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U.S. DEPARTMENT OF COMMERCE  
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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):

Naruaki Iida (05/07/2004), Kazuhiko Ito (05/07/2004), and Michio Kinoshita (05/07/2004)

Additional name(s) 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

City: Tokyo

Country: JAPAN

Zip: \_\_\_\_\_

Additional name(s) & address(es) attached:  Yes  No

3. Nature of Conveyance:

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

Execution Date: see Box 1, conveying parties

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

108454163

If this document is being filed together with a new application, the execution date of the new application is: May 7, 2004

A. Patent Application No.(s):  
NEW APPLICATION

B. Patent No.(s):

Additional numbers attached?  Yes  No

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

Name: Yoichiro Yamaguchi  
RADER, FISHMAN & GRAUER PLLC

Internal Address: Atty. Dkt.: KKH-0031

Street Address:  
1233 20th Street, N.W.  
Suite 501

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  
 Authorized to be charged to credit card  
(Form 2038 enclosed)

8. Deposit account number:

18-0013

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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.

Robert S. Green, Reg. No. 41,800  
Name of Person Signing

Signature

May 27, 2004  
Date

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

**ASSIGNMENT**

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in

**SUBSTRATE PROCESSING APPARATUS AND METHOD OF ALIGNING SUBSTRATE CARRIER APPARATUS**

for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address;

AND WHEREAS, **Tokyo Electron Limited**  
a Japanese corporation with offices at **3-6, Akasaka 5-chome, Minato-ku, Tokyo, Japan** (hereinafter referenced as ASSIGNEES) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of Ten Dollar (\$10.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEES, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEES, as the assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEES or its designee, as ASSIGNEES or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEES will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in this application to insert the serial number and filing date of this application in the spaces that follow: Serial Number: \_\_\_\_\_, Filing Date: \_\_\_\_\_.

This assignment executed on the dates indicated below.

**Naruaki IIDA**

Name of first inventor Execution date of U.S. Patent Application

**Kumamoto, Japan**

Residence of first inventor

*Naruaki Iida*

*May 7, 2004*

Signature of first inventor

Date of this assignment

**Kazuhiko ITO**

Name of second inventor Execution date of U.S. Patent Application

**Kumamoto, Japan**

Residence of second inventor

*Kazuhiko Ito*

*May 7, 2004*

Signature of second inventor

Date of this assignment

**Michio KINOSHITA**

Name of third inventor Execution date of U.S. Patent Application

**Kumamoto, Japan**

Residence of third inventor

*Michio Kinoshita*

*May 7, 2004*

Signature of third inventor

Date of this assignment