To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
   CHANG, Hwan-suk
   MOON, Hong-bae

   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-ku,

   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: May 18, 1998

4. Application number(s) or registration numbers(s):

   If this document is being filed together with a new application, the execution date of the application is: May 18, 1998

   Patent Application No.  Filing date

   Additional numbers  ☐ Yes  ☑️ No

5. Name and address of party to whom correspondence concerning document should be mailed:
   Name: RAYMOND C. JONES
   Registration No. 34,631
   Address: JONES & VOLENTINE, L.L.P.
   12200 SUNRISE VALLEY DRIVE, SUITE 150

   City: RESTON  State/Prov.: VA
   Country: U.S.A.  ZIP: 20191

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

   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.
   RAYMOND C. JONES
   Name of Person Signing
   Signature
   MAY 26, 1998

   Total number of pages including covers, tabs, attachments: 1
ASSIGNMENT

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

Hwan-suk CHANG

Hong-bae MOON

and

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

SAMSUNG ELECTRONICS CO., LTD.

of 416, Maetan-dong, Paldal-ku, Suwon-city, Kyungki-do, Republic of 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

METHOD FOR MONITORING DEFECTS OF SEMICONDUCTOR DEVICE

for which an application for patent in the United States of America has been executed by the undersigned on May 18, 1998

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 Raymond C. Jones, Reg. No. 34,631 and Adam C. Volentine, Reg. No. 33,289, members of the firm of JONES & VOLENTINE, L.L.P. 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 1998-5-18, Name of Inventor Hwan-suk CHANG

Date 1998-5-18, Name of Inventor HONG-BAE MOON

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

__________________________________________

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

________________________________________

Official Title

Applicant Reference No.: SS-10154-US

Atty Docket No.: SEC.396

PATENT

RECORDED: 05/26/1998

REEL: 9191 FRAME: 0197