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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)

Yukimasa SAITO  
Hitoshi MURATA  
Hiroyuki YAMAMOTO

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

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

Name: Tokyo Electron, Ltd.

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

Street Address: 3-6, Akasaka 5-chome,  
Minato-ku,

City: Tokyo State: Japan Zip: 107-8481

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

3. Nature of conveyance:

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

Execution Date: October 12 and 13, 1999

09/448879

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: October 12 and 13, 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:

Name: Mitchell P. Brook, Esq.  
Internal Address: Baker & McKenzie  
101 West Broadway  
12th Floor  
Street Address: Same As Above  
City: San Diego State: CA Zip: 92101

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. 3.41) \$ 40.00

Enclosed  
 Authorized to be charged to deposit account

8. Deposit account number:

02-0410  
(Attached 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 forgoing information is true and correct and any attached copy is a true copy of the original document.

Mitchell P. Brook  
Name of Person Signing

Signature

November 24, 1999  
Date

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

Mail documents to be recorded with required cover sheet information to:

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WASHINGTON, D.C. 20231

U.S. PTO  
09/448879  
11/24/99

**ASSIGNMENT**

In return for good and valuable consideration paid to the undersigned inventor(s) (hereafter called the "ASSIGNOR"), by:

TOKYO ELECTRON LIMITED

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

3-6, Akasaka 5-chome, Minato-ku, Tokyo 107-8481, Japan

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

HEAT TREATMENT APPARATUS AND CLEANING METHOD OF THE SAME

(Title of  
Invention)

(\*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 indicated otherwise below

\*filed on \_\_\_\_\_ [date], Serial No. \_\_\_\_\_

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(s) agrees to execute all papers necessary in connection with the application and any continuation, divisional, substitute, reissue or reexamination applications thereof or corresponding foreign applications, and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The ASSIGNOR(s) 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, substitute, reissue or reexamination thereof, or corresponding foreign applications, and also to cooperate with the ASSIGNEE in every way possible in obtaining evidence and going forward with such interference, litigation, or other legal proceeding.

The ASSIGNOR(s) agrees to perform all affirmative acts which may be necessary to obtain a grant of valid United States or foreign patents to the Assignee.

The ASSIGNOR(s) hereby authorizes and requests the Commissioner of Patents and the authorities of foreign countries to issue any and all Letters Patents resulting from said application or any continuation, divisional, substitute, reissue or reexamination applications thereof, or foreign applications, to the said ASSIGNEE, as assignee of the entire interest, and hereby covenants that it has full right to convey the entire interest herein assigned, and that they have not executed and will not execute, any agreement in conflict herewith.

The ASSIGNOR(s) hereby agrees that this Assignment is binding on the heirs, assigns, representatives and successors of the ASSIGNOR(s) and extends to the successors, assigns and nominees of the ASSIGNEE.

The ASSIGNOR(s) hereby grant MITCHELL P. BROOK, Reg. No. 32,967, LAURA L. PETERSON, Reg. No. 38,021, ADAM L.K. PHILIPP, Reg. No. 42,071, DAVID I. ROCHE, Reg. No. 30,767, PHILIP J. ZADEIK, Reg. No. 31,444 and RICHARD T. ROCHE, Reg. No. 38,599, all attorneys with the firm of BAKER & MCKENZIE which has an office address at 101 West Broadway, 12th Floor, San Diego, CA 92101-3890, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

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

(Signature)

Yukimasa Saito                      Yukimasa SAITO                      October 12, 1999  
(Signature)                                      (Type Name)                                      (Date)

Hitoshi Murata                      Hitoshi MURATA                      October 13, 1999  
(Signature)                                      (Type Name)                                      (Date)

Hiroyuki Yamamoto                      Hiroyuki YAMAMOTO                      October 12, 1999  
(Signature)                                      (Type Name)                                      (Date)

\_\_\_\_\_  
(Signature)                                      (Type Name)                                      (Date)

\_\_\_\_\_  
(Signature)                                      (Type Name)                                      (Date)

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