

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Haralabos Papadopoulos</td> <td>11/09/2011</td> </tr> <tr> <td>Sean A. Ramprashad</td> <td>11/07/2011</td> </tr> <tr> <td>Giuseppe Caire</td> <td>12/02/2011</td> </tr> </tbody> </table>		Name	Execution Date	Haralabos Papadopoulos	11/09/2011	Sean A. Ramprashad	11/07/2011	Giuseppe Caire	12/02/2011
Name	Execution Date								
Haralabos Papadopoulos	11/09/2011								
Sean A. Ramprashad	11/07/2011								
Giuseppe Caire	12/02/2011								
RECEIVING PARTY DATA									
Name:	DOCOMO Innovations, Inc.								
Street Address:	3240 Hillview Avenue								
City:	Palo Alto								
State/Country:	CALIFORNIA								
Postal Code:	94304								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13288241</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13288241				
Property Type	Number								
Application Number:	13288241								
CORRESPONDENCE DATA									
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ATTORNEY DOCKET NUMBER:	06655.P199								
NAME OF SUBMITTER:	Michael J. Mallie								
Total Attachments: 2 source=6655P199_Assignment#page1.tif source=6655P199_Assignment#page2.tif									

CH \$40.00 13288241

ASSIGNMENT OF PATENT APPLICATION

Attorney Docket No.: 06655.P199

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, Haralabos Papadopoulos, Sean A. Ramprashad, Giuseppe Caire, hereby sell, assign, and transfer to DOCOMO Innovations, Inc.

a corporation of Deleware
(Type of Assignee: e.g., corporation, company, partnership, university, etc.)
having a principal place of business at 3240 Hillview Avenue, Palo Alto, California 94304, USA

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled

METHOD AND APPARATUS FOR THE JOINT DESIGN AND OPERATION OF SCHEDULING AND PILOT-REUSE FOR DOWNLINK MULTI-USER MIMO WITH RECIPROCITY-BASED TRAINING.

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 13/288,241 filed November 3, 2011,

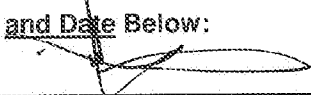
and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute 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 inventions or 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 inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, 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 inventions or 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 inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant 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 possessed by the undersigned.

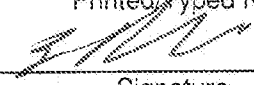
Each Inventor: Please Sign and Date Below:

Nov. 9, 20 11
Date


Signature

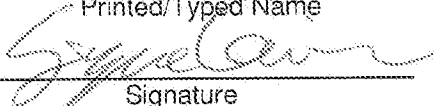
Haralabos Papadopoulos
Printed/Typed Name

Nov 7, 20 11
Date


Signature

Sean A. Ramprashad
Printed/Typed Name

Dec. 2, 20 11
Date


Signature

Giuseppe Calre
Printed/Typed Name

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