

09-16-2005

FORM PTO-1595
(Rev. 6/93)

9/16/05



103082511
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

HEET

Attorney Docket No. 5000-1-779

To the Assistant Commissioner for Patents

1. Name of conveying party(ies):
 Young-Hyun KIM; Yu-Dong BAE; Jung-Kee LEE;
 In KIM

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

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name

Other: _____

Execution Date: September 6, 2005

2. Name and address of receiving party(ies):
 Name: SAMSUNG ELECTRONICS CO.; LTD.
 Address: 416, MAETAN-DONG, YEONGTONG-GU
SUWON-SI, GYEONGGI-DO
REPUBLIC OF KOREA

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

U.S. PTO
112963
11222136



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: September 6, 2005

A. Patent Application No.(s) _____
 B. Patent No.(s) _____

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: Steve Cha
 Address: CHA & REITER
210 Route 4 East, Suite #103
Paramus, New Jersey 07652

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00
 Enclosed
 Authorized to be charged to deposit account, if necessary - for overages or underpayments only

8. Deposit account number: 502-470
 (Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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.

Steve Cha, Reg No.44,069
Name of Person Signing

Signature

9/16/05
Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents
Box Assignments
Washington, D.C. 20231

09/13/2005 WASFAW1 00000028 11222136

04 FC:8021

(40.00 DP)

(BDSM 8)
(9/94)

PATENT
REEL: 016974 FRAME: 0902

Assignment of Invention and Patent Application

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of TEN (\$10.00) DOLLAR,

- 1) Young-Hyun KIM of
#101-1002, Byucksan e-village, Mangpo-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do,
Republic of Korea
- 2) Yu-Dong BAE of
#604-105, Youone Boseong APT., 1265, Gwonseon-dong, Gwonseon-gu, Suwon-si,
Gyeonggi-do, Republic of Korea
- 3) Jung-Kee LEE of
#309-1302, LG Village, Geumgok-dong, Gwonseon-gu, Suwon-si, Gyeonggi-do,
Republic of Korea
- 4) In KIM of
#706-1101, Salgugol 7-danji Seogwang APT., 988-2, Yeongtong-dong, Yeongtong-gu,
Suwon-si, Gyeonggi-do, Republic of Korea

(hereinafter **Assignor**) hereby sells, assigns, transfers, and sets over unto:

**SAMSUNG ELECTRONICS CO., LTD. of
416, MAETAN-DONG, YEONGTONG-GU, SUWON-SI, GYEONGGI-DO,
REPUBLIC OF KOREA**

(hereinafter **Assignee**) the entire right, title and interest for the United States Of America as defined in 35 U.S.C. § 1.00, in and to the invention entitled as:

"Method Of detecting Etching End-Point"

invented by **Assignor**; the application for United States patent therefor, invented by **Assignor**; any patent or reissues of any patent that may be granted thereon; and any applications which are continuations, continuation-in-part, substitutes, or divisions of said application. **Assignor** authorizes **Assignee** to enter the date of signature and/or Serial Number and Filing Date in the above. **Assignor** also authorizes and requests the Commissioner of Patents and Trademarks to issue any resulting patent(s) to the said **Assignee**, for its interests as **Assignee**, its successors, assigns and legal representatives. The undersigned agrees that the attorney of record in said application shall hereafter act on behalf of said **Assignee**; and **Assignor** further conveys to **Assignee** all priority rights resulting from the above-identified application for United States Patent. **Assignor** agrees to execute all papers, give any required testimony and perform other lawful acts, as deemed essential by **Assignee** to perfect **Assignee's** interest in any resulting patent of the United States, and to acquire, hold, enforce, convey, and uphold the validity of said patent and reissues and extensions thereof, and **Assignee's** interest therein.

SIGNED ON THE DATES(S) INDICATED BESIDE MY/OUR SIGNATURE(S):

Name of First Inventor: Young-Hyun KIM

Young-Hyun Kim
Signature of inventor

Dated: September 6, 2005

WITNESSED: Jong-Hee KIM
Jong-Hee KIM

Name of Second Inventor: Yu-Dong BAE

Yu-Dong Bae
Signature of inventor

Dated: September 6, 2005

WITNESSED: Jong-Hee KIM
Jong-Hee KIM

Name of Third Inventor: Jung-Kee LEE

Jung-Kee Lee
Signature of inventor

Dated: September 6, 2005

WITNESSED: Jong-Hee KIM
Jong-Hee KIM

Name of Fourth Inventor: In KIM

In Kim
Signature of inventor

Dated: September 6, 2005

WITNESSED: Jong-Hee KIM
Jong-Hee KIM