502731275 03/20/2014

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SEONG-WOOK SONG	03/19/2014
HYUNG-JONG KIM	03/19/2014
JONG-HAN LIM	03/19/2014

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU
City:	SUWON-SI, GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14220756

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	0202-0923	
NAME OF SUBMITTER:	JAMES J. LIVINGSTON	
SIGNATURE:	/James J. LIVINGSTON/	
DATE SIGNED:	03/20/2014	

Total Attachments: 4

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PATENT 502731275 REEL: 032488 FRAME: 0011

Form **PTO-1595** (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008)

RECORDATION FORM COVER SHEET PATENTS ONLY To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. 1. Name of conveying party(ies) 2. Name and address of receiving party(ies) Name: Samsung Electronics Co., Ltd. 1) Seong-Wook SONG, 2) Hyung-Jong KIM, and 3) Jong-Han LIM Internal Address: Additional name(s) of conveying party(ies) attached? Yes 🖊 No 3. Nature of conveyance/Execution Date(s): Street Address: 129, Samsung-ro, Yeongtong-gu Execution Date(s) March 19, 2014 Merger ✓ Assignment City: Suwon-si, Gyeonggi-do Security Agreement Change of Name __ Joint Research Agreement Government Interest Assignment Country: Republic of Korea Zip: Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? Yes No 4. Application or patent number(s): This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s) 14/220,756 Additional numbers attached? Yes V No 5. Name and address to whom correspondence 6. Total number of applications and patents concerning document should be mailed: involved: One Name: Jefferson IP Law, LLP **7. Total fee** (37 CFR 1.21(h) & 3.41) \$ Internal Address: James J. Livingston Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed Street Address: 1130 Connecticut Ave., NW, Suite 420 None required (government interest not affecting title) 8. Payment Information City: Washington a. Credit Card Last 4 Numbers _____ State: DC Zip:20036 Expiration Date _____ Phone Number: 202-293-0804 b. Deposit Account Number Fax Number: 202-403-3587 Authorized User Name _____ Email Address: usdocketing@jeffersonip.com 9. Signature: /James J. LIVINGSTON/ Reg. No. 55,394 March 20, 2014 Signature Date Total number of pages including cover James J. Livingston Name of Person Signing sheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

REEL: 032488 FRAME: 0012

DOCKET NO.: 0202-0923

CLIENT REF.: SPI3271-US_DMC

SAMSUNG REF.: GM-201307-045-1-US0

<u>Assignment</u>

WHEREAS, the following inventors, namely 1) Seong-Wook SONG, 2) Hyung-Jong KIM, and 3) Jong-Han LIM, all, citizens of the Republic of Korea (hereinafter called "Assignors"), having made or discovered certain new, useful and non-obvious improvements in an invention having a working title of:

APPARATUS AND METHOD FOR CONTROLLING TRANSMISSION FOR DEVICE TO DEVICE (D2D) COMMUNICATION IN WIRELESS COMMUNICATION SYSTEM,

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on March 20, 2014 and assigned Serial No. 14/220,756 and,

WHEREAS, Samsung Electronics Co., Ltd., a corporation duly organized under the laws of the Republic of Korea, located and doing business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyoonggi-do, Republic of Korea, 443-742 (hereinafter called "Assignee"), is desirous of acquiring the entire right, title and interest therein;

NOW, THEREFORE, BE IT KNOWN that for and in good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors do hereby sell, assign and transfer unto said Assignee the entire and exclusive worldwide right, title and interest in and to all said inventions and discoveries disclosed in said application, and in and to said application, any and all substitutions, divisions, provisionals, conversions of provisionals and continuations thereof, and in and to all Letters Patent, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals and reissues thereof; and the right to file any foreign application and/or claim priority under the provisions of any international treaty or convention arising from this application or any divisional, continuing, substitute or reissue application therefrom. The aforesaid assignment includes the right in and to all income, royalties, damages and payments, now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by Assignors if this sale, assignment and transfer had not been made.

Assignors covenant and agree, without further compensation to said Assignors but at Assignee's expense:

a. to execute:

 all papers to be used in connection with this application and any divisional, continuing, substitute or reissue application thereof, as the Assignee may deem necessary or expedient, and DOCKET NO.: 0202-0923

CLIENT REF.: SP13271-US_DMC

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- ii. all papers in connection with any interference, litigation, mediation, arbitration or other proceeding relating to this application or any divisional, continuing, substitute or reissue application thereof, as may be necessary or expedient;
- b. to cooperate with the Assignee in every way possible in obtaining evidence and going forward in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof;
- c. to communicate to the Assignee any facts relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof, including evidence for any interference, litigation, mediation, arbitration or other proceeding relating to said invention, whenever requested;
- d. to testify in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof whenever requested; and
- e. to perform all other affirmative acts which may be necessary or desirable to secure full and complete protection of the inventions and discoveries or that may be necessary or desirable to vest in Assignee the complete title to the inventions and discoveries and Letters Patent hereby conveyed and to enable Assignee to record title.

Assignors hereby authorize and request the United States Patent and Trademark Office or any other issuing authority to issue any and all Letters Patent that may be granted upon this invention and/or this application or any divisional, continuing, substitute or reissue application thereof to the Assignee, its legal representatives, successors and assigns.

Assignors each hereby represents, covenants and warrants that he or she has the full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

The provisions of this Assignment are binding upon Assignors' heirs, legal representatives and/or administrators and assigns.

Assignors hereby grant to the law firm of Jefferson IP Law, LLP of Washington, DC and its attorneys and agents as associated with Customer No. 68103 the authority and power to insert on this instrument any further identification which may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

DOCKET NO.: 0202-0923

CLIENT REF.: SP13271-US_DMC

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Signature of Inventor:

Seong-Wook SONG

March 19, 2014

Date

Signature of Inventor:

Hyung-Jong KIM

March 19, 2014

Date

Signature of Inventor:

John LIM

Marchia, 2014

Date