

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5318535

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LOUIS RYAN	01/08/2019
ROBERT CROWE	01/07/2019
STEVEN CHRISTOPHER KELLEY	01/07/2019
JOHN RANDALL	01/07/2019
GANG DING	01/02/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EDGEWAVE, INC.
<b>Street Address:</b>	4225 EXECUTIVE SQUARE
<b>Internal Address:</b>	SUITE 1600
<b>City:</b>	LA JOLLA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92037-1487
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16176791
Application Number:	62579751
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>Email:</b>	IPDocketingBOS@mintz.com
<b>Correspondent Name:</b>	MINTZ, LEVIN, COHN, FERRIS, GLOVSKY AND POPEO, P.C
<b>Address Line 1:</b>	ONE FINANCIAL CENTER
<b>Address Line 2:</b>	MINTZ LEVIN
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02111
<b>ATTORNEY DOCKET NUMBER:</b>	038202-502001US
<b>NAME OF SUBMITTER:</b>	SUSAN TELFORD
<b>SIGNATURE:</b>	/Susan Telford/
<b>DATE SIGNED:</b>	01/10/2019

**Total Attachments: 2**

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First Inventor : Louis Ryan  
Application No.: 16/176,791  
Filed : October 31, 2018  
Page 2 of 2

We hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

We further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and ASSIGNORS will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: 1/8/2019 | 9:20:57 AM PST

Digitally signed by:  
Louis Ryan  
DN: cn=Louis Ryan

Date: 1/9/19

[Signature]  
Robert Crowe

Date: 1/7/19

[Signature]  
Steven Christopher Kelley

Date: 1/7/19

[Signature]  
John Randall

Date: 2/7/19

[Signature]  
Gang Ding

## ASSIGNMENT

We, **Louis Ryan, Robert Crowe, Steven Christopher Kelley, John Randall, and Gang Ding**, the undersigned, hereinafter referred to as the ASSIGNORS, for good and valuable consideration, the receipt of which is hereby acknowledged, confirm that we have sold and assigned, and do hereby assign, sell and transfer to **Edgewave, Inc.**, with an office at 4225 Executive Square, Suite 1600, La Jolla, CA 92037-1487, and to its successors, assigns and legal representatives, collectively hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for United States Letters Patent entitled:

### ANALYSIS AND REPORTING OF SUSPICIOUS EMAIL

filed with the U.S. Patent and Trademark Office on **October 31, 2018** and assigned Application No. **16/176,791**, including any subsequently filed utility applications, which claim priority to Application No. **62/579,751**, filed **October 31, 2017** and including any renewals, revivals, reissues, reexaminations, extensions, continuations, continuations-in-part, request for continued examinations and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names as the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications as well as the right to sue for and collect damages for past infringements.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, continuations-in-part, request for continued examinations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

**PATENT**