

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

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

RECORDATION FORM COVER SHEET  
**PATENTS ONLY**

Our Ref.: 50175

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

- 1) Dong-Hee KIM                      4) Jin-Kyu HAN  
2) Hwan-Joon KWON  
3) Youn-Sun KIM

Additional name(s) of conveying party(ies) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) November 30, 2005

- Assignment                       Merger  
 Security Agreement             Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other To correct erroneous Assignment Cover Sheet recorded at Reel 017308; Frame 0640; and to reflect inventor's name correction

**2. Name and address of receiving party(ies)**

Name: Samsung Electronics Co., Ltd.

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

416, Maetan-dong, Yeongtong-gu

City: Suwon-si

State: Gyeonggi-do

Country: Republic of Korea Zip: 442-742

Additional name(s) & address(es) attached?  Yes  No

**4. Application or patent number(s):**

This document is being filed together with a new application.

A. Patent Application No.(s)

11/289,570

B. Patent No.(s)

Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: John E. Holmes

Internal Address: \_\_\_\_\_

Roylance, Abrams, Berdo & Goodman, L.L.P.

Street Address: 1300 19th Street, N.W., Suite 600

City: Washington

State: D.C. Zip: 20036

Phone Number: (202) 659-9076

Fax Number: (202) 659-9344

Email Address: \_\_\_\_\_

**6. Total number of applications and patents involved:** \_\_\_\_\_

**7. Total fee (37 CFR 1.21(h) & 3.41) \$**

- Authorized to be charged by credit card  
 Authorized to be charged to deposit account  
 Enclosed If additional fee is required.  
 None required (government interest not affecting title)

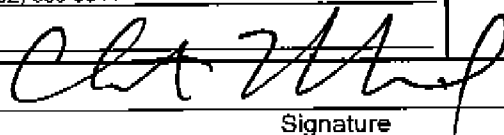
**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number \_\_\_\_\_

Authorized User Name \_\_\_\_\_

**9. Signature:**



Signature

Sept. 7, 2006

Date

Christian C. Michel (Reg. No. 46,300)

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

8

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
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12-07-2005



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Form PTO-1595 (Rev. 10/02) RE  
OMB No. 0651-0027 (exp. 6/30/2005)  
Tab settings

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark  
Our Ref.: 49417

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

11/289570

1. Name of conveying party(ies):  
Dong-Hee KIM;  
Hwan-Joon KWON;  
Youn-Sun KIM; Jin-Kyn HAN  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies)  
Name: Samsung Electronics Co., Ltd.  
Internal Address: \_\_\_\_\_

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
Execution Date: November 30, 2005

Street Address: 416, Maetan-dong, Yeongtong-gu  
Suwon-si, Gyeonggi-do  
City: \_\_\_\_\_ State: KOREA Zip: 442-742  
Additional name(s) & address(es) attached?  Yes  No

4. Application number(s) or patent number(s):  
If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_  
A. Patent Application No.(s) \_\_\_\_\_  
B. Patent No.(s) \_\_\_\_\_  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: John E. Holmes  
Internal Address: \_\_\_\_\_  
Roylance, Abrams, Berdo & Goodman, LLP  
Street Address: 1300 19th Street, N.W., Suite 600  
City: Washington State: DC Zip: 20036

6. Total number of applications and patents involved: 1  
7. Total fee (37 CFR 3.41).....\$ 40.00  
 Enclosed  
 Authorized to be charged to deposit account  
B. Deposit account number:  
18-2220  
(Attach duplicate copy of this page if paying by deposit account).

