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U.S. DEPARTMENT OF COMMERCE  
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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Hisashi KAWAFUJI, Mitsutaka IWASAKI, Gourab  
MAJUMDAR, and Toshiaki SHINOHARAAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of Conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: January 27, 30, 30, and 28,  
1999

## 2. Name and address of receiving party(ies):

Name: MITSUBISHI DENKI KABUSHIKI KAISHA

Address: 2-3, Marunouchi 2-chome  
Chiyoda-ku  
Tokyo 100-8310 JapanAdditional name(s) and address(es) attached? ☐ Yes ☒ NoU.S. PTO  
29/100732  
02/17/99

## 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: **January 27, 30, 30, and 27, 1999**

A. Patent Application No.(s)

B. Patent No.(s)

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 applications and patents involved: 1

## 7. Total fee (37 CFR 3.41): \$40.00

- ☒ Enclosed  
☐ 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.*

C. Irvin McClelland

MARVIN J. SPIVAK  
REGISTRATION NUMBER 24,913

Date

03/01/1999 Name of Person Signing  
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ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, Hisashi KAWAFUJI, Mitsutaka IWASAKI, Gourab MAJUMDAR and Toshiaki SHINOHARA

hereby sells, assigns and transfers to

MITSUBISHI DENKI KABUSHIKI KAISHA  
of 2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN

(hereinafter called the Assignee), its successors and assigns, the entire right, title, and interest in and to:

- (i) the application for United States Letters Patent entitled  
SEMICONDUCTOR DEVICE

which was executed by the undersigned on the dates indicated below  
 or was filed on \_\_\_\_\_ and accorded Serial No.  
 \_\_\_\_\_ (hereinafter called the Application) ;

- (ii) any and all inventions and improvements which are described in the Application ;  
 (iii) any and all United States Letters Patents which may be granted on the Application (hereinafter called Patent) ;  
 (iv) any and all divisions, continuations, substitutes, reexaminations, reissues, or extensions of the Application or Patent; and  
 (v) all benefits under the International Convention for the Protection of Industrial Property.

Said Assignee of said patent application and the attorneys appointed to prosecute said patent application are authorized to insert in this instrument the filing date and serial number of said application.

The Commissioner of Patents and Trademarks is authorized to issue any and all of said Letters Patent, when granted, to said Assignee.

Further, it is agreed that, when requested, without charge to but at the expense of said Assignee, the undersigned will execute all divisional, continuing, substitute, or reissue patent applications; execute all additional assignments and other writings, including reexamination papers; and provide all reasonable assistance requested by the Assignee to secure and maintain appropriate patent protection.

## INVENTOR(S) :

(Hisashi KAWAFUJI) Hisashi Kawafuji  
 (Mitsutaka IWASAKI) Mitsutaka Iwasaki  
 (Gourab MAJUMDAR) Gourab Majumdar  
 (Toshiaki SHINOHARA) Toshiaki Shinohara

DATE  
Jan 27, 1999

Jan 30, 1999

Jan 30, 1999

Jan. 28, 1999