PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:		NEW ASSIGNMENT				
NATURE OF CONVEYANCE:			ASSIGNMENT			
CONVEYING PART	Y DATA	J				
Na			ame	Execution Date		
Kyung-Kyu KIM			07/07/2010			
Rakesh TAORI			07/07/2010			
Jae-Jeong SHIM		07/07/2010				
Yeong-Moon SON			07/07/2010			
Hyun-Jeong KANG				07/07/2010		
RECEIVING PARTY	DATA					
Name:	SAMSUNG E	SAMSUNG ELECTRONICS CO., LTD.				
Street Address:	416, Maetan	416, Maetan-dong, Yeongtong-gu				
City:	Suwon-si, Gyeonggi-do					
State/Country:	REPUBLIC OF KOREA					
Property Type Application Number: 128		128314	Number			
CORRESPONDENCE DATA Fax Number: (202)403-3587 Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Phone: 202-293-0804 Email: usdocketing@jeffersonip.com Correspondent Name: Jefferson IP Law, LLP Address Line 1: 1130 Connecticut Ave., NW Address Line 2: Suite 420 Address Line 4: Washington, DISTRICT OF COLUMBIA 20036						
ATTORNEY DOCKET NUMBER:			0202-0385			
NAME OF SUBMITTER:			Whitney Teets			
Total Attachments: 4						

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RECORDATION FORM COVER SHEET PATENTS ONLY						
To the Director of the U.S. Patent and Trademark Office: Please	e record the attached documents or the new address(es) below.					
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)					
1) Kyung-Kyu KIM, 2) Rakesh TAORI, 3) Jae-Jeong SHIM,	Name: Samsung Electronics Co., Ltd.					
4) Yeong-Moon SON, and 5) Hyun-Jeong KANG	Internal Address:					
Additional name(s) of conveying party(ies) attached? Yes 🖌 No 3. Nature of conveyance/Execution Date(s):	Street Address: <u>416, Maetan-dong, Yeongtong-gu</u>					
Execution Date(s) July 7, 2010 Image: Assignment Image: Merger Image: Security Agreement Image: Change of Name Image: Joint Research Agreement Image: Government Interest Assignment	 City: <u>Suwon-si, Gyeonggi-do</u> State:					
Executive Order 9424, Confirmatory License	Country: Republic of Korea Zip:					
4. Application or patent number(s):	Additional name(s) & address(es) attached? Yes 🖌 No					
A. Patent Application No.(s) 12/831,453 Additional numbers at	B. Patent No.(s)					
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: One					
Name:Jefferson IP Law, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$					
Internal Address:George Eckert	Authorized to be charged by credit card					
Street Address: 1130 Connecticut Ave., NW, Suite 420	 Enclosed None required (government interest not affecting title) 					
City: Washington	8. Payment Information					
State: <u>DC</u> Zip: <u>20036</u>	a. Credit Card Last 4 Numbers Expiration Date					
Phone Number: 202-293-0804	b. Deposit Account Number					
Fax Number: <u>202-403-3587</u>						
Email Address: usdocketing@jeffersonip.com	Authorized User Name					
9. Signature:/George C. ECKERT/ Reg. No Signature George C. Eckert	Date Total number of pages including cover					
Name of Person Signing	sheet, attachments, and documents:					
	t) should be faxed to (571) 273-0140, or mailed to: f the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450					

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<u>Assignment</u>

WHEREAS, the following inventors, namely 1) Kyung-Kyu KIM, a citizen of the Republic of Korea, 2) Rakesh TAORI, a citizen of the Netherlands, 3) Jae-Jeong SHIM, a citizen of the Republic of Korea, 4) Yeong-Moon SON, a citizen of the Republic of Korea, and 5) Hyun-Jeong KANG, a citizen of the Republic of Korea and residing respectfully at 1) #301-201, Samsung Raemian APT, Singongdeok-dong 101-306, Mapo-gu, Seoul, Republic of Korea, 2) #111-1101, Sinmaetan Weve Haneulchae APT, Maetan 3-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, 3) #203-1304, Jeongdeum Maneul Donga 2 Danji APT, Jeongja-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea, 4) #203-1302, Taeyeong Desian APT, Yeongdeokdong, Giheung-gu, Yongin-si, Gyeonggi-do, 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 SUPPORTING MULTICAST COMMUNICATION IN BROADBAND WIRELESS ACCESS SYSTEM,

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on July 7, 2010, and assigned Serial No. 12/831,453; and,

WHEREAS, Samsung Electronics Co., Ltd., a corporation duly organized under the laws of the Republic of Korea, located and doing business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea (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:

- i. 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
- 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;

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- 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 represent, covenant and warrant 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 each Assignor's 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.

Signature of First Inventor:	knung kyru kIM	July 9,2010
•	Kyung-Kyu KIM	Date
Signature of Second Inventor:	Ratust Laron	July n. Zuro
	KARESH TAORI	Date
Signature of Third Inventor:	Jackeny Stray	July 1, 2010
	Jae-Jeong SHIM	Date
Signature of Fourth Inventor:	the only	July 1. 2010
	Yeong-Moon SON	Date

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Signature of Fifth Inventor:

Kang Hyun Jeore Hyun-Jeong KANG

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July 17, 2010 Date

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