

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Aki AKIBA | 03/23/2012 |
| RECEIVING PARTY DATA | |
| Name: | TOKYO ELECTRON LIMITED |
| Street Address: | 3-1 Akasaka 5-chome, Minato-ku |
| City: | Tokyo |
| State/Country: | JAPAN |
| Postal Code: | 107-6325 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 13419547 |
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| Total Attachments: 2 source=Assignment_BPL0152#page1.tif source=Assignment_BPL0152#page2.tif | |

CH \$40.00 13419547

ASSIGNMENT

WHEREAS I,

Aki AKIBA of c/o Tokyo Electron Miyagi Limited, 1 Techno Hills, Taiwa-cho, Kurokawa-gun, Miyagi 981-3629, Japan, (hereinafter referred to as "ASSIGNOR"); have invented certain new and useful improvements in:

**ETCHING METHOD, ETCHING APPARATUS, AND
COMPUTER-READABLE RECORDING MEDIUM**

which claims priority to **Japanese Patent Application No. 2011-055516, filed on March 14, 2011,** and **U.S. Patent Application No. 61/469141, filed on March 30, 2011,** for which I am 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: 3-1 Akasaka 5-chome, Minato-ku, Tokyo 107-6325, 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, I, the said ASSIGNOR 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 I 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 I do hereby agree that the said ASSIGNEE, may apply for foreign Letters Patent on said invention and that I 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 I 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: Mar. 23. 2012

Aki Akiba
Aki AKIBA

Date: _____

Date: _____

Date: _____
