

<b>PATENT ASSIGNMENT COVER SHEET</b>
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
THE PROCTOR & GAMBLE COMPANY	06/21/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	WARNER CHILCOTT COMPANY, LLC
<b>Street Address:</b>	UNION STREET
<b>Internal Address:</b>	KM1.1
<b>City:</b>	FAJARDO
<b>State/Country:</b>	PUERTO RICO
<b>Postal Code:</b>	00738
<b>PROPERTY NUMBERS Total: 12</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	12940883
Application Number:	12940891
Application Number:	12940901
Application Number:	13768308
Application Number:	13770135
Application Number:	14465027
Application Number:	14628261
Application Number:	14688216
Application Number:	15366437
Application Number:	15900447
Application Number:	61258914
Application Number:	61258918
<b>CORRESPONDENCE DATA</b>	
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<b>Phone:</b>	206-622-4900
<b>Email:</b>	barthz@seedip.com
<b>Correspondent Name:</b>	SEED IP LAW GROUP
<b>Address Line 1:</b>	701 5TH AVENUE

**PATENT**

**Address Line 2:** SUITE 5400  
**Address Line 4:** SEATTLE, WASHINGTON 98104

**ATTORNEY DOCKET NUMBER:** 364074.401

**NAME OF SUBMITTER:** MICHAEL P. COOPER

**SIGNATURE:** /Michael P. Cooper/

**DATE SIGNED:** 10/09/2018

**Total Attachments: 7**

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## ASSIGNMENT

WHEREAS, Shengde Wu is being added as a joint inventor of invention(s) as described and claimed in the specification for which applications for United States and foreign letters patents were filed, as listed in Appendix A;

WHEREAS, Shengde Wu had an obligation to assign and has now assigned said invention(s) to The Procter & Gamble Company (hereinafter "ASSIGNOR"), an Ohio corporation having a place of business at 1 P&G Plaza, Cincinnati, Ohio 45202;

WHEREAS, ASSIGNOR is under an obligation to assign said invention(s) to Warner Chilcott Company, LLC, a Puerto Rico corporation having offices at Union Street, KMI.1 Fajardo, Puerto Rico 00738, and its lawful successors and assigns (hereinafter collectively "ASSIGNEE"), and ASSIGNOR hereby acknowledges its obligation to assign said invention(s) to ASSIGNEE;

WHEREAS, ASSIGNEE is desirous of acquiring the entire right, title and interest in and to said invention(s);

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE, the entire right, title and interest, and any future right, title and interest, in and to said invention(s), said applications and any and all letters patents which may be granted for said invention(s) in the United States of America and its territorial possessions including any extensions or adjustments in term thereof and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States applications to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, and including the right to sue and collect damages for past and present infringement of said letters patents; said invention(s), applications and all letters patents on said invention(s) to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patents on said invention(s) to ASSIGNEE. ASSIGNOR agrees to

execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patents on said invention(s), for litigation regarding said letters patents, or for the purpose of protecting title to said invention(s) or letters patents therefor.

**THE PROCTER & GAMBLE COMPANY**

6-21-2018  
Date

  
(Signatory Signature)

Manager - GPS  
(Signatory Name, Title)

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WARNER CHILCOTT COMPANY, LLC

6-26-18  
Date

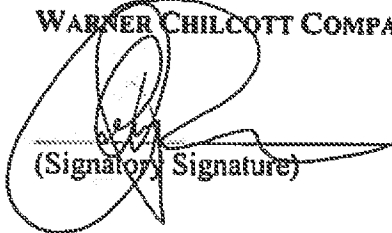
Staci Julie (Assignee)  
(Signatory Signature)

Staci Julie SVP & Chief IP Counsel  
(Signatory Name, Title)

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WARNER CHILCOTT COMPANY, LLC

6-27-18  
Date

  
(Signatory) Signature (Assignee)

Colman Rogers VP & General Counsel  
(Signatory Name, Title)

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## APPENDIX A

### Applications and Letters Patent

Country	Application No.	Filing/Entry Date	Patent No.	Grant Date
Australia	AU 2010314973	May 31, 2012	AU 2010314973	December 11, 2014
Australia	AU 2010314976	May 31, 2012	AU 2010314976	June 19, 2014
Australia	AU 2010314982	May 31, 2012	AU 2010314982	December 12, 2013
Brazil	BR 2012-1120120107593	November 5, 2010	---	---
Brazil	BR 2012-1120120107623	November 5, 2010	---	---
Brazil	BR 2012-1120120107666	November 5, 2010	---	---
Canada	CA 2774039	March 12, 2012	---	---
Canada	CA 2774043	March 12, 2012	CA 2774043	April 14, 2015
Canada	CA 2774046	March 12, 2012	CA 2774046	September 20, 2016
China	CN 201080050210.1	November 5, 2010	ZL201080050210.1	February 17, 2016
China	CN 201080050181.9	November 5, 2010	ZL201080050181.9	February 19, 2014
China	CN 201080050212.0	November 5, 2010	ZL201080050212.0	November 26, 2014
Europe	EP 10829174.1	November 5, 2010	EP 2 496 082	October 12, 2016
Europe	EP 10829176.6	November 5, 2010	EP 2 496 236	May 1, 2013
Europe	EP 10829180.8	November 5, 2010	EP 2 496 084	June 10, 2015
Europe	EP 13165749.6	November 5, 2010	EP 2 649 998	March 4, 2015
Europe	EP 14193060.2	November 5, 2010	EP 2 853 265	July 26, 2017
Europe	EP 15154363.4	November 5, 2010	---	---
Europe	EP 15164257.6	November 5, 2010	---	---
Hong Kong	HK 2012/110021	October 11, 2012	HK 1169275	May 6, 2016
Hong Kong	HK 2012-110019	October 11, 2012	HK 1169274	January 12, 2018
Hong Kong	HK 2012-110020	October 11, 2012	HK 1169313	August 9, 2013
Hong Kong	HK 2014-103621	April 16, 2014	HK 1190334	January 8, 2016
Hong Kong	HK 2015-109530	September 29, 2015	---	---
India	IN 4940/DELNP/2012	June 5, 2012	---	---
India	IN 4949/DELNP/2012	June 5, 2012	---	---
India	IN 4950/DELNP/2012	June 5, 2012	---	---
Indonesia	ID 2012-W1897	November 5, 2010	---	---
Indonesia	ID 2012-W1898	November 5, 2010	---	---
Indonesia	ID 2012-W1899	November 5, 2010	IDP000037760	January 23, 2015
Israel	IL 219610	May 6, 2012	IL 219610	October 31, 2015
Israel	IL 219611	May 6, 2012	IL 219611	July 1, 2017
Israel	IL 219612	May 6, 2012	IL 219612	March 1, 2017
Israel	IL 239918	July 13, 2015	---	---

