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



HEET

7.30.07

To the Director of the U.S. Pat

103435274

shed documents or the new address(es) below.

1. Name of conveying party(ies)

Huaning NIU
Pengfei XIA
Chiu NGO

2. Name and address of receiving party(ies)

Name: Samsung Electronics Co., Ltd.

Internal Address: _____

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

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

Execution Date(s) July 27, 2007

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

Street Address: 416, Maetan-Dong, Paldal-Gu

City: Suwon City

State: Kyungki-do

Country: Republic of Korea Zip: 441-742

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)

B. Patent No.(s)

08/01/2007 TNGUYEN2 00000016 11881978

05 FC:802

40.00 DP

Additional numbers attached? ☐ Yes ☒ No

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

Name: Kenneth L. Sherman

Internal Address: Myers Dawes Andras & Sherman, LLP

Street Address: 19900 MacArthur Blvd., 11th Floor

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6. Total number of applications and patents 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 01-1960

Authorized User Name Myers Dawes Andras & Sher

9. Signature:

Signature

July 30, 2007

Date

Kenneth L. Sherman, Reg. No 33,783

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 (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT
REEL: 019702 FRAME: 0079

ASSIGNMENT OF APPLICATION FOR PATENT

WHEREAS: Huaning NIU, 359 E. Iowa Avenue, #1, Sunnyvale, California 94086 U.S.A., Pengfei XIA, 2005 California Street, Apt. 25, Mountain View, California 94040 U.S.A. and Chiu NGO, 227 Monticello Street, San Francisco, California 94132 U.S.A. (hereinafter referred to as ASSIGNORS), have made a discovery or invention entitled:

**METHOD AND SYSTEM FOR ANALOG BEAMFORMING IN WIRELESS
COMMUNICATION SYSTEMS**

- [X] for which application for Letters Patent of the United States has been executed on even date herewith,
- [] for which application for Letters Patent of the United States has been filed on _____, under Serial No. _____, and

WHEREAS: SAMSUNG ELECTRONICS CO., LTD., a Korean corporation, located at 416, Maetan-Dong, Paldal-Gu, Suwon City, KYUNGKI-DO 441-742, KOREA (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.


NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that in consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNORS hereby sell, assign and transfer to ASSIGNEE, its successors, legal representatives and assigns, the full and exclusive right, title and interest to said discovery or invention in the United States and its territorial possessions and in all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.


We, SAIDASSIGNORS, hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America whose duty it is to issue Letters Patent on applications as aforesaid, to issue all such Letters Patent for said discovery or invention to the ASSIGNEE, as assignee of the entire right, title and interest in, to and under the same, for the sole use and behalf of the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

We, SAID ASSIGNORS, hereby covenant that I have full right to convey the entire right, title and interest herein sold, assigned, transferred and set over; AND

We, SAID ASSIGNORS hereby further covenant and agree that the ASSIGNEE, its successors, legal representatives, or assigns, may apply for foreign Letters Patent on said discovery or invention and claim the benefits of the International Convention, and that I will, at any time, when called upon to do so by the ASSIGNEE, its successors, legal representatives, or assigns, communicate to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any facts known to me respecting said discovery or invention, and execute and deliver any and all lawful papers that may be necessary or desirable to perfect the title to the said discovery or invention, the said applications and the said Letters Patent in the ASSIGNEE, its successors, legal representatives and assigns, and that if reissues of the said Letters Patent or disclaimers relating thereto, or divisions, continuations, or refilings of the said applications, or any thereof, shall hereafter be desired by the ASSIGNEE, its successors, legal representatives, or assigns, I will, at any time, when called upon to do so by the ASSIGNEE its successors, legal representatives, or assigns, sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all divisional, continuation and reissue applications so desired, and do all lawful acts requisite for the application for such reissues and the procuring thereof and for the filing of such disclaimers and such applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention or discovery in all countries, all without further compensation but at the expense of the ASSIGNEE, its successors, legal representatives and assigns.

Assignor's signature:  Dated: 07/27/07
Huaning NIU

Citizenship: People's Republic of China

Assignor's signature:  Dated: 07/27/07
Pengfei XIA

Citizenship: People's Republic of China

Docket No. SAM2B.PAU.112

PATENT

Assignor's signature: Cy Ngo 許 Dated: 7/27/2007
Chiu NGO

Citizenship: U.S.A.

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