## 502133423 11/19/2012

### PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
Jae Sup LEE	11/14/2012
Seong Joong KIM	11/14/2012
Sang Wook NAM	11/14/2012
Su Min YUN	11/14/2012

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### PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	13680313	

### **CORRESPONDENCE DATA**

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**PATENT** 

REEL: 029319 FRAME: 0798

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ATTORNEY DOCKET NUMBER:	012052.0610			
NAME OF SUBMITTER:	Loren H. Tung			
Total Attachments: 2 source=NewApp_0120520610_AssignmentExecutedSerialNo#page1.tif source=NewApp_0120520610_AssignmentExecutedSerialNo#page2.tif				

PATENT REEL: 029319 FRAME: 0799

#### ASSIGNMENT

For valuable consideration, we,

Jae Sup LEE 203-803 Woorim Apt., Gomae-dong, Gibeung-gu, Yongin-

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Sang Wook NAM 3-1006 Imgwang Apt., 1015 Bangbae-dong, Seocho-gu,

Seoul 137-060, Republic of Korea

Su Min YUN 133-1104 Hvangchon Jugong Apt., Mansu 2-dong,

Namdong-gu, Incheon 405-744, Republic of Korea

hereby assign to:

SAMSUNG ELECTRONICS CO., LTD., a Republic of Korea corporation having principal executive offices or a place of business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742, Republic of Korea, and

SNU R&DB FOUNDATION, a Republic of Korea foundation having principal executive offices or a place of business at San 56-1, Sillim-dong, Gwanak-gu, Seoul, 151-015 Republic of Korea,

and their successors and assigns (collectively bereinafter called "the Assignees"), the entire right, title and interest throughout the world in the inventions and improvements that are the subject of U.S. Patent Application Number 13/680,313 filed November 19, 2012 in the U.S. Patent & Trademark Office, signed by us and entitled:

## ANTENNA HAVING BROAD BANDWIDTH AND HIGH RADIATION EFFICIENCY

We authorize and request the attorneys appointed in said application to hereafter complete this Assignment by inserting above the application number and filing date of said application when known, and to correct any typographical errors that may be discovered in this Assignment; this Assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignees to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions

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and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, Assignments, preliminary statements and other lawful documents as the Assignees may reasonably request to effectuate fully this Assignment.

In TESTIMONY/WITNESS WHEREOF, we, the undersigned inventors (Assignors), intending to be legally bound, have hereto affixed our signatures.

This day of	012	Jue Sup LEE
This 14_ day of	012	<u>//./n/7</u> Seong Joong KIM
This <u>14</u> day of1 2	012	Sang Wook NAM
This 14 day of 12,2	012	S. Min VIN

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