

Attorney Docket No. **020212**

WRD

3-1-02

RECORD

PATENT 102011923

03-11-2002



UNIT OF COMMERCE  
and Trademark Office

JC986 U.S. PTO

10/084924

03/01/02

Commissioner for Patents: Please record the attached original documents or copy thereof.

Submission type: XX New

Conveyance type: XX Assignment

**Conveying Party(ies):**

Execution Date

First party Name: **MAKIYAMA, Kozo** February 4, 2002

Second party Name: **IKECHI, Naoya** February 4, 2002

Third party Name: **TAN, Takahiro** February 4, 2002

Fourth party Name:

Fifth party Name:

10084924

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

**Receiving Party (ies):**

First party Name: **FUJITSU LIMITED**  
Address: 1-1, Kamikodanaka 4-chome, Nakahara-ku,  
Kawasaki-shi, Kanagawa, 211-8588 Japan

Name: **FUJITSU QUANTUM DEVICES LIMITED**  
Address: 1000, Oaza-Kamisukiawara, Showa-cho,  
Nakakoma-gun, Yamanashi, 409-3883 Japan

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

**Domestic Representative Name and Address** (Enter for the first Receiving Party only)

**ARMSTRONG, WESTERMAN & HATTORI, LLP**  
1725 K Street, N.W., Suite 1000  
Washington, D.C. 20006

For Office Use Only

03/06/2002 ST:UMEL1 00000047 10084924

04 FC:581

40.00 OP

## Correspondent Name and Address

ARMSTRONG, WESTERMAN & HATTORI, LLP  
1725 K Street, N.W., Suite 1000  
Washington, D.C. 20006

Telephone: 202-659-2930

**Pages** Enter the total number of pages of the attached conveyance document: 1  
(including any attachments, but not counting cover sheets)

**Application Number(s) or Patent Number(s)** Additional numbers attached? Yes ☐ No ☒

A. Patent Application No.(s)

##

B. Patent No.(s)

##

If this document is being filed together with a new application, enter the date the application was signed by the first named executing inventor: February 4, 2002

(Do not recite both application and patent numbers.)

## Patent Cooperation Treaty (PCT)

PCT \_\_\_\_\_

Enter PCT application number only if  
a U.S. Application Number has not been assigned

PCT \_\_\_\_\_

PCT \_\_\_\_\_

**Number of Properties** Enter the total number of properties involved: 1

## Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41). . . . . \$40.00

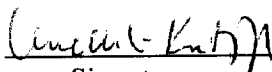
☒ Enclosed☐ Authorized to be charged to Deposit Account No.: 01-2340

## 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.

William G. Kratz, Jr.

Name of Person Signing

  
SignatureMarch 1, 2002

Date

22,631

Registration No.

**U.S. ASSIGNMENT**

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by  
FUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi,  
Kanagawa 211-8588 Japan, and FUJITSU QUANTUM DEVICES LIMITED, 1000, Oaza-Kamisukawara,  
Shiwa-cho, Nakakoma-gun, Yamaguchi 409-3883 Japan

(Insert ASSIGNEE's  
 Name(s) Address(es))

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of Invention)

SEMICONDUCTOR DEVICE WITH MUSHROOM ELECTRODE AND  
MANUFACTURE METHOD THEREOF

(\*If the assignment is  
 being filed after the filing  
 of the application, this  
 section must be  
 completed)

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

\*filed on \_\_\_\_\_, Serial No. \_\_\_\_\_  
 (Armstrong, Westerman, Hattori, McLeland & Naughton is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefor on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

<u>Kozo MAKIYAMA</u> (SIGNATURE)	<u>Kozo MAKIYAMA</u> (TYPE NAME)	<u>Feb. 4, 2002</u> (DATE)
<u>Naoya IKECHI</u> (SIGNATURE)	<u>Naoya IKECHI</u> (TYPE NAME)	<u>Feb. 4, 2002</u> (DATE)
<u>Takahiro TAN</u> (SIGNATURE)	<u>Takahiro TAN</u> (TYPE NAME)	<u>Feb. 4, 2002</u> (DATE)
_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
_____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)

NO LEGALIZATION REQUIRED