



01-29-2008



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PATENTS ONLY

Form PTO-1595  
(Rev. 10/02)  
OMB No. 0651-0027 (exp. 6/30/2005)

DEPARTMENT OF COMMERCE  
S. Patent and Trademark Office

Attorney Docket : 033082 M 486DES

1. Name of conveying party(ies):

Mitsuhiro OKADA

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

1-23.08

2. Name and address of receiving party(ies)

Name: TOKYO ELECTRON LIMITED

Street Address: 3-6, Akasaka 5-Chome, Minato-Ku,

Tokyo 107-8481, Japan

3. Nature of conveyance:

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

Execution Date: November 6, 2007

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

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



This document is being filed together with a new application.

A. Patent Application No.(s) 29/290,252

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: Michael A. Makuch

Internal Address: SMITH, GAMBRELL &amp; RUSSELL, LLP

Street Address: 1130 Connecticut Avenue - Suite 1130

City: Washington State: DC Zip: 20036

6. Total number of applications and patents involved: - 1 -

7. Total fee (37 CFR 3.41) . . . . . \$40.00

☒ 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

January 23, 2008

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

235407

PATENT  
REEL: 020443 FRAME: 0404

**ASSIGNMENT**

This assignment agreement is applicable to an invention entitled:

**GAS SUPPLY PIPE FOR MANUFACTURING SEMICONDUCTOR WAFERS**

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)

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.

Mitsuhiro OKADA	<i>Mitsuhiro Okada</i>	Nov 6, 2007
Name of sole or first inventor	Signature	Date