PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARK P. MATHISON	08/03/2018

RECEIVING PARTY DATA

Name:	KILPATRICK TOWNSEND & STOCKTON LLP	
Street Address:	1100 PEACHTREE STREET	
Internal Address:	SUITE 2800	
City:	ATLANTA	
State/Country:	GEORGIA	
Postal Code:	30309	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16054822

CORRESPONDENCE DATA

Fax Number:

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.

Email: ipefiling@kilpatricktownsend.com

Correspondent Name: NESLIHAN ICLAL DORAN

Address Line 1: KILPATRICK TOWNSEND & STOCKTON LLP Address Line 2: 1100 PEACHTREE STREET, SUITE 2800

Address Line 4: ATLANTA, GEORGIA 30309

ATTORNEY DOCKET NUMBER:	999985-1092186-000400US	
NAME OF SUBMITTER:	IE OF SUBMITTER: SVETLANA GUEVARA	
SIGNATURE:	/Svetlana Guevara/	
DATE SIGNED:	10/09/2018	

Total Attachments: 2

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PATENT 505133551 REEL: 047111 FRAME: 0565

ASSIGNMENT (Patent Application)

I, the undersigned, have invented certain inventions and improvements disclosed in a utility non-provisional patent application entitled

"GRAPHICALLY REPRESENTING RELATED PATENT FAMILIES USING A PHANTOM PARENT NODE,"

the specification of which is provided with this Assignment and identified by the Attorney Docket No. above. (Serial No. 16/054,822 filed on August 3, 2018)

For one dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which I acknowledge, I:

- 1. Agree to assign, transfer, convey, and sell, hereby assign, transfer, convey, and sell and have assigned, transferred, conveyed, and sold to Kilpatrick Townsend & Stockton LLP, a limited liability partnership, having a principal place of business at 1100 Peachtree Street, Suite 2800, Atlanta, Georgia 30309 ("Assignee"), the entire right, title, and interest in and to:
 - (a) all intellectual property (including, without limitation, any innovation, information, invention, discovery, product, process, work or design) disclosed, embodied, shown, or claimed in the above-referenced patent application, implicitly or explicitly;
 - (b) the above-referenced patent application, and all applications based in whole or in part upon the above-referenced patent application, including, without limitation, all applications that are a provisional, non-provisional, design, divisional, continuation, continuation-in-part, registration, utility model, industrial design, reissue, renewal, substitute, extension, reexamination, post-grant review, inter partes review, supplemental examination or non-U.S. patent application or application for other rights based in whole or in part on the above-referenced patent application;
 - (c) the right to claim priority to the above-referenced patent application, and any and all applications referenced in subsection (b); and
 - (d) all patents (including, without limitation, all U.S. and non-U.S. patents, registrations, utility models, industrial designs, design patents, counterparts, continuations, continuations-in-part, divisionals, reissues, renewals, substitutes, extensions, reexaminations, post-grant reviews, inter partes reviews and supplemental examinations) that are granted or issued upon, or that claim priority to, any and all applications described in (b) of this paragraph or that disclose or claim intellectual property described in (a) of this paragraph, in whole or in part; and
 - (e) all claims for damages by reason of past infringement of any rights under the applications or patents described in (a), (b) or (c) of this paragraph (including

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ASSIGNMENT GRAPHICALLY REPRESENTING RELATED PATENT FAMILIES USING A PHANTOM PARENT NODE Attorney Docket No. 999985-1092186-000400US Page 2 of 2

provisional rights to reasonable royalties pursuant to 35 U.S.C. §154(d)) and the right to sue for and collect such damages and royalties for Assignee's own use.

- 2. Authorize and request the U.S. Patent and Trademark Office or any other U.S. or non-U.S. agency to issue to the Assignee any and all patent(s), or other rights or documents, resulting from the intellectual property, patent application(s) and patents described in paragraph 1 of this Assignment.
- 3. Agree to sign all papers and documents, including without limitation, applications, declarations, oaths and petitions, and, at the Assignee's expense, perform any other acts that are necessary in connection with prosecution of patent application(s) or intellectual property described in paragraph 1 of this Assignment and the enforcement of patent(s) or other rights resulting from such patent application(s) or intellectual property.
- 4. Agree that the terms, covenants, and conditions of this Assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon me, as well as our my heirs, legal representatives, and assigns.
- 5. Promise and affirm that I have not entered, and will not enter, into any assignment, contract, or understanding that conflicts with this Assignment.
- 6. Authorize Kilpatrick Townsend & Stockton to insert above the application number and filing date of the above-described patent application when known.

Signed on the dates indicated beside my signature,

Signature:

Mark P. Mathison

Date: Aug. 3. 2018

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RECORDED: 10/09/2018