

06-06-2005

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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.			
<b>1. Name of conveying party(ies)/Execution Date(s):</b> (1) Jong-Hun Rhee (2) Su-Yean Kim (3) Min-Goo Kim  Execution Date(s) <u>May 31, 2005</u> Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>2. Name and address of receiving party(ies)</b> Name: <u>Samsung Electronics Co., Ltd.</u> Internal Address: _____  Street Address: <u>416, Maetan-dong, Yeongtong-gu</u>  City: <u>Suwon-si</u> State: <u>Gyeonggi-do</u> Country: <u>Republic of Korea</u> Zip: <u>442-742</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>9. Nature of conveyance:</b> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____		<b>4. Application or patent number(s):</b> A. Patent Application No.(s) <u>06/02/2005 TBESHAH1 00000054 11140077</u> <u>05/FC:8021 40.00 JP</u> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> This document is being filed together with a new application. B. Patent No.(s)	
<b>5. Name and address to whom correspondence concerning document should be mailed:</b> Name: <u>Roylance, Abrams, Berdo &amp; Goodman, L.L.P.</u> Internal Address: <u>Suite 600</u>  Street Address: <u>1300 19<sup>th</sup> Street, NW</u>  City: <u>Washington</u> State: <u>D.C.</u> Zip: <u>20036</u> Phone Number: <u>(202) 659-9076</u> Fax Number: <u>(202) 659-9344</u> Email Address: _____		<b>6. Total number of applications and patents involved:</b> <u>1</u>  <b>7. Total fee (37 CFR 1.21(h) &amp; 3.41) \$ 40.00</b> <input type="checkbox"/> Authorized to be charged by credit card <input type="checkbox"/> Authorized to be charged to deposit account <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)  <b>8. Payment Information</b> a. Credit Card Last 4 Numbers _____ Expiration Date _____ b. Deposit Account Number <u>18-2220</u> Authorized User Name <u>John E. Holmes</u>	
<b>9. Signature:</b> <u>Peter L. Kendall</u> Signature Peter L. Kendall Name of Person Signing		May 31, 2005 Date Total number of pages including cover sheet, attachments, and documents: <u>3</u>	

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

PATENT  
REEL: 016622 FRAME: 0015

## ASSIGNMENT

WHEREAS, I(we) (1) **Jong-Hun RHEE** a citizen of the Republic of Korea, residing at #102-1501, Sinmiju APT., 300-3, Woncheon-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea (2) **Su-Yean KIM** a citizen of the Republic of Korea, residing at #106-1601, Woosong 1-cha APT, Yeonsu-dong, Yeonsu-gu, Incheon, Republic of Korea (3) **Min-Goo KIM** a citizen of the Republic of Korea, residing at #102-902, Yehyeonmaeul, Hyundai Home Town, 705, Seocheon-ri, Giheung-eup, Yongin-si, Gyeonggi-do, Republic of Korea (hereinafter ASSIGNORS), have made a certain invention entitled

METHOD AND APPARATUS FOR DECODING INNER AND OUTER CODES IN A MOBILE COMMUNICATION SYSTEM

for which we are making application for Letters Patent of the United States, which application has been 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 in and for the United States, in and to the aforementioned application, and in and to 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; in and to 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, including our right to file said applications and claim priority under the provisions of any international treaty or convention; and any Letters Patent of the United States issued or granted on said invention and/or said applications;

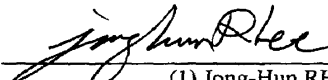
AND WE HEREBY authorize and request the U.S. Patent and Trademark Office to issue any and all patents on said invention and/or said application to said ASSIGNEE as sole assignee;


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 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.

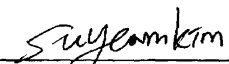
PATENT  
REEL: 016622 FRAME: 0016

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 31th day of  
May, 2005

  
(1) Jong-Hun RHEE

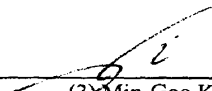
  
Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 31th day of  
May, 2005

  
(2) Su-Yean KIM

  
Witness

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 31th day of  
May, 2005

  
(3) Min-Goo KIM

  
Witness