0 12303346 -

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Kwang-Jae LIM	12/02/2008
Chul-Sik YOON	12/02/2008

RECEIVING PARTY DATA

Name:	Electronics and Telecommunications Research Institute	
Street Address:	161, Gajeong-dong, Yuseong-gu,	
City:	Daejeon-city	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	305-350	

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:	12303346

CORRESPONDENCE DATA

Fax Number: (202)403-3587

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

Phone: 202-293-2941

Email: usdocketing@jeffersonip.com

Correspondent Name: Maeng-Ho Shin Address Line 1: 1730 M Street, NW

Address Line 2: Suite 807

Address Line 4: Washington, DISTRICT OF COLUMBIA 20036

ATTORNEY DOCKET NUMBER: 0204-0067

PATENT

500720363 REEL: 021922 FRAME: 0152

NAME OF SUBMITTER:	Maeng-Ho Shin
Total Attachments: 4 source=0204-0067 Assignment As Filed#pa source=0204-0067 Assignment As Filed#pa source=0204-0067 Assignment As Filed#pa source=0204-0067 Assignment As Filed#pa	ge2.tif

PATENT REEL: 021922 FRAME: 0153

RECORDATION FORM COVER SHEET			
PATENT	TS ONLY		
	ase record the attached documents or the new address(es) below.		
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)		
Kwang-Jae LIM, and Chul-Sik YOON	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) December 2, 2008			
✓ Assignment Merger	Other Business 205 250		
Security Agreement Change of Name	City: Daejeon 305-350		
Joint Research Agreement	State:		
Government Interest Assignment	Country: Republic of Korea Zip:		
Executive Order 9424, Confirmatory License	Country republic of recea		
Other 4. Application or patent number(s):	Additional name(s) & address(es) attached? ✓ Yes No		
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: Jefferson IP Law, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$		
Internal Address: Maeng-Ho Shin	Authorized to be charged by credit card		
	Authorized to be charged by credit card Authorized to be charged to deposit account		
Street Address: 1730 M Street, NW, Suite 807	Enclosed		
5tt 66t / tdd 1565 65 tt 54554 , 52 55.	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: 202-293-0804			
Fax Number: 202-403-3587	b. Deposit Account Number		
Email Address: usdocketing@jeffersonip.com	Authorized User Name		
9. Signature: //Maeng-Ho SHIN/ Reg. #53	3,859 December 3, 2008		
Signature	December 3, 2008 Date		
Maeng-Ho Shin 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

Page 2 Recordation of assignment

Additional name and address of receiving parties:

Name: SAMSUNG ELECTRONICS CO., LTD.

Address: 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 442-742,

Republic of Korea

PATENT REEL: 021922 FRAME: 0155 Attorney Docket No.: Client Docket No.:

Assignment

WHEREAS, the following inventors, namely LIM, Kwang-Jae of Sangyong Apt. 403-201, Gyuanpyung-dong, Yuseong-gu, Daejeon 305-509, Republic of Korea; and YOON, Chul-Sik of 4-402, Samik Sunkyung Apt., Hagyel-dong, Nowon-gu, Seoul 139-777, 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:

POWER CONTROL AND SCHEDULING METHOD IN CONSIDERATION OF INTERFERENCE LEVELS BETWEEN NEIGHBOR SECTORS IN COMMUNICATION SYSTEM,

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, Gajeong-dong, 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 442-742, 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 evidence for any interference, litigation, mediation, arbitration or other proceeding relating to said invention, whenever requested;

- 1 -

PATENT REEL: 021922 FRAME: 0156 Attorney Docket No.: Client Docket No.:

- 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
- c. 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:	Kwangstae	Dec. 2, 2008
	LIM, Kwang-Jae	Date
Signature of Second Inventor:	Youn, Chulsite	Dec. 2, 2008
	YOON, Chul-Sik	Date Date