

FORM PTO-1595 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp.5/31/2002)
P08A/REV03

12-07-2004

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1. Name of conveying party(ies):
HA, In-su CHOI, Seung-cheol
KOO, Yoon-bon
LIM, Hyun-seok
HAN, Cheon-su

Additional names(s) of conveying party(ies) Yes No

2. Name and address of receiving party(ies):
Name: SAMSUNG ELECTRONICS CO., LTD.
Address: 416, Maetan-dong, Yeongtong-gu, Suwon-si

City: Gyeonggi-do State/Prov.: _____
Country: Republic of Korea ZIP: _____

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

22387 U.S. PTO
10/999183

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
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Execution Date: November 22, 2004

4. Application number(s) or patent numbers(s):
If this document is being filed together with a new application, the execution date of the application is: November 22, 2004

Patent Application No. Filing date B. Patent No.(s)

NEW NOVEMBER 30, 2004

Additional numbers Yes No

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

Name: ADAM C. VOLENTINE
Registration No. 33289
Address: VOLENTINE FRANCOS & WHITT, PLLC
ONE FREEDOM SQUARE
11951 FREEDOM DRIVE, SUITE 1260
City: RESTON State/Prov.: VA
Country: USA ZIP: 20190

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):.....\$ 40.00
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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.

ADAM C. VOLENTINE NOVEMBER 30, 2004
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and _____
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ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

**Insert
Name(s) of
Inventor(s)**

- | | |
|-------------------------|----------------------------|
| 1. <u>In-su HA</u> | 5. <u>Seung-cheol CHOI</u> |
| 2. <u>Yoon-bon KOO</u> | 6. _____ |
| 3. <u>Hyun-seok LIM</u> | 7. _____ |
| 4. <u>Cheon-su-HAN</u> | 8. _____ |

**Insert
Name(s) of
Assignee(s) &**

the undersigned hereby sell(s) and assign(s) to

SAMSUNG ELECTRONICS CO., LTD.

Address(es)

of 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

**Title of
Invention**

METHOD OF CLEANING SEMICONDUCTOR DEVICE FABRICATION APPARATUS

**Date of
Signing of
Application**

for which an application for patent in the United States of America has been executed by the undersigned on November 22, 2004

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuing, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) to Adam C. Volentine, Reg. No. 33,289 and William S. Francos, Reg. No. 38,456, and the firm of VOLENTINE FRANCOS, P.L.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 United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date Nov. 22, 2004 Signature of Inventor 
In-su HA

Date Nov. 22, 2004 Signature of Inventor 
Yoon-bon KOO

Date Nov. 22, 2004 Signature of Inventor 
Hyun-seok LIM

Date Nov, 22 2004 Signature of Inventor 
Cheon-su HAN

Date Nov. 22, 2004 Signature of Inventor 
Seung-cheol CHOI

Date _____ Signature of Inventor _____

Date _____ Signature of Inventor _____

Date _____ Signature of Inventor _____

(Note regarding Witnessing: It is recommended that the execution by the Inventor(s) be witnessed by at least two witnesses who sign here. However, the current practice of the U.S. Patent and Trademark Office is to record an Assignment even it has not been witnessed.)

Witness _____
Witness _____

Applicant Reference No. SIP030126US Attorney Docket No. SEC.1197