

3-17-08

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U.S. PTO
12/076314
03/17/2008

Atty. Docket No.: 2557-000880/US
Page 1 of 1

03-26-2008

RECORDATION



103491941

To the Honorable Commissioner
Please record the attached document.

<p>1. Name of conveying party(ies): Jun-youn KIM, Joong-S. JEON and Eun-ju BAE</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	<p>2. Name and address of receiving party(ies) Name: Samsung Electronics Co., Ltd. Street Address: 416 Maetan-dong, Yeongtong-gu City: Suwon-si State: Gyeonggi-do Country: Republic of Korea</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:</p> <p>Execution Date: 2/28/2008, 2/28/2008 and 2/29/2008</p>	

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is: **2/28/2008, 2/28/2008 and 2/29/2008**

A. Patent Application No(s).	B. Patent No.(s).
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Additional numbers attached? YES NO

<p>5. Name and address of party to whom correspondence concerning document should be mailed: Name: HARNESS, DICKEY & PIERCE, P.L.C. Street Address: P.O. BOX 8910 City: RESTON State: VA ZIP: 20195 Country: USA</p>	<p>6. Total No. of applications/patents involved: One (1)</p> <p>7. Total fee (37 C.F.R. § 3.41): \$40.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account, if no fee attached.</p> <p>8. Deposit account number: 08-0750</p> <p>(Attach triplicate copy of this page if paying by deposit account)</p>
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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.

John A. Castellano, #35,094 [Signature] March 17, 2008
Name of Person Signing/Reg. No. Signature Date

Total number of pages including cover sheet, attachments, and document:

JAC:c

03/18/2008 MBELETE1 00000046 12076314
01 FC:0021 40.00 0P

ASSIGNMENT

**WHEREAS, the undersigned hereinafter referred to collectively as Assignor, has
Invented:**

**METHOD OF FORMING NANOWIRE AND METHOD OF MANUFACTURING
SEMICONDUCTOR DEVICE COMPRISING THE NANOWIRE**

for which Assignor is about to make or has made United States or International application for
patent

- (a) executed on even date preparatory to filing (each inventor should sign
this Assignment on the same day as he/she signs the Declaration and
Power of Attorney);
- (b) executed on _____, _____, _____; or
- (c) filed on _____, and assigned Serial No. _____ or PCT International
Application No. _____;
- (d) U.S. Patent No. _____, issued _____; and

**WHEREAS, Samsung Electronics Co., Ltd., 416, Maetan-dong, Yeongtong-gu, Suwon-
si, Gyeonggi-do, Republic of Korea, and hereinafter referred to as Assignee, is desirous of
acquiring an interest therein:**

**NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy
whereof is hereby acknowledged, Assignor by these presents does sell, assign and transfer unto
Assignee and its successors in interest, the full and exclusive right, title and interest in the United
States of America and all foreign countries, including the right to claim priority under the laws of
the United States, the Paris Convention, and any foreign countries, to the said invention as
described in the aforesaid application, said application for patent and all Letters Patent therefor
to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are
granted and any extensions thereof as fully and entirely as the same would have been held by
Assignor had this assignment and sale not been made, and the right to recover for past
infringements of, or liabilities for, any of the rights relating to any of said applications or patents
resulting therefrom;**

Assignor hereby covenants and agrees to execute all instruments or documents required
or requested for the making and prosecution of any applications of any type for patent in the
United States and in all foreign countries including, but not limited to, any provisional,
continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters
patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the
purpose of protecting title and to the said invention, the United States application for patent, or
Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without
further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale or agreement or encumbrance has
been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the Commissioner of Patents and Trademarks to issue said
Letters Patent of the United States of America to Assignee, and requests that any official of any
country or countries foreign to the United States, whose duty it is to issue or grant patents and
applications as aforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's
Certificate to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the
power to insert on this Assignment any further identification which may be necessary or
desirable in order to comply with the rules of the U.S. Patent and Trademark Office for
recording of this document.

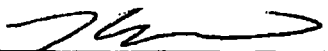
ASSIGNMENT



Jun-youn KIM

02. 28 . 2008

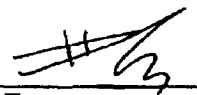
Dated



Joong-S. JEON

28/February/2008

Dated



Eun-ju BAE

02. 29 . 2008

Dated