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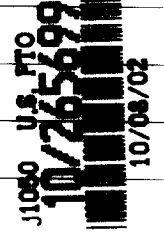
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To the Honorable Commissioner of Patents and Trademarks, original documents or copy thereof.

1. Name of conveying party(ies):  
AN, Jae-Hyuck  
  
10-8-02  
  
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, Paldal-gu,  
  
City: Suwon-city, Kyungki-do State/Prov.:  
Country: Republic of Korea ZIP:  
  
Additional name(s) & address(es)  Yes  No



3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other  
  
Execution Date: September 24, 2002

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: September 24, 2002  
  
Patent Application No. Filing date B. Patent No.(s)  
  
NEW OCTOBER 8, 2002  
  
10/09/2002 RHARIS1 00000045 10265699  
03 FC:561 € 40.00 DP  
  
Additional numbers  Yes  No

6. Total number of applications and patents involved: 1  
  
7. Total fee (37 CFR 3.41): \$ 40.00  
 Enclosed - Any excess or insufficiency should be credited or debited to deposit account  
 Authorized to be charged to deposit account  
  
8. Deposit account number:  
50-0238  
  
(Attach duplicate copy of this page if paying by deposit account)

5. Name and address of party to whom correspondence concerning document should be mailed:  
  
Name: ADAM C. VOLENTINE  
Registration No. 33289  
Address: VOLENTINE FRANCOS, PLLC  
12200 SUNRISE VALLEY DRIVE, SUITE 150  
  
City: RESTON State/Prov.: VA  
Country: U.S.A. ZIP: 20191

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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 [Signature] OCTOBER 8, 2002  
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and

3

# 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)** Jae-Hyuck AN

**Insert Name(s)  
of Assignee(s)** the undersigned hereby sell(s) and assign(s) to  
Samsung Electronics Co., Ltd.

**Address** of 416, Maetan-dong, Paldal-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 AND APPARATUS FOR PERFORMING SEQUENTIAL PROCESSES REQUIRING  
DIFFERENT AMOUNTS OF TIME IN THE MANUFACTURING OF SEMICONDUCTOR DEVICES**

**Date of Signing  
of Application** for which an application for patent in the United States of America has been executed by the undersigned  
on September 24, 2002

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 continuation, 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 FRANCO S, 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 2002. 09. 24, Name of Inventor Jae-Hyuck An  
Jae-Hyuck AN

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_

**(Note regarding Witnessing and/or Acknowledgment:** Acknowledgment before a United States Consul is preferred but not required. If not acknowledged, then 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 if it has not been acknowledged and/or witnessed.)

Witness

Witness

### ACKNOWLEDGMENT

} ss

This \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally came the above-named

\_\_\_\_\_ to me personally known as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth.

Official Signature

SEAL

Official Title

\*\*\*\*\*

Applicant Reference No.: AW7022US/MJ Atty Docket No.: SEC.982

Serial No.: \_\_\_\_\_ Filing Date: \_\_\_\_\_