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To the Honorable Commissioner of Patents

... original documents or copy thereof.

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1. Name of conveying party(ies):  
Tsuneyuki OKABE  
Shigeyuki OKURA  
  
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 107-8481, 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: July 30, 2007 and August 6, 2007, respectively

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: July 30, 2007 and August 6, 2007, respectively  
A. Patent Application No.(s)  
B. Patent No.(s) 34 FC:8021 48.81 0P

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 [Signature] August 24, 2007  
Name of Person Signing Signature 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

### ASSIGNMENT

This assignment agreement is applicable to an invention entitled:

VAPORIZING APPARATUS AND SEMICONDUCTOR PROCESSING SYSTEM

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 \_\_\_\_\_, 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 ASSIGNEES referred to in this agreement are:

(Name of Assignee)  
(Address)

**Tokyo Electron Limited**  
**3-6, Akasaka 5-Chome**  
**Minato-Ku, Tokyo 107-8481**  
**JAPAN**

The ASSIGNEE is:

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

THIS IS PAGE 2 OF AN ASSIGNMENT FROM THE INVENTOR(S) TO  
TOKYO ELECTRON LIMITED

The ASSIGNOR(S), receipt of which is acknowledged, hereby assign(s) the following rights to the ASSIGNEES, their 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 ASSIGNEES as the assignee of the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEES, their successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEES, or their 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 ASSIGNEES, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEES, their 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.

Tsuneyuki OKABE

Name of sole or first inventor

*Tsuneyuki Okabe*

Signature

*Jul. 20, 2007*

Date

Shigeyuki OKURA

Name of second inventor

*Shigeyuki Okura*

Signature

*Aug. 06, 2007*

Date

PATENT

RECORDED: 08/24/2007

REEL: 019788 FRAME: 0369