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Name of conveying parties:

- 1) Yang-lim CHOI
- 2) Yun-sang KIM
- 3) Yuh-ho CHOI
- 4) Hyo-seop SHIN
- 5) Dong-ho LEE

2. Name and Address of receiving party:

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

3. Nature of conveyance:

- Assignment
- Security Agreement
- Other: _____
- Merger
- Change of Name

Execution Date: January 4, 2009

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). 10/653,466, filed September 3, 2003; or
 - (b) Patent No(s). , issued .

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

STAAS & HALSEY LLP
Attention: Gregory W. Harper
1201 New York Ave., N.W., 7th Floor
Washington, D.C. 20005
Our Docket: 1293.1504

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)

Gregory W. Harper, Reg. No. 55,248
Name of Person Signing

Gregory W. Harper
Signature

Jan 6, 2010
Date

Total number of pages including cover sheet: 2

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U.S. ASSIGNMENT

6-111108

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

(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

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relating to International Patent Application PCT/JP_____/_____, 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 :

(insert date of execution of application, if not concurrent)

(b) filed on , September 3, 2003

Serial No. 10/653,465

Any registered attorney of STAS & HALSEY LLP, 1201 New York Avenue, N.W., Suite 700 Washington, D.C. 20003 (202/434-1500) is hereby authorized to insert in (b) the specified data, 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></u>	<u>4-Jan-2009</u>	_____
Yang-ilm CHOI		
2) <u></u>	<u>4-Jan-2009</u>	_____
Yun-sang KIM		
3) <u></u>	<u>4 Jan 2009</u>	_____
Yun-ho CHOI		
4) <u></u>	<u>4 Jan 2009</u>	_____
Myo-seop SHIN		
5) <u></u>	<u>4 Jan 2009</u>	_____
Dong-ho LEE		
6) _____	_____	_____
7) _____	_____	_____

PATENT

RECORDED: 01/06/2010

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