Docket No.: SEC.813 12-27-2001 FORM PTO-1595 (Modified) U.S. DEPARTMENT OF COMMERCE (Rev. 03-01) Patent and Trademark Office OMB No. 0651-0027 (exp.5/31/2002) P08A/REV03 12.190 Tab settings -101926286 To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): **Sung-min YIM Byong-mo MOON** Name: Samsung Electronics Co., Ltd. In-ho SONG Address: 416, Maetan-dong, Paldal-gu Additional names(s) of conveying party(ies) ☐ Yes 🏻 No Nature of conveyance: ★ Assignment □ Merger ☐ Security Agreement ☐ Change of Name City: Suwon-city, Kyungki-do State/Prov.: ☐ Other Country: Republic of Korea Execution Date: Oct. 18, 2001, Oct. 18, 2001, Nov. 5, 2001 ☐ Yes X No Additional name(s) & address(es) 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: 10/18/01, 11/5/01 B. Patent No.(s) Patent Application No. Filing date 09/955,310 September 19, 2001 00000028 09955310 12/26/2001 GTON11 40.00 OF 01 FC:581 ☐ Yes 🏻 No Additional numbers 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: 7. Total fee (37 CFR 3.41):....\$ 40.00 Name: ANDREW J. TELESZ, JR. Enclosed - Any excess or insufficiency should be 33,581 Registration No. credited or debited to deposit account Address: VOLENTINE FRANCOS, P.L.L.C. ☐ Authorized to be charged to deposit account 12200 SUNRISE VALLEY DRIVE, SUITE 150 8. Deposit account number: 50-0238 State/Prov.: VA City: RESTON (Attach duplicate copy of this page if paying by deposit account) ZIP: 20191 Country: USA DO NOT USE THIS SPACE To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy Statement and signature.

Total number of pages including cover sheet, attachments, and

of the original document.

ANDREW J. TELESZ

Name of Person Signing

December 19, 2001

Date

ACT 02 846 8637

5:01PM

VOLENTINE FRANCOS, PLLC

DEC. 19. 2001

ASSIGNMENT (9/2001) 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) Sung-min YIM Byone-mo MOON In-ho SONG from Name(s) the undersigned hereby sell(s) and assign(s) to of Ageignee(s) Samsung Electronics Co., Ltd. Address of 416, Maetan-dong, Paldal-gu, 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 Title of Invention AN APPARATUS AND METHOD FOR MEASURING ELECTRICAL CHARACTERISTICS OF A SEMICONDUCTOR ELEMENT IN A PACKAGED SEMICONDUCTOR DEVICE Date of Signing for which an application for patent in the United States of America has been executed by the undersigned of Application on Tichober 18 2011 Movember 5 2001 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 communition, division or reissue thereof and to cooperate with the Assignce 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 Parents to Issue any and all Letters Parents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignoe, as Assignoe 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.

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The undersigned hereby grant(s) to Adam C. Volemine, 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). \_\_\_, Name of Inventor Date Net 18 2001 Name of Inventor Byong-mo Moon Nov. 6 200/ Name of Inventor To-Ho In-ho Song \_\_\_\_\_, Name of Inventor , 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 wimessed.) Witness ACKNOWLEDGMENT This \_\_\_\_\_\_ day of \_\_\_\_\_\_, 19\_\_\_\_, before me personally came the aboveto 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.: SS-15381-US Arry Docket No.: SEC.813 Scrial No.: 09/955.310 Filing Date: September 19, 2001

> PATENT REEL: 012387 FRAME: 0896