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9. Statement and signature.  
*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*  
Christian C. Michel (Reg. No. 36,400) \_\_\_\_\_ November 30, 2005  
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

12/01/2005 STEURELL 00000085 11289570

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Our File No: 50175  
Your File No: P1377B-US/ST-HMT/ysl

### ASSIGNMENT

WHEREAS, We, (1) Dong-Hee Kim; (2) Hwan-Joon Kwon; (3) Youn-Sun Kim; and (4) Jin-Kyu Han, all citizens of the Republic of Korea, residing respectively at (1) #124-1903, LG XI 1-cha APT., Simbongmaeul, 873, Singbong-dong, Yongin-si, Gyeonggi-do, Republic of Korea; (2) #944-614, Byuckjeokgol 9-danji Lotte APT., Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea; (3) #1008-1104, Mujigaemaecul Samsung APT., Gumi-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea; and (4) #305,984-6, Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea (hereinafter ASSIGNORS), have made a certain invention entitled "APPARATUS AND METHOD FOR INTERLEAVING CHANNELS IN A MOBILE COMMUNICATION SYSTEM" for which we are making application for Letters Patent of the United States, which application is being executed concurrently herewith; 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 ASSIGNEE), is desirous of acquiring the entire right, title and interest in and to the aforementioned invention and the aforementioned application and any and all United States Letters Patent to be obtained on said invention and/or application;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN that for good and valuable consideration paid to us by said ASSIGNEE, the receipt and sufficiency of which is hereby acknowledged, we, the ASSIGNORS, by these presents do hereby sell, assign, set over and transfer unto the said ASSIGNEE, its successors, legal representatives or assigns, the entire right, title and interest in and to the aforesaid invention in and for the United States; and in, to and under the aforesaid United States application and any divisional, continuing, substitute or reissue applications or supplementary disclosures which may be filed on said invention in the United States; and our right to file said applications and claim priority under the provisions of any international treaty or convention; and in and to any Letters Patent of the United States issued or granted on said invention and/or said applications;

AND WE HEREBY authorize and request the U.S. Patent and Trademark Office or other issuing authority to issue any and all patents on said invention and/or said applications to said ASSIGNEE as sole assignee;

AND WE HEREBY covenant that we have the full right to convey the entire right, title and interest herein assigned and that we have not executed and will not execute any assignment or other instrument in conflict herewith;

AND WE HEREBY further covenant and agree to communicate to said ASSIGNEE, or its legal representatives, successors or assigns, any facts relating to said invention, including evidence for interference purposes or other proceedings, whenever requested, and to testify in any interference or in any other legal proceeding, when requested, and to execute and deliver on request all lawful papers required to make any of the foregoing provisions effective; and to perform the aforesaid communicating, executing and delivering, without any payment except expenses and to perform the aforesaid testifying for reasonable compensation; and generally to do everything possible to aid the said ASSIGNEE, its

ASSIGNMENT

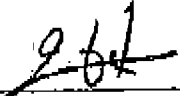
successors, legal representatives or assigns to obtain and enforce proper patent protection on and for said invention in the United States, and likewise we make these provisions binding upon our heirs, legal representatives and/or administrators.

ASSIGNMENT

The undersigned hereby grant the firm of Roylance, Abrams, Berdo & Goodman, L.L.P. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.


IN WITNESS WHEREOF, I have hereunder set my hand and seal this 30th day of November, 2005.

  
\_\_\_\_\_  
Dong-Hee Kim

  
\_\_\_\_\_  
Witness


IN WITNESS WHEREOF, I have hereunder set my hand and seal this 30th day of November, 2005.

  
\_\_\_\_\_  
Hwan-Joon Kyon

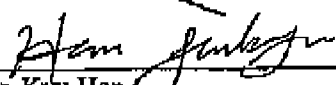
  
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Witness

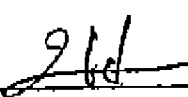
IN WITNESS WHEREOF, I have hereunder set my hand and seal this 30th day of November, 2005.

  
\_\_\_\_\_  
Youn-Sun Kim

  
\_\_\_\_\_  
Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 30th day of November, 2005.

  
\_\_\_\_\_  
Jin-Kyu Han

  
\_\_\_\_\_  
Witness