# PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
Mi-Hyun LEE	01/15/2009
Ho-Kyu CHOI	01/15/2009
Jae-Weon CHO	01/15/2009
Ki-Chun CHO	01/15/2009
Tae-Young KIM	01/15/2009
Chi-Woo LIM	01/15/2009

#### **RECEIVING PARTY DATA**

Name:	Samsung Electronics Co., Ltd.	
Street Address:	416, Maetan-dong, Yeongtong-gu	
City:	Suwon-si, Gyeonggi-do	
State/Country:	REPUBLIC OF KOREA	

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12354563

## **CORRESPONDENCE DATA**

Fax Number: (202)403-3587

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

Phone: 202-293-0804

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Correspondent Name: Jefferson IP Law, LLP Address Line 1: 1730 M Street, NW

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ATTORNEY DOCKET NUMBER: 0201-0205

NAME OF SUBMITTER: Raymond B. Persino

**PATENT** 

**REEL: 022115 FRAME: 0467** 

Total Attachments: 3

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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) Mi-Hyun LEE, 2) Ho-Kyu CHOI, 3) Jae-Weon CHO, 4) Ki-Chun CHO, 5) Tae-Young KIM, and 6) Chi-Woo LIM	Name: Samsung Electronics Co., Ltd.			
4) KI-OHUH OHO, 5) Tab-Toding Kim, and 5, 5.1	Internal Address:			
Additional name(s) of conveying party(ies) attached? Yes V No				
3. Nature of conveyance/Execution Date(s):  Execution Date(s) January 15, 2009	Street Address: 416, Maetan-dong, Yeongtong-gu			
Execution Date(s) January 15, 2009  Assignment  Merger				
Security Agreement Change of Name	City: Suwon-si, Gyeonggi-do			
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			
Additional numbers atta				
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:Raymond B. Persino	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: DC 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: /Raymond B. PERSINO/ Reg. N	lo. 58,082 January 15, 2009			
Signature	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

Attorney Docket No.: 0201-0205 Client Docket No.: P16535

# <u>Assignment</u>

WHEREAS, the following inventors, namely 1) Mi-Hyun LEE, 2) Ho-Kyu CHOI, 3) Jae-Weon CHO, 4) Ki-Chun CHO, 5) Tae-Young KIM, and 6) Chi-Woo LIM, all citizens of the Republic of Korea and residing respectfully at 1) 202, 602-182, Namhyeon-dong, Gwanak-gu, Seoul, Republic of Korea, 2) #113-601, Sibeomdanji Hanshin APT., Seohyeon-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea, 3) #104-1103, Hyundai I-PARK APT., Mangpo-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, 4) #946-406, Byeokjeokgol 9-danji APT., Yeongtong 2-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, 5) #308-103, Kkachimaeul Sinwon APT., Gumi-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea, and 6) #805-705, Byeokjeokgol 8-danji APT., Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggido, 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:

## METHOD FOR SIGNAL TRANSMISSION/RECEPTION BASED ON HARQ SCHEME IN WIRELESS MOBILE COMMUNICATION SYSTEM,

for which a United States Patent Application is being filed concurrently herewith or, if not being 1/15/09 concurrently filed, was filed on Tanuary 15, and assigned Serial No. 12/354,563; 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 (hereinaster 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:

to execute: a.

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

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 Assignee in every way possible in obtaining evidence and going b. 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;

to communicate to the Assignee any facts relating to said invention, said application and C. any divisional, continuing, substitute or reissue application thereof, including evidence

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for any interference, litigation, mediation, arbitration or other proceeding relating to said invention, whenever requested;

to testify in any interference, litigation, mediation, arbitration or other proceeding d. relating to said invention, said application and any divisional, continuing, substitute or

reissue application thereof whenever requested; and

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:	Mi-Hyun LEE	Jun (5, 2009) Date
Signature of Second Inventor:	Ho-Kyu CHOI who all produced town	Jan 15, 2009 Date.
Signature of Third Inventor:	Jae-Weon CHO	Tun 15, 2007
Signature of Fourth Inventor:	Ki-Chun CHO	Jan 15, 200 Date
Signature of Fifth Inventor:	· ·	Jan 15, 200 9 Date
Signature of Sixth Inventor:	Chi-Woo LIM	Jan 15, 2000 Date

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**RECORDED: 01/15/2009**