PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| MIN SAGONG | 04/15/2014 |
| WON-IL ROH | 04/15/2014 |
| JEONG-HO PARK | 04/15/2014 |
| JI-YUN SEOL | 04/15/2014 |
| HYUN-KYU YU | 04/15/2014 |
| CHI-WOO LIM | 04/15/2014 |
| KYUNG-WHOON CHEUN | 04/15/2014 |
| JAE-WEON CHO | 04/15/2014 |
| SUNG-NAM HONG | 04/15/2014 |

RECEIVING PARTY DATA

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| Street Address: | 129, SAMSUNG-RO | |
| Internal Address: | YEONGTONG-GU, SUWON-SI | |
| City: | GYEONGGI-DO | |
| State/Country: | KOREA, REPUBLIC OF | |
| Postal Code: | 443-742 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14253812 |

CORRESPONDENCE DATA

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NAME OF SUBMITTER: WILLIAM A. MUNCK

PATENT

502769043 REEL: 032681 FRAME: 0075

| SIGNATURE: | /William A. Munck/ | |
|--------------------------------|--------------------|--|
| DATE SIGNED: 04/15/2014 | | |
| Total Attachments: 2 | | |
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| source=Assignment#page2.tif | | |

PATENT REEL: 032681 FRAME: 0076

ASSIGNMENT

WHEREAS, We, Min Sagong, resident of Suwon-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Won-Il Roh, resident of Yongin-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Jeong-Ho Park, resident of Seocho-gu, Seoul, Republic of Korea, citizen of Republic of Korea, Ji-Yun Seol, resident of Seongnam-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Hyun-Kyu Yu, resident of Suwon-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Chi-Woo Lim, resident of Suwon-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Kyung-Whoon Cheun, resident of Gangnam-gu, Seoul, Republic of Korea, citizen of Republic of Korea, Jae-Weon Cho, resident of Seongnam-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, and Sung-Nam Hong, resident of Anyang-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, have invented certain useful improvements in a "METHOD AND **APPARATUS** TRANSMITTING/RECEIVING SIGNAL IN WIRELESS COMMUNICATION SYSTEM" disclosed in an application for United States Letters Patent (Application Serial No. __/_ filed on ______, said application having been executed concurrently herewith;

WHEREAS, SAMSUNG ELECTRONICS CO., LTD, a corporation organized under the laws of the Republic of Korea, having a place of business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742, Republic of Korea (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring our entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; We authorize William A. Munck of Munck Wilson Mandala, LLP to insert in the parenthesis above the application number and filing date of said application when known; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in

ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, and make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

| Date: | April 15. 2014 | JABO . |
|---------|----------------|-------------------|
| | | Min Sagong |
| Date: _ | April 15, 2014 | 2AS |
| | | Won-Il Roh |
| Date: | April 15. 2014 | JOONGHO PARK |
| | | Jeong-Ho Park |
| Date: | April 15, 2014 | |
| | | Ji-Yun Seol |
| Date: _ | April 15.2014 | |
| | | Hyun-Kyu Yu |
| Date: | April 15.2014 | A |
| | | Chi-Woo Lim |
| Date: | April 15.2014 | Ol |
| | | Kyung-Whoon Cheun |
| Date: _ | April 15. 2014 | Jae-Weon Cho |
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| Date: | April 15.2014 | hos |
| | | Sung-Nam Hong |