

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>SEQUENCE:</b>	2
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DOCOMO INNOVATIONS, INC.	05/27/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NTT DOCOMO, INC.
<b>Street Address:</b>	Sanno Park Tower, 11-1
<b>Internal Address:</b>	Nagata-Cho, 2-chome
<b>City:</b>	Chiyoda-ku, Tokyo
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	100-6150
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14731196
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<b>SIGNATURE:</b>	/Michael J. Mallie/
<b>DATE SIGNED:</b>	06/17/2015
<b>Total Attachments: 1</b>	
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ASSIGNMENT OF U.S. PATENT APPLICATION

For good and valuable consideration, the receipt of which is hereby acknowledged, DOCOMO Innovations, Inc., a corporation of Delaware, (the "Assignor") having a place of business at 3240 Hillview Avenue, Palo Alto, California 94304, hereby sells, assigns, and transfers to NTT DOCOMO, Inc., a corporation of Japan, having a principal place of business at Sanno Park Tower, 11-1, Nagata-cho, 2-chome, Chiyoda-ku, Tokyo 100-6150, Japan, (the "Assignee"), its successors and assigns the entire right, title and interest throughout the world in the inventions, discoveries, improvements, or designs in United States Patent Application Number \_\_\_\_\_ filed \_\_\_\_\_, entitled "TRANSCIEVERS AND METHODS FOR USE IN TRANSMITTING INFORMATION IN A MASSIVE MIMO SYSTEM," and in and to all patent applications and letters patents (including, but not limited to, utility patents, design patents, utility models, inventor certificates, and applications thereof) of every country for such inventions, discoveries, improvements, or designs including all divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application.

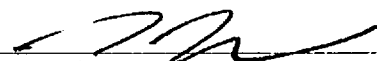
The Assignor agrees that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives.

Assignor covenants with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possess by the undersigned.

The Assignor hereby requests the Commissioner for Patents and Trademarks to issue all patents granted for such inventions, discoveries, improvements, or designs to the Assignee, its successors and assigns.

Executed this 27 day of May, 2015

DOCOMO Innovations, Inc.  
A corporation of Delaware

By:   
Takayuki Inagawa

Print Title: Chief Executive Officer

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