Form PTO-1595 (Rev. 06/04) OMB No. 0651-0027 (exp. 6/30/2005)	U.S. DEPARTMENT OF COMMERCE 'United States Patent and Trademark Office
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To the Director of the U.S. Patent and Trad. 1029	1943 1 its or the new address(es) below. 2. Name and address of receiving party(ies)
1. Name of conveying party(ies)/Execution Date(s):	2. Name and address of receiving party(ies)
Seung-Hwan Lee	Name: Samsung Electronics Co., Ltd.
and \$	Internal Address:
FEB 2 3 2005 W	
Execution Date(s) February 18, 2005	Street Address: 416, Maetan-dong, Yeongtong-gu
Additional name(s) of conveying party(ies) attached 1257es 🛛 No	
3. Nature of conveyance:	City: Suwon-si
	State: Gyeonggi-do
Security Agreement Change of Name	
☐ Government Interest Assignment ☐ Executive Order 9424, Confirmatory License	Country: Republic of Korea Zip: 442-742
Other	Additional name(s) & address(es) attached? ☐ Yes ☒ No
4. Application or patent number(s):	This document is being filed together with a new application. B. Patent No.(s)
10/977,498	<i>5.</i> 7 dione (10)
Additional numbers attached? ☐ Yes ⊠ No	
5. Name and address to whom correspondence	6. Total number of applications and patents
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
concerning document should be mailed:	
concerning document should be mailed: Name: Roylance, Abrams, Berdo & Goodman, L.L.P.	involved: 1
concerning document should be mailed:	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card
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concerning document should be mailed: Name: Roylance, Abrams, Berdo & Goodman, L.L.P. Internal Address: Suite 600	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged to deposit account
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Concerning document should be mailed: Name: Roylance, Abrams, Berdo & Goodman, L.L.P. Internal Address: Suite 600 Street Address: 1300 19th Street, NW	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)
Concerning document should be mailed: Name: Roylance, Abrams, Berdo & Goodman, L.L.P. Internal Address: Suite 600 Street Address: 1300 19th Street, NW City: Washington	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information
Concerning document should be mailed: Name: Roylance, Abrams, Berdo & Goodman, L.L.P. Internal Address: Suite 600 Street Address: 1300 19th Street, NW City: Washington State: D.C. Zip: 20036	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers
Concerning document should be mailed: Name: Roylance, Abrams, Berdo & Goodman, L.L.P. Internal Address: Suite 600 Street Address: 1300 19th Street, NW City: Washington State: D.C. Zip: 20036 Phone Number: (202) 659-9076	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date
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concerning document should be mailed: Name: Roylance, Abrams, Berdo & Goodman, L.L.P. Internal Address: Suite 600 Street Address: 1300 19th Street, NW City: Washington State: D.C. Zip: 20036 Phone Number: (202) 659-9076 Fax Number: (202) 659-9344 Email Address: 9. Signature: Signature Peter L. Kendall	involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number 18-2220 Authorized User Name John E. Holmes February 23, 2005 Date Total number of pages including cover 3
Concerning document should be mailed: Name: Roylance, Abrams, Berdo & Goodman, L.L.P. Internal Address: Suite 600 Street Address: 1300 19th Street, NW City: Washington State: D.C. Zip: 20036 Phone Number: (202) 659-9076 Fax Number: (202) 659-9344 Email Address: 9. Signature: Peter L. Kendall Name of Person Signing Documents to be recorded (including cover sheet)	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number 18-2220 Authorized User Name John E. Holmes February 23, 2005 Date Total number of pages including cover sheet, attachments, and documents: 13 should be faxed to (703) 306-5995, or mailed to:
Concerning document should be mailed: Name: Roylance, Abrams, Berdo & Goodman, L.L.P. Internal Address: Suite 600 Street Address: 1300 19th Street, NW City: Washington State: D.C. Zip: 20036 Phone Number: (202) 659-9076 Fax Number: (202) 659-9344 Email Address: 9. Signature: Peter L. Kendall Name of Person Signing Documents to be recorded (including cover sheet)	involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number 18-2220 Authorized User Name John E. Holmes February 23, 2005 Date Total number of pages including cover sheet, attachments, and documents:
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PATENT REEL: 016294 FRAME: 0360

<u> ASSIGNMENT</u>

WHEREAS, I, Seung-Hwan Lee, a citizen of the Republic of Korea, residing respectively at #106-405, Banpo APT., Banpobon-dong, Seoucho-gu, Seoul, Republic of Korea, have made a certain invention entitled "APPARATUS AND METHOD FOR COMPESATING FOR ANALOG QUADRATURE MODULATION ERROR" for which I am making application for Letters Patent of the United States, which application has been executed concurrently herewith; and for which we are making application for Letters Patent of the United States, which application has been filed on November 1, 2004 and assigned Serial No. 10/977,498; 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, Gyconggi-do, 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 me by said ASSIGNEE, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, 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 foreign applications and claim priority under the previsions 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 I 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 application to said ASSIGNEE as sole assignee;

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

AND I 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 I make these provisions binding upon our heirs, legal representatives and/or administrators.

ASSIGNMENT

PATENT REEL: 016294 FRAME: 0361 I hereby grant the firm of Roylance, Abrams, Berdo & Goodman 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 Office for recordation of this document.

IN WITNESS WHEREOF, I have hereunder set my hand and seal this 18 day of

February , 2005.

Seung-Hwan Lee

Witness Chu-Hyun YI

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ASSIGNMENT

RECORDED: 02/22/2005

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PATENT REEL: 016294 FRAME: 0362