

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| | |
|-----------------------|----------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| Toshihisa NOZAWA | 08/03/2009 |
| Kotaro MIYATANI | 08/03/2009 |
| Toshiyasu HORI | 08/04/2009 |
| Shigekazu HIROSE | 08/04/2009 |

RECEIVING PARTY DATA

| | |
|-----------------|--------------------------------|
| Name: | TOKYO ELECTRON LIMITED |
| Street Address: | 3-6 Akasaka 5-chome, Minato-ku |
| City: | Tokyo |
| State/Country: | JAPAN |
| Postal Code: | 107-8481 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 12526471 |

CORRESPONDENCE DATA

Fax Number: (860)286-0115
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
 Phone: 860-286-2929
 Email: cldavenport@cantorcolburn.com
 Correspondent Name: CANTOR COLBURN, LLP
 Address Line 1: 20 Church Street, 22nd Floor
 Address Line 4: Hartford, CONNECTICUT 06103

| | |
|-------------------------|----------|
| ATTORNEY DOCKET NUMBER: | BPL-0032 |
|-------------------------|----------|

| | |
|--------------------|--------------|
| NAME OF SUBMITTER: | Jaegyoo Jang |
|--------------------|--------------|

Total Attachments: 3
 source=2CR9869#page1.tif

CH \$40.00 12526471

500932023

**PATENT
 REEL: 023070 FRAME: 0386**

source=2CR9869#page2.tif
source=2CR9869#page3.tif

ASSIGNMENT

WHEREAS We, Toshihisa NOZAWA of c/o TOKYO ELECTRON LIMITED
1-8, Fuso-cho, Amagasaki-shi, Hyogo 660-0891, Japan,

Kotaro MIYATANI of c/o TOKYO ELECTRON TECHNOLOGY
DEVELOPMENT INSTITUTE, INC., 650, Mitsuzawa, Hosaka-cho, Nirasaki-shi
Yamanashi 407-0192, Japan,

Toshiyasu HORI of c/o TOKYO ELECTRON TECHNOLOGY
DEVELOPMENT INSTITUTE, INC., 650, Mitsuzawa, Hosaka-cho, Nirasaki-shi
Yamanashi 407-0192, Japan and

Shigekazu HIROSE of c/o TOKYO ELECTRON TECHNOLOGY
DEVELOPMENT INSTITUTE, INC., 650, Mitsuzawa, Hosaka-cho, Nirasaki-shi
Yamanashi 407-0192, Japan(hereinafter referred to as "ASSIGNORS"); have invented
certain new and useful improvements in:

ETCHING METHOD AND RECORDING MEDIUM

which claims priority to Japanese Patent Application No. 2007-031162, filed on
February 9, 2007 and Japanese Patent Application No. 2007-123820, filed on
May 8, 2007, and for which We are about to file an application for Letters Patent of the United States;

AND WHEREAS, TOKYO ELECTRON LIMITED (hereinafter referred to as
"ASSIGNEE"), a corporation organized and existing under the laws of the Country of Japan,
having a place of business at Address: 3-6 Akasaka 5-chome, Minato-ku, Tokyo 107-8481,
Japan, is desirous of acquiring an interest in the United States and all foreign countries, in and
to the said invention and Letters Patent to be obtained therefor;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that, for
good and valuable consideration, the receipt of which is hereby acknowledged, We, the said
ASSIGNORS have assigned and transferred, and hereby assign and transfer unto the said

ASSIGNEE, the entire right, title and interest in and to said invention in the United States and in all foreign countries, including priority rights, as fully set forth and described in said application; and We do hereby authorize and request the Commissioner of Patents to issue said Letters Patent on said application, and any and all Letters Patent that may be issued upon any and all revivals, refilings, continuations, continuations-in-part, divisions and reissues thereof, to the said ASSIGNEE, an assignee of the entire right, title and interest in and to the same, for the sole use and behoof of ASSIGNEE, its successors and assigns; and We do hereby agree that the said ASSIGNEE, may apply for foreign Letters Patent on said invention and that We will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by the said ASSIGNEE, its successors or assigns, and that We will, at the cost and expense of the said ASSIGNEE fully assist and cooperate in all matters in connection with the United States and foreign applications and patents issuing thereon.

The undersigned declare that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: _____

Toshihisa NOZAWA

Date: 03/08/2009

Kotaro Miyatani
Kotaro MIYATANI

Date: 04/08/2009

Toshiyasu HORI
Toshiyasu HORI

Date: 04/08/2009

Shigekazu Hirose
Shigekazu HIROSE

ASSIGNEE, the entire right, title and interest in and to said invention in the United States and in all foreign countries, including priority rights, as fully set forth and described in said application; and We do hereby authorize and request the Commissioner of Patents to issue said Letters Patent on said application, and any and all Letters Patent that may be issued upon any and all revivals, refilings, continuations, continuations-in-part, divisions and reissues thereof, to the said ASSIGNEE, an assignee of the entire right, title and interest in and to the same, for the sole use and behoof of ASSIGNEE, its successors and assigns; and We do hereby agree that the said ASSIGNEE, may apply for foreign Letters Patent on said invention and that We will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by the said ASSIGNEE, its successors or assigns, and that We will, at the cost and expense of the said ASSIGNEE fully assist and cooperate in all matters in connection with the United States and foreign applications and patents issuing thereon.

The undersigned declare that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 3/8 / 2009

Toshihisa Nozawa
Toshihisa NOZAWA

Date: _____

Kotaro MIYATANI

Date: _____

Toshiyasu HORI

Date: _____

Shigekazu HIROSE