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Grant J. Scott Myers Bigel Sibley & Sajovec P.O. Box 37428 Raleigh, North Carolina 27627  8. Deposit account number: 50-0220  (Attach duplicate copy of this page if paying by deposit account)  FC:581  DO NOT USE 45146 (40 PACE)  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.	If this document is being filed together with a new application is: October 1, 1999	
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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.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Signature  Total number of pages including cover sheet, attachments and document	To the best of my knowledge and belief, the foregoing information of the original document.  Grant J. Scott, #36,925  Signature	10 25 99 Date

**PATENT REEL: 010355 FRAME: 0938** 

## ASSIGNMENT

THIS ASSIGNMENT, made by me, **Kang-Wook Park**, citizen of the Republic of Korea, residing at #602-197, 13-1, Namhyun-dong, Kwanak-ku, Seoul, Republic of Korea; WITNESSETH: That.

WHEREAS, I am the sole inventor of certain new and useful improvements in	
BIPOLAR JUNCTION TRANSISTORS HAVING TRENCH-BASED BASE	
ELECTRODES AND METHODS OF FORMING SAME, for which an application for	
United States Letters Patent has been filed, or is being filed concurrently, in the United	
States Patent and Trademark Office. I hereby authorize and request Myers Bigel Sibley &	
Sajovec, P.A., to insert here in parentheses (Application No, filed	
) the filing date and application number of said application when	
known or to file this Assignment concurrently with the application, and	

WHEREAS, Samsung Electronics Co., Ltd., a Korean corporation having a principal place of business at 416 Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries:

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I have sold and by these presents do hereby sell, assign, transfer and convey unto the said assignee, its successors and assigns, the entire right, title and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

I hereby request that said Letters Patent be issued in accordance with this assignment.

PATENT REEL: 010355 FRAME: 0939 I further covenant and agree that, at the time of the execution and delivery of these presents, I possess full title to the invention and application above-mentioned, and that I have the unencumbered right and authority to make this assignment.

I further covenant and agree to bind my heirs, legal representatives and assigns, promptly to communicate to said assignee or its representatives any facts known to me relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns and other legal representatives.

assignee, its successors, assigns and other legal representatives.
IN WITNESS WHEREOF, I have hereunto set my hand and seal on this first day
ot <u>C<sup>1</sup>ct.</u> , 1999.
Kong Wook Park (SEAL)  Kang-Wook Park
Witnessed by:
Date:

Date:

**RECORDED: 10/26/1999**