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To the Director of the U.S. Patent and Trademark

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or the new address(es) below.

**1. Name of conveying party(ies)/Execution Date(s):**

Akio IWABUCHI

Execution Date(s) May 24, 2004

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

**3. Nature of conveyance:**

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other

**2. Name and address of receiving party(ies)**

Name: SANKEN ELECTRIC CO., LTD.

Internal Address:

Street Address: 6-3, Kitano 3-Chome, Niiza-shi

Saitama, 352-8666, JAPAN

City:

State:

Country: JAPAN

Zip:

Additional name(s) & address(es) attached? ☐ Yes ☒ No

**4. Application or patent number(s):**

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

PCT/JP2003/01982

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: RAYMOND E. SCOTT

Internal Address: HOWARD & HOWARD ATTORNEYS, PC

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State: MICHIGAN

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Fax Number: (248) 645-1568

Email Address: rscott@howardandhoward.com

**6. Total number of applications and patents involved:**

1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☐ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☒ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 08-2789

Authorized User Name \_\_\_\_\_

**9. Signature:**

*Raymond E. Scott*  
Signature

August 18, 2004

Date

Raymond E. Scott

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

4

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Attorney's Docket No. \_\_\_\_\_

**PATENT**

For: ☐ U.S. and/or ☐ Foreign Rights  
For: ☐ U.S. Application or  
      ☐ U.S. Provisional Application  
For: ☐ U.S. Patent  
For: ☒ PCT Application  
By: ☒ Inventor(s) or ☐ Present Owner

**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNOR:**

Inventor(s) or person(s) or  
entity(ies) who own the  
invention

Akio IWABUCHI*(type or print name(s) of ASSIGNOR(S))*c/o SANKEN ELECTRIC CO., LTD., 6-3,*Address*Kitano 3-chome, Niiza-shi, Saitama 352-8666, JAPANJapan*Nationality*

*(if assignment is by person or entity to whom invention was previously assigned  
and this was recorded in PTO, add the following)*

Recorded on \_\_\_\_\_

Reel \_\_\_\_\_

Frame \_\_\_\_\_

hereby sells, assigns and transfers to

**ASSIGNEE:**SANKEN ELECTRIC CO., LTD.,*(type or print name(s) of ASSIGNEE(S))*6-3, Kitano 3-chome, Niiza-shi, Saitama*Address*352-8666, JAPANJapan*Nationality*

and the successors, assigns and legal representatives of the ASSIGNEE

(Assignment of Invention [16-3]—page 1 of 3)

**PATENT**  
**REEL: 016192 FRAME: 0647**

(complete one of the following)

- ☐ the entire right, title and interest  
☐ an undivided \_\_\_\_\_ percent (\_\_\_\_\_% ) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority,  
in and to any and all improvements which are disclosed in the invention entitled:  
SEMICONDUCTOR DEVICE

Name of inventor(s) Akio IWABUCHI

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

- (a) ☐ U.S. patent application executed on even date herewith  
(b) ☐ U.S. patent application executed on \_\_\_\_\_  
(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention.  
☐ Express mail label no.: \_\_\_\_\_  
Mailed: \_\_\_\_\_  
☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.  
(d) ☐ U.S. application no. \_\_\_\_\_ / \_\_\_\_\_  
filed on \_\_\_\_\_  
(e) ☒ International application no. PCT/ JP2003 / 01982  
(f) ☐ U.S. patent no. \_\_\_\_\_ issued \_\_\_\_\_  
☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

- (g) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 24<sup>th</sup> day  
of May, 2004  
Date of signing

**WARNING:** The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: May 24, 2004

Akio Iwabuchi  
Signature of ASSIGNOR(S) Akio IWABUCHI

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

(If ASSIGNOR is a legal entity, complete the following information)

\_\_\_\_\_  
(type or print the name of the above person  
authorized to sign on behalf of ASSIGNOR)

\_\_\_\_\_  
Title

**NOTE:** No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

(Assignment of Invention [16-3]—page 3 of 3)