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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)

Chiu NGO

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

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

Execution Date(s) December 14, 2005

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

2. Name and address of receiving party(ies)

Name: Samsung Electronics Co., Ltd.

Internal Address: _____

Street Address: 416, Maetan-Dong

Paldal-Gu

City: Suwon City

State: Kyungki-Do

Country: Korea Zip: 441-742

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

A. Patent Application No.(s)

☒ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Kenneth L. Sherman, Esq.

Internal Address: Myers Dawes Andras & Sherman, LLP

Street Address: _____

19900 MacArthur Blvd., 11th Floor

City: Irvine

State: California Zip: 92612

Phone Number: (949) 223-9600

Fax Number: (949) 223-9610

Email Address: sherman@mdaslaw.com

6. Total number of applications and patents involved: One (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 _____
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b. Deposit Account Number 01-1960

Authorized User Name Myers Dawes Andras & Sher

9. Signature:

Signature

December 22, 2005

Date

Kenneth L. Sherman, Esq. (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 (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

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PATENT
REEL: 017414 FRAME: 0886

ASSIGNMENT OF APPLICATION FOR PATENT

WHEREAS **Jyh Chau HORNG**, 15024 Sperry Lane, Saratoga, California 95070 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 POWER LOADING IMPLEMENTATION DETECTION
IN BEAMFORMING 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, SAID ASSIGNORS, 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: _____
Jyh Chau HORNG

Citizenship: U.S.A.

Assignor's signature:  Dated: Dec. 14, 2005
Chiu NGO

Citizenship: U.S.A.