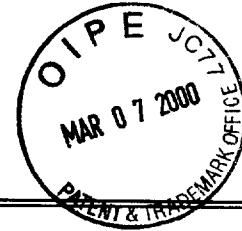


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**RECORDATION COVER SHEET
PATENTS**

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

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

Hiroyuki YAMAMOTO

2. Name(s) and Address(es) of receiving party(ies):

TOKYO ELECTRON LIMITED
3-6, Akasaka 5-chome
Minato-ku, Tokyo-to, JAPAN

3. Nature of conveyance: Assignment
Execution Date: November 19, 1999

4A. Patent Application No.(s): 09/449,776
Application execution date : November 19, 1999

4B. Patent No.(s):

5. Name and Address of Party to whom correspondence regarding this document should be mailed:

Smith, Gambrell & Russell, LLP
Beveridge, DeGrandi, Weilacher & Young
Intellectual Property Group
1850 M Street N.W. (Suite 800)
Washington, DC 20036

202 659-2811

6. Total number of applications and patents involved : one

7. Total fee: \$40.00.

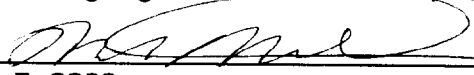
(Enclosed. Please charge any deficiency or refund any excess to counsel's deposit account.)

8. Deposit account no.: 02-4300

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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.

Name of Person Signing : Michael A. Makuch, Reg. No. 32,263

Signature: 

Date: March 7, 2000

03/09/2000 CUDRACHA 00000024 09449776

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40.00 DP

PATENT
REEL: 010594 FRAME: 0670

ASSIGNMENT

This assignment agreement is applicable to an invention entitled (Invention Title) _____
THERMAL TREATMENT APPARATUS

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. _____, filed _____.
 - ☐ 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), in consideration of \$10.00 paid by the ASSIGNEE, and other good and valuable consideration, 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.

ASSIGNEE: TOKYO ELECTRON LIMITEDINVENTION TITLE: THERMAL TREATMENT APPARATUS

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.

Hiroyuki YAMAMOTO

Name of sole or first inventor

Hiroyuki Yamamoto

Signature

November 19, 1999

Date

Name of second inventor, if any

Signature

Date

Name of third inventor, if any

Signature

Date

Name of fourth inventor, if any

Signature

Date

Name of fifth inventor, if any

Signature

Date

Name of sixth inventor, if any

Signature

Date

Name of seventh inventor, if any

Signature

Date

Name of eighth inventor, if any

Signature

Date

Name of ninth inventor, if any

Signature

Date