

## PATENT ASSIGNMENT COVER SHEET

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KYUNGHAN LEE	04/22/2014
INJONG RHEE	09/24/2014
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14349552
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<b>ATTORNEY DOCKET NUMBER:</b>	297/252/4 PCT/US
<b>NAME OF SUBMITTER:</b>	GREGORY A. HUNT
<b>SIGNATURE:</b>	/Gregory A. Hunt/
<b>DATE SIGNED:</b>	10/09/2014
<b>Total Attachments: 4</b>	
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<b>PATENT</b>	

PATENT

Atty. Docket No.: 297/252/4 PCT/US

ASSIGNMENT

WHEREAS, we, Kyunghan Lee of Cary, North Carolina and Injong Rhee of Apex, North Carolina (hereinafter "Assignors"), have invented certain new and useful improvements in RECEIVER-BASED METHODS, SYSTEMS, AND COMPUTER READABLE MEDIA FOR CONTROLLING TCP SENDER BEHAVIOR IN CELLULAR COMMUNICATIONS NETWORKS WITH LARGE BUFFER SIZES (hereinafter "Invention") for which application for a U.S. Patent was made on April 3, 2014 as Serial No. 14/349,552 (hereinafter "Application"), and claims priority to International Patent Application No. PCT/US2012/058731 filed October 4, 2012, which claims priority to U.S. Provisional Patent Application Serial No. 61/543,128 filed October 4, 2011 and U.S. Provisional Patent Application Serial No. 61/648,056 filed May 16, 2012.

AND, WHEREAS, North Carolina State University, a non-profit organization located at Raleigh, North Carolina (hereinafter "Assignee"), is desirous of acquiring an interest therein.

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors have sold and by these presents do hereby sell, assign, transfer and convey unto the Assignee, its successors and assigns, their entire right, title and interest in and to the Invention and Application, and in and to any and all foreign patent applications filed on the Invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon (hereinafter, "Patents"), for the full end of the term for which said Letters Patent may be granted, together with their right to claim the priority of the Application in all countries in accordance with the Paris Convention, the Patent Cooperation Treaty, or other agreement or national law under which priority can be claimed, the same to be held and enjoyed by said Assignee, its

successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this Assignment and sale had not been made. It is expressly agreed by Assignors and Assignee that this Assignment fully conveys and transfers from Assignors to Assignee the right to sue for any and all patent infringement occurring prior to the date of this Assignment.


Assignors hereby request that said Letters Patent be issued in accordance with this Assignment.

Assignors further covenant and agree that, at the time of the execution and delivery of these presents, Assignors possess the unencumbered right and authority to make this Assignment.

Assignors further covenant and agree, and likewise bind their heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to them relating to the Invention, to testify and/or assist as requested by the Assignee in any interference or legal proceedings involving the Application, Patents, or Invention, including cooperating in any enforcement proceedings involving the Application, Patents, or Invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the Invention in all countries and to vest in the Assignee complete title to the Invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

Atty. Docket No.: 297/252/4 PCT/US

Executed this 22 day of April 2014.

  
\_\_\_\_\_  
Kyunghan Lee

Witnessed by:

Yeo cheon YUN 2014/04/22  
Name Date

Ki Beom Kim 2014/04/22  
Name Date

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Executed this \_\_\_\_\_ day of \_\_\_\_\_ 2014.

\_\_\_\_\_  
Injong Rhee

Witnessed by:

\_\_\_\_\_  
Name Date

\_\_\_\_\_  
Name Date

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Atty. Docket No.: 297/252/4 PCT/US

Executed this \_\_\_\_\_ day of \_\_\_\_\_ 2014.

\_\_\_\_\_  
Kyunghan Lee

Witnessed by:

\_\_\_\_\_  
Name Date

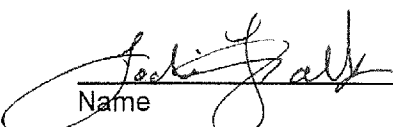
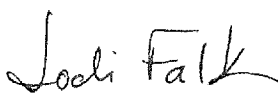
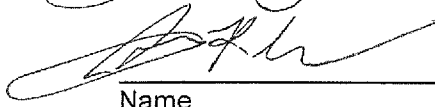
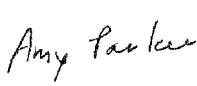
\_\_\_\_\_  
Name Date

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Executed this 24 day of September 2014.

  
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Injong Rhee

Witnessed by:

 9-24-2014   
Name Date  
 9/24/14   
Name Date

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