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PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hyeong-Sook PARK	10/22/2007
Jun-Woo KIM	10/22/2007
Kyung-Yeol SOHN	10/22/2007
Youn-Ok PARK	10/22/2007

RECEIVING PARTY DATA

Name:	Electronics and Telecommunications Research Institute	
Street Address:	161, Gajeong-dong, Yuseong-gu,	
City:	Daejeon	
State/Country:	KOREA, REPUBLIC OF	

Name:	SAMSUNG ELECTRONICS CO., LTD.	
Street Address:	416, Maetan-dong, Yeongtong-gu,	
City:	Suwon-si, Gyeonggi-do	
State/Country:	KOREA, REPUBLIC OF	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11925686

CORRESPONDENCE DATA

Fax Number: (202)403-3587

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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ATTORNEY DOCKET NUMBER: 0204-0031 PATENT

500388161 REEL: 020046 FRAME: 0667

NAME OF SUBMITTER: Raymond B. Persino Total Attachments: 4 source=0204-0031_Assignment_as_filed#page1.tif

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source=0204-0031_Assignment_as_filed#page4.tif

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

RECORDATION FORM COVER SHEET PATENTS ONLY				
	se 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) Hyeong-Sook PARK, 2) Jun-Woo KIM, 3) Kyung-Yeol SOHN 4) Youn-Ok PARK	Name: Electronics and Telecommunications Research Institute			
, , , , , , , , , , , , , , , , , , , ,	Internal Address:			
Additional name(s) of conveying party(ies) attached? Yes V No				
3. Nature of conveyance/Execution Date(s):	Street Address: 161, Gajeong-dong, Yuseong-gu			
Execution Date(s) October 22, 2007				
Assignment Merger				
Security Agreement Change of Name	City: Daejeon-city			
Joint Research Agreement	State:			
Government Interest Assignment				
Executive Order 9424, Confirmatory License	Country: Republic of Korea Zip:			
Other	Additional name(s) & address(es) attached? ✓ Yes No			
11/925,686 Additional numbers att	tached? Yes ✓ No			
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: One			
Name:Raymond B. Persino	7. Total fee (37 CFR 1.21(h) & 3.41) \$			
Internal Address: Jefferson IP Law, LLP	Authorized to be charged by credit card			
	Authorized to be charged to deposit account			
Street Address: 1730 M Street, NW, Suite 807	Enclosed			
	None required (government interest not affecting title)			
City: Washington	8. Payment Information			
State: District of Columbia Zip:20036	a. Credit Card Last 4 Numbers Expiration Date			
Phone Number: <u>202-293-0804</u>				
Fax Number: 202-403-3587	b. Deposit Account Number			
Email Address: usdocketing@jeffersonip.com	Authorized User Name			
9. Signature:	2.44.4.00.0007			
/Raymond B. Persino/ Reg. #: Signature	58,082 October 26, 2007 Date			
Raymond B. Persino Name of Person Signing	Total number of pages including cover 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

Recordation of Assignment Page 2

#2. Name and Address of Receiving Parties (con't)

Name: Samsung Electronics Co., Ltd.

Internal Address:

Street Address: 416, Maetan-dong, Yeongtong-gu

City: **Suwon-si, Gyeonggi-do** Country: **Republic of Korea** Zip: _____

Attorney Docket No.: Client Docket No.:

Assignment

WHEREAS, the following inventors, namely 1) PARK, Hyeong-Sook, 2) KIM, Jun-Woo, 3) SOHN, Kyung-Yeol, and 4) PARK, Youn-Ok, all citizens of the Republic of Korea and residing respectfully at 1) 202-901, Maebong Maeul Apt., Hagi-dong, Yuseong-gu, Daejeon, Republic of Korea, 2) 504-102, Songnimmaeul 5-Danji Apt., 545, Hagi-dong, Yuseong-gu, Daejeon, Republic of Korea, 3) 105-1101, Jindalrae Apt., 312-1, Wolpyung-dong, Seo-ku, Daejeon, Republic of Korea, and 4) 109-401, Cheonggu Narae Apt., Jeonmin-dong, Yuseong-gu, Daejeon, 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 OF COMPENSATING FOR FREQUENCY OFFSET IN OFDMA SYSTEM,

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on October 26, 2007, and assigned Serial No. 11/925, 686; and, 10/26/07

WHEREAS, Electronics and Telecommunications Research Institute, a research institute duly organized under the laws of the Republic of Korea, located and doing business at 161, Gajeongdong, Yuseong-gu, Daejeon 305-350, Republic of Korea, and 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 "Assignees"), 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 Assignees 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 Assignees' 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 Assignees 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;
- to cooperate with the Assignees 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 Assignees any facts relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof, including

- 1 -

Attorney Docket No.: Client Docket No.:

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 Assignees the complete title to the inventions and discoveries and Letters Patent hereby conveyed and to enable Assignees 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 Assignees, their 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 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 their 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.	PARK, Hyeong-Sook	Oct. 22, 2007 Date
Signature of Second Inventor:	Kim, Jun-Woo Kim, Jun-Woo	Oct. 22, 2007 Date
Signature of Third Inventor:	Sohn Kyung Yeol SOHN, Kyung-Yeol	oct. 22, 2007 Date
Signature of Fourth Inventor:	Park Com OC	Oct. 22, 2007