Japan	JP 2012537236	April 27, 2012	JP 5627040	October 10, 2014
Japan	JP 2012537237	April 27, 2012	JP 5599467	August 22, 2014
Japan	JP 2012537240	April 27, 2012	JP 5591939	August 8, 2014
Japan	JP 2014045733	March 7, 2014	JP 5865411	January 8, 2016
Japan	JP 2014045734	March 7, 2014	---	---
Japan	JP 2014155145	July 30, 2014	JP 5961665	July 1, 2016
Malaysia	MY 2012-1216	November 5, 2010	MY 160066	February 15, 2017
Malaysia	MY 2012-1217	November 5, 2010	MY 163511	September 15, 2017
Malaysia	MY 2012-1219	November 5, 2010	MY 161880	May 15, 2017
Mexico	MX/a/2012/005273	May 4, 2012	---	---
Mexico	MX/a/2012/005274	May 4, 2012	MX 315122	November 7, 2013
Mexico	MX/a/2012/005275	May 4, 2012	MX 330753	June 12, 2015
Mexico	MX/a/2013/009454	November 5, 2010	---	---
New Zealand	NZ 600405	November 5, 2010	600405	December 2, 2014
New Zealand	NZ 600396	November 5, 2010	600396	December 2, 2014
New Zealand	NZ 600400	November 5, 2010	600400	January 6, 2015
New Zealand	NZ 629733	November 5, 2010	629733	May 27, 2016
PCT	PCT/US2010/055691	November 5, 2010	---	---
PCT	PCT/US2010/055694	November 5, 2010	---	---
PCT	PCT/US2010/055704	November 5, 2010	---	---
Philippines	PH 12012500788	April 20, 2012	PH 12012500788	June 6, 2016
Philippines	PH 12012500789	April 20, 2012	PH 12012500789	September 2, 2014
Philippines	PH 12012500790	April 20, 2012	---	---
Russia	RU 2012123386	June 6, 2012	RU 2521251	June 27, 2014
Russia	RU 2012123387	June 6, 2012	RU 2518071	June 10, 2014
Russia	RU 2012123388	June 6, 2015	RU 2518416	June 10, 2014
Singapore	SG 201203017	November 5, 2010	SG 180528	December 22, 2014
Singapore	SG 201203018-5	November 5, 2010	SG 180529	May 4, 2017
Singapore	SG 201203034	November 5, 2010	SG 180541	December 9, 2014
South Africa	ZA 2012-4102	June 5, 2012	ZA 2012004102	August 28, 2013
South Africa	ZA 2012-4103	November 5, 2010	ZA 2012004103	August 28, 2013
South Africa	ZA 2012-4104	November 5, 2010	ZA 2012004104	February 27, 2013
South Korea	KR 10-2012-7014419	June 4, 2012	KR 1445946	September 23, 2014
South Korea	KR 10-2012-7014454	June 4, 2012	KR 1483831	January 12, 2015
South Korea	KR 10-2012-7014522	June 4, 2012	---	---
South Korea	KR 10-2014-7008577	June 4, 2012	---	---
South Korea	KR 10-2014-7017414	June 24, 2014	---	---
South Korea	KR 10-2014-7026829	September 24, 2014	---	---
South Korea	KR 10-2015-7001507	January 20, 2015	KR 1613103	April 11, 2016



South Korea	KR 10-2015-7026346	September 23, 2015	KR 1591701	January 29, 2016
Thailand	1201001909	November 5, 2010	---	---
Thailand	1201001908	November 5, 2010	---	---
Thailand	1201001910	November 5, 2010	---	---
USA	US 12/940,883	November 5, 2010	US 8,778,412	July 15, 2014
USA	US 12/940,891	November 5, 2010	US 8,536,181	September 17, 2013
USA	US 12/940,901	November 5, 2010	US 8,309,537	November 13, 2012
USA	US 13/768,308	February 15, 2013	US 9,045,495	June 2, 2015
USA	US 13/770,135	February 19, 2013	US 8,883,774	November 11, 2014
USA	US 14/465,027	August 21, 2014	US 8,999,971	April 7, 2015
USA	US 14/628,261	February 22, 2015	US 9,278,930	March 8, 2016
USA	US 14/688,216	April 16, 2015	US 9,540,326	January 10, 2017
USA	US 15/366,437	December 1, 2016	---	---
USA	US 15/900,447	February 20, 2018	---	---
USA	US 61/258,914	November 6, 2009	---	---
USA	US 61/258,918	November 6, 2009	---	---
Vietnam	VN 2012-1413	November 5, 2010	---	---
Vietnam	VN 2012-1414	November 5, 2010	---	---
Vietnam	VN 2012-1415	November 5, 2010	---	---

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