no expense to me/us, execute or assent to any and all applications for said invention(s), execute all other legal documents as may be necessary or desirable to vest and maintain the enjoyment of the rights assigned, and to cooperate with The Procter & Gamble Company, its legal representatives, successors and assigns, or as said Company may direct, in any pre-grant, post-grant or other proceedings relating to the rights assigned herein.

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 16/357,685 to The Procter & Gamble Company, its legal representatives, successors or assigns, as assignee of my/our 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: \_\_\_\_\_

**Ray Dennis DRIA**

\_\_\_\_\_

Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see **Ray Dennis DRIA** 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

Signed: \_\_\_\_\_

**Michael Joseph PAGE**

\_\_\_\_\_

Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see **Michael Joseph PAGE** 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

Signed: \_\_\_\_\_

**Joseph Leslie GROLMES**

\_\_\_\_\_

Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see **Joseph Leslie GROLMES** 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



Signed: \_\_\_\_\_  
Scott Alan KING

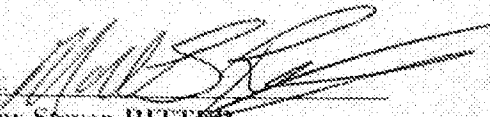
\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see **Scott Alan KING** 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

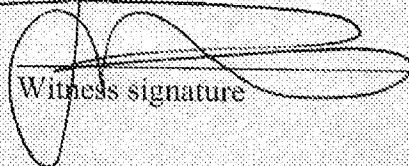
Signed:   
Matthew Steven RITTER

19. March 2019  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see **Matthew Steven RITTER** 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.

Josephine Edelbrock  
Witness printed name

  
Witness signature

Signed: \_\_\_\_\_  
Christopher Colin ARP

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see **Christopher Colin ARP** 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) hereby declare that I/we, alone or jointly with the other inventor(s) identified herein, have made certain invention(s), as set forth in a patent application (including industrial designs and utility models), whether claimed or unclaimed, entitled **BOND PATTERN**, Attorney's Docket No. 15154M and filed in the United States Patent Office as Serial Number 16/357,685, on March 19, 2019 and/or the corresponding application filed in the PCT as Serial Number \_\_\_\_\_, on \_\_\_\_\_ I/we grant the hereinafter named assignee and/or any person authorized thereby, the power to insert in this document, the Serial Number and filing date of each application identified above when ascertained.) having named inventors:

Ray Dennis DRIA of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;  
Michael Joseph PAGE of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;  
Joseph Leslie GROLMES of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;  
Scott Alan KING of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA;  
Matthew Steven RITTER of One Procter & Gamble Plaza, Cincinnati, OH 45202, USA; and  
Christopher Colin ARP of One Procter & Gamble Plaza, Cincinnati, OH 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, my/our entire 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. My/our entire right, title and interest shall vest irrevocably in The Procter & Gamble Company. I/We further agree to, without additional compensation but at no expense to me/us, execute or assent to any and all applications for said invention(s), execute all other legal documents as may be necessary or desirable to vest and maintain the enjoyment of the rights assigned, and to cooperate with The Procter & Gamble Company, its legal representatives, successors and assigns, or as said Company may direct, in any pre-grant, post-grant or other proceedings relating to the rights assigned herein.

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 16/357,685 to The Procter & Gamble Company, its legal representatives, successors or assigns, as assignee of my/our 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).

PATENT

REEL: 048814 FRAME: 0884

Signed: \_\_\_\_\_  
Ray Dennis DRIA

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Ray Dennis DRIA 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

Signed: \_\_\_\_\_  
Michael Joseph PAGE

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Michael Joseph PAGE 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

Signed: \_\_\_\_\_  
Joseph Leslie GROLMES

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Joseph Leslie GROLMES 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

Signed: \_\_\_\_\_  
Scott Alan KING

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Scott Alan KING 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

Signed: \_\_\_\_\_  
Matthew Steven RITTER

\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Matthew Steven RITTER 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

Signed: \_\_\_\_\_  
Christopher Colin ARP

3/19/17  
\_\_\_\_\_  
Date

STATEMENT OF WITNESS:

I declare that I was personally present and did see Christopher Colin ARP 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.

Marietta Thompson  
\_\_\_\_\_  
Witness printed name

Marietta Thompson  
\_\_\_\_\_  
Witness signature