

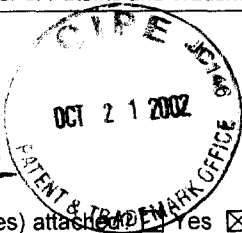


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To the Honorable Commissioner of Patents and Trademarks: Please Record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
Kunihiro TADA  
Hayashi OTSUKI



10-21-02

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

2. Name and address of receiving party(ies)

Name: Tokyo Electron Limited

Internal Address: \_\_\_\_\_

Street Address: 3-6, Akasaka 5-Chome

Minato-Ku, Tokyo-To, JAPAN

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Additional Name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: 10/8/02, 10/4/02, respectively

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

If this document is being filed together with a new application, the execution data of the application is: \_\_\_\_\_

A. Patent Application No.(s)

10/216,398

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning this document should be mailed:

Name: Smith, Gambrell & Russell

Internal Address: \_\_\_\_\_

Street Address: 1850 M Street, N.W.

Suite 800

City: Washington State: DC Zip: 20036

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) . . . . . \$ 40

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

02-4300

(Attach duplicate copy of this page if paying by 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.*

Michael A. Makuch

Name of Person Signing

Signature

October 21, 2002

Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

10/23/2002 MBIZUNES 00000076 10216398

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**ASSIGNMENT**

This assignment agreement is applicable to an invention entitled:

**METHOD OF FORMING TITANIUM FILM BY CVD**

The PATENT RIGHTS referred to in this agreement are:

- (check one)  a patent application for this invention, executed by the ASSIGNOR(S) concurrently with this assignment.
- U.S. patent application Serial No. 10/216,398 filed August 12, 2002.
- a U.S. patent application based on PCT International Application No. \_\_\_\_\_ filed on (date) \_\_\_\_\_, U.S. patent application Serial No. \_\_\_\_\_, if known).
- U.S. patent No. \_\_\_\_\_, issued \_\_\_\_\_.

The PATENT RIGHTS also include all divisions, reissues, continuations and extensions of the patents and patent applications identified above.

The PATENT RIGHTS assigned under this agreement are:

- (check one)  U.S. patent rights only.
- Worldwide patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any U.S. or foreign patent application for this invention.

The ASSIGNOR(S) referred to in this agreement is (or are) the inventor(s) whose signatures appear on page 2 of this Assignment and any Supplemental Sheet(s).

The ASSIGNEE referred to in this agreement is:

(Name of Assignee) **Tokyo Electron Limited**  
(Address) **3-6, Akasaka 5-Chome, Minato-Ku, Tokyo-To, Japan**

The ASSIGNEE is:

- (check one)  An Individual.
- A Partnership.
- A Corporation of JAPAN (specify state or country)
- (other)

The ASSIGNOR(S), receipt of which is acknowledged, hereby assign(s) the following rights to the ASSIGNEE, its successors and assigns:  
the full and exclusive right to the invention;

the entire right, title and interest in and to the PATENT RIGHTS;  
the right to sue and recover for any past infringement; and,  
the right to claim priority under 35 USC 119, 35 USC 120, or any other applicable provisions,  
based on any earlier patent applications for this invention.

As to all U.S. patent applications assigned under this agreement, the ASSIGNOR(S) hereby  
authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue all Letters Patent to the  
ASSIGNEE as the assignee of the entire right, title and interest, for the sole use and enjoyment of said  
ASSIGNEE, its successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE, or its representatives,  
any facts known to the ASSIGNOR(S) respecting said invention, and testify in any legal proceedings,  
sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and  
reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be  
issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to  
aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said  
invention.

The ASSIGNORS authorize any attorneys and agents who have a power of attorney in this  
application to check any appropriate boxes and to insert the Serial Number and filing date in this  
document after it has been executed.

Kunihiro TADA      *Kunihiro Tada*      October 8, 2002  
Name of sole or first inventor      Signature      Date

Hayashi OTSUKI      *Hayashi Otsuki*      October 4, 2002  
Name of second inventor, if any      Signature      Date