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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)/Execution Date(s):**

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

Execution Date(s) January 11, 2006

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: \_\_\_\_\_

Street Address: 416 Maetan-dong, Yeongtong-gu

City: Suwon-si, Gyeonggi-do

State: \_\_\_\_\_

Country: Korea Zip: \_\_\_\_\_

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**3. Nature of conveyance:**

- Assignment  Merger
- Security Agreement  Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other \_\_\_\_\_

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

This document is being filed together with a new application.

A. Patent Application No.(s)

11/272,017

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

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

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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:**

1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

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- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

**8. Payment Information**

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**9. Signature:**

*Stanislav Torgovitsky*  
Signature

January 13, 2006  
Date

Stanislav Torgovitsky, Reg. No. 43,958

Name of Person Signing

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

3

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
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01/17/2006 HALI11 00000123 11272017

01 FC:8021

(40.00 DP)

**PATENT  
REEL: 017452 FRAME: 0042**

## ASSIGNMENT

WHEREAS, We, (1) Jin-Kyu HAN; (2) Hwan-Joon KWON; (3) Dong-Hee KIM; and (4) Youn-Sun KIM, all citizens of the Republic of Korea, residing respectively at (1) #305, 984-6, Yeongtong-dong, Yeongtong-gu, Suwon-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) #124-1903, Sinbongmaeul LG Xi 1-cha APT., 873, Sinbong-dong, Yongin-si, Gyeonggi-do, Republic of Korea; and (4) #1008-1104, Mujigaemaoul Samsung APT., Gumi-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea (hereinafter ASSIGNORS), have made a certain invention entitled "METHOD AND APPARATUS FOR ARRANGING PILOT TONES IN A MOBILE COMMUNICATION SYSTEM" which was filed with the United States Patent and Trademark Office and assigned a Serial No. 11/272,017 and filing date of November 14, 2005; 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

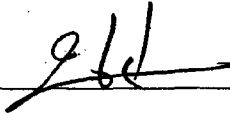
ASSIGNMENT

compensation; and generally to do everything possible to aid the said ASSIGNEE, its 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.


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.

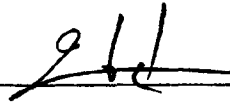
IN WITNESS WHEREOF, I have hereunder set my hand and seal this 11th day of January, 2006

  
\_\_\_\_\_  
Jin-Kyu HAN

  
\_\_\_\_\_  
Witness

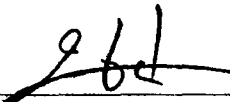
IN WITNESS WHEREOF, I have hereunder set my hand and seal this 11th day of January, 2006

  
\_\_\_\_\_  
Hwan-Joon KWON

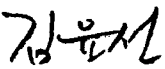
  
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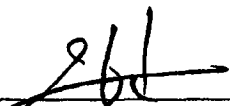
IN WITNESS WHEREOF, I have hereunder set my hand and seal this 11th day of January, 2006

  
\_\_\_\_\_  
Dong-Hee KIM

  
\_\_\_\_\_  
Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 11th day of January, 2006

  
\_\_\_\_\_  
Youn-Sun KIM

  
\_\_\_\_\_  
Witness