

## PATENT ASSIGNMENT COVER SHEET

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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>
JUNFENG YANG	06/22/2017
YOUNGHOON JEON	06/22/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK
<b>Street Address:</b>	412 LOW MEMORIAL LIBRARY
<b>Internal Address:</b>	535 WEST 116TH STREET
<b>City:</b>	NEW YORK
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10027
<b>PROPERTY NUMBERS Total: 4</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14922977
<b>Application Number:</b>	61871075
<b>Application Number:</b>	61816461
<b>PCT Number:</b>	US2014035655
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(212)408-2501
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<b>Address Line 4:</b>	NEW YORK, NEW YORK 10112-4498
<b>ATTORNEY DOCKET NUMBER:</b>	070050.5647
<b>NAME OF SUBMITTER:</b>	CHANELLE ROGERS
<b>SIGNATURE:</b>	/Chanelle Rogers/
<b>DATE SIGNED:</b>	07/12/2017

**Total Attachments: 3**

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*Junfeng Yang* ASSIGNMENT

WHEREAS, WE, Junfeng Yang, a citizen of the China (People's Republic), having a residence address at 2828 Broadway, Apt 9C, New York, NY 10025, and Younghoon Jeon, a citizen of Korea (Republic of), having a residence address at 800 Park Ave. Apt 612, Fort Lee, NJ 07024, (hereinafter "ASSIGNORS"), have made an invention entitled "SYSTEMS AND METHODS FOR MOBILE APPLICATIONS" as set forth and described in U.S. Application No. 14/922,977, filed October 26, 2015; International Application No. PCT/US2014/035655, filed April 28, 2014; United States Provisional Application No. 61/871,075, filed August 28, 2013; United States Provisional Application No. 61/816,461, filed April 26, 2013; and

WHEREAS, THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK (hereinafter "ASSIGNEE"), having its principal place of business at 412 Low Memorial Library, 535 West 116th Street, New York, NY, 10027, is desirous of acquiring the whole right, title and interest in and to said application for Letters Patent, and any continuations, divisions, extensions, substitutions, reissues and reexaminations thereof;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that I, the said ASSIGNORS, for and in consideration of valuable considerations unto us moving from said ASSIGNEE, at or before the en sealing and delivery of these presents, the receipt and sufficiency of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to the said invention entitled "SYSTEMS AND METHODS FOR MOBILE APPLICATIONS" and any and all improvements thereto, and in and to said application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, and in and to any other applications based in whole or in part on any of the foregoing, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND WE, the said ASSIGNORS, do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said ASSIGNEE, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said ASSIGNEE, its successors and assigns;

AND WE, the said ASSIGNORS, for the considerations aforesaid, do hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that we have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that we, our executors or administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said ASSIGNEE, its successors and assigns, may be required or necessary more effectively to secure to and vest in said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to said invention and

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improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

IN WITNESS WHEREOF, I, the said **ASSIGNOR** have executed this Assignment this 23<sup>rd</sup> day of June, 2017.  
Y.J.



Junfeng Yang

Junfeng Yang



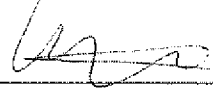
Witness Signature

Thomas Huzij

Witness Name

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IN WITNESS WHEREOF, I, the said **ASSIGNOR** have executed this Assignment this  
22nd day of June, 2017.



\_\_\_\_\_  
**Younghoon Jeon**

Younghoon Jeon



\_\_\_\_\_  
Witness Signature

Thomas Huzij

\_\_\_\_\_  
Witness Name