


Client Code: SAMINF.191A

**RECORDATION FORM COVER SHEET
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To the Director, U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): (List using letters or numbers for multiple parties) 1. Xiaochen Li 2. Chiu Ngo Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Name: Samsung Electronics Co., Ltd. Street Address: 416 Maetan-3Dong, Yeongtong-Gu City: Suwon City State: Gyeonggi-Do ZIP: 443-742 Country: KR Additional name(s) of receiving party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Security Agreement <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: (List as in section 1 if multiple signatures) 1. September 1, 2009 2. September 1, 2009	4. US or PCT Application number(s) or US Patent number(s): <input checked="" type="checkbox"/> Patent Application No.: 12/552,940 Filing Date: September 2, 2009 Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Party to whom correspondence concerning document should be mailed: Customer No. 20,995 Address: Knobbe, Martens, Olson & Bear, LLP 2040 Main Street, 14 th Floor Irvine, CA 92614 Return Fax: (949) 760-9502 Attorney's Docket No.: SAMINF.191A	6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 1.21(h)): \$40 <input checked="" type="checkbox"/> Authorized to be charged to deposit account	8. Deposit account number: 11-1410 Please charge this account for any additional fees which may be required, or credit any overpayment to this account.
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. <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> John M. Carson Name of Person Signing 34,303 Registration No. </div> <div style="width: 30%; text-align: center;">  Signature </div> <div style="width: 20%; text-align: center;"> September 2, 2009 Date </div> </div> <div style="text-align: right; margin-top: 10px;"> Total number of pages including cover sheet, attachments and document: 3 </div>	

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Application No.: Unknown
Filing Date: Herewith

ASSIGNMENT

WHEREAS, We, Xiaochen Li, a CN citizen, residing at 11 Cuneo Place, Apt. 4C, Jersey City, NJ 07307, and Chiu Ngo, a US citizen, residing at 227 Monticello Street, San Francisco, CA 94132, have invented certain new and useful improvements in a SYSTEM AND METHOD FOR IN-PHASE/QUADRATURE MULTIPLEXING for which we have executed an application for Letters Patent in the United States, on even date herewith;

AND WHEREAS, Samsung Electronics Co., Ltd. (hereinafter "ASSIGNEE"), a KR Corporation, with its principal place of business at 416 Maetan-3Dong, Yeongtong-Gu, Suwon City, Gyeonggi-Do 443-742, REPUBLIC OF KOREA, desires to acquire the entire right, title, and interest in and to said improvements and said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under said improvements, and said application including all provisional applications relating thereto (including but not limited to U.S. Provisional Application No(s). *, filed 12/03/2008 (respectively if plural applications)), and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE DO HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

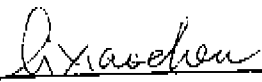
AND WE HEREBY covenant and agree that we will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

PATENT**REEL: 023170 FRAME: 0867**

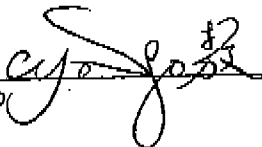
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IN TESTIMONY WHEREOF, I hereunto set my hand and seal this First day of
September, 2009.


Xiaochen Li

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 1st day of
September, 2009.


Chiu Ngo

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