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Execution Date: January 10, 2000	

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

A. Patent Application No.(s) 09/396,438	B. Patent No.(s)
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Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed: OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C. Attorneys at Law Fourth Floor 1755 Jefferson Davis Highway Arlington, Virginia 22202	6. Total number of applications and patents involved: <u>1</u>
	7. Total fee (37 CFR 3.41):.....\$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account
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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.

<u>Marvin J. Spivak</u> Name of Person Signing Registration No. 24,913	<u>Surinder Sachar</u> Signature Registration No. 34,423	<u>9-1-00</u> Date Total number of pages including cover sheet: <u>3</u>
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United States of America ASSIGNMENT

Name(s) of inventor(s):-

Shields, Andrew James

In consideration of the sum of one dollar(\$1.00), and other good and valuable consideration paid to (each of) the undersigned, the receipt and sufficiency of which are hereby acknowledged, the undersigned agree(s) to assign, transfer and set over to:-

Name of Assignee:- Kabushiki Kaisha Toshiba

Address of Assignee:- 72 Horikawa-cho

Saiwai-ku

Kawasaki-shi

Japan

a corporation of Japan

(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, in the invention known as:
Title: **Semiconductor Device**

for which the undersigned has/have executed an application for patent in the United States of America, said application having been executed (filed)
on September 15, 1999 and assigned serial No. 09/396,438

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

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

3) 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 Union for Protection of Industrial Property or similar agreements.

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

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

6). The undersigned hereby grant(s) the law firm of: Oblon, Spivak, McClelland, Maier & Neustadt, P.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 and Trademark Office.

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

Date	Name	Signature
<u>10 Jan 2000</u>	<u>Shields, Andrew James</u>	<u>Andrew Shields</u>
	Witness	<u>Shim Egan</u>