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U.S. DEPARTMENT OF COMMERCE



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To the Director of the U.S. Patent and

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document.

Name of conveying party(ies):

Yoo-sun BANG  
Edward J. DELP  
Fengqing ZHU  
Ho-young LEE  
Heui-keun CHOH

2.

Name and Address of receiving party(ies):

SAMSUNG ELECTRONICS CO., LTD.  
416, Maetan-dong, Yeongtong-gu,  
Suwon-si, Gyeonggi-do 443-742  
Republic of Korea

PURDUE RESEARCH FOUNDATION

3000 Kent Avenue,  
West Lafayette, Indiana 47906  
USA

3.

Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other: \_\_\_\_\_

Execution Date(s): September 3, 2007

4.

Application number(s) or patent number(s):

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

OR

☒ This document is being filed after filing of the application:

(a) Patent Application No(s). 11/826,755, filed July 18, 2007; or  
(b) Patent No(s). , issued .

5.

Name and address of party to whom correspondence concerning document should be mailed:

STAAS &amp; HALSEY LLP

Our Docket: 1907.1175Attention: Sang Chul Kwon

1201 New York Ave., N.W., 7th Floor  
Washington, D.C. 20005

6.

Total number of applications and patents involved: 1

7.

Total fee (37 CFR 3.41)..... (\$ 40.00 per Patent or Application in Assignment)

☒ Enclosed  
☐ Authorized to be charged to deposit account.

8.

Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account) (Attach duplicate copy of this page if paying by deposit account)

Sang Chul Kwon, Limited Recognition No. L0218

Name of Person Signing

Signature

October 9, 2007

Date

Total number of pages including cover sheet: 2

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PATENT

REEL: 019961 FRAME: 0099

Our Docket No.: 1907.1175

## U.S. ASSIGNMENT

3011-100

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by

(Insert Name(s) & Address(es) of ASSIGNEE(S))

SAMSUNG ELECTRONICS CO., LTD.  
416, Maetan-dong, Yeongtong-gu,  
Suwon-si, Gyeonggi-do 443-742  
Republic of Korea

PURDUE RESEARCH FOUNDATION  
3000 Kent Avenue,  
West Lafayette, Indiana 47906  
USA

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest in the invention entitled

(Title of invention)

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relating to International Patent Application PCT/KR\_\_\_\_\_, and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on September 3, 2007 (Insert date of execution of application. If not concurrent)

(b) filed on July 18, 2007.

Serial No. 11/826,755.

Any registered attorney of STAAS & HALSEY LLP, 1201 New York Avenue, N.W., Suite 700 Washington, D.C. 20005 (202/434-1500) is hereby authorized to insert in (b) the specified date, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)")

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Typed Name & Signature of Inventor(s))

(Date)

(Typed Name & Signature of Witness(es))

1) <u>Youngh BANG</u>	<u>September 3, 2007</u>
2) <u>Edward J. Delp</u>	<u>September 3, 2007</u>
3) <u>Pengqiang ZHU</u>	<u>September 3, 2007</u>
4) <u>Ho-Young LEE</u>	<u>September 3, 2007</u>
5) <u>Haei-Keun CHOH</u>	<u>September 3, 2007</u>
6) _____	_____