10/17/2016 504052915

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MITSURU SASAKI	10/11/2016
TATSUYA MIURA	10/11/2016
TOSHIHIRO OHNO	10/14/2016
KAZUMUNE ONO	10/11/2016
SHOKO ENDO	10/07/2016
RYU KITAHARA	10/07/2016

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:	15304570

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	16EL-013
NAME OF SUBMITTER:	HERMAN PARIS
SIGNATURE:	/Herman Paris/
DATE SIGNED:	10/17/2016

PATENT REEL: 040031 FRAME: 0222 504052915

Total Attachments: 12 source=16EL-013AssignmentRecordation#page1.tif source=16EL-013AssignmentRecordation#page2.tif source=16EL-013AssignmentRecordation#page3.tif source=16EL-013AssignmentRecordation#page4.tif source=16EL-013AssignmentRecordation#page5.tif source=16EL-013AssignmentRecordation#page6.tif source=16EL-013AssignmentRecordation#page7.tif source=16EL-013AssignmentRecordation#page8.tif source=16EL-013AssignmentRecordation#page9.tif source=16EL-013AssignmentRecordation#page10.tif source=16EL-013AssignmentRecordation#page11.tif source=16EL-013AssignmentRecordation#page11.tif

PATENT REEL: 040031 FRAME: 0223

THIS ASSIGNMENT, by _(1) Mitsuru SASAKI, (2) Tatsuya MIURA, (3) Toshihiro OHNO, (4) Kazumune ONO, (5) Shoko ENDO, and (6) Ryu KITAHARA, (hereinafter referred to as "Assignors"), residing at _(1) Kurokawa-gun, Miyagi, Japan, (2) Kurokawa-gun, Miyagi, Japan, (3) Sapporo-shi, Hokkaido, Japan, (4) Kurokawa-gun, Miyagi, Japan, (5) Kurokawa-gun, Miyagi, Japan, and (6) Kurokawa-gun, Miyagi, Japan, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in SUBSTRATE PROCESSING APPARATUS, SUBSTRATE PROCESSING METHOD AND SUBSTRATE PROCESSING PROGRAM,

(Application No.	, filed	•

set forth in a patent application for Letters Patent of the United States, either previously filed or executed concurrently herewith; and

WHEREAS, Tokyo Electron Limited (hereinafter referred to as "Assignee"), having offices at 3-1, Akasaka 5-chome, Minato-ku, Tokyo 107-6325 Japan, is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor and thereon;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations, continued prosecutions, and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and Assignment not been made;

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives, and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns shall advise; that any proceeding in connection with said inventions, or said patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation, continued prosecutions, or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable;

AND Assignors hereby request that the Director of the United States Patent and Trademark Office issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the said Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns;

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document: All practitioners associated with the Customer Number 77464.

2016/10/11 Date	Mitsuru Sasaki Mitsuru SASAKI	
Date	Tatsuya MIURA	
Date	Toshihiro OHNO	

Date	Kazumune ONO
Date	Shoko ENDO
Data	Dana KITAHAD A

THIS ASSIGNMENT, by (1) Mitsuru SASAKI, (2) Tatsuya MIURA, (3) Toshihiro OHNO, (4) Kazumune ONO, (5) Shoko ENDO, and (6) Ryu KITAHARA, (hereinafter referred to as "Assignors"), residing at (1) Kurokawa-gun, Miyagi, Japan, (2) Kurokawa-gun, Miyagi, Japan, (3) Sapporo-shi, Hokkaido, Japan, (4) Kurokawa-gun, Miyagi, Japan, (5) Kurokawa-gun, Miyagi, Japan, and (6) Kurokawa-gun, Miyagi, Japan, respectively;

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Date	Mitsuru SASAKI
October 11, 2016 Date	<u>Tatsuya</u> Miura Tatsuya MIURA
Date	Toshihiro OHNO

Date	Kazumune ONO
Date	Shoko ENDO
Date	Dam KITALIAD A

THIS ASSIGNMENT, by (1) Mitsuru SASAKI. (2) Tatsuya MIURA. (3) Toshihiro OHNO, (4) Kazumune ONO, (5) Shoko ENDO, and (6) Ryu KITAHARA, (hereinafter referred to as "Assignors"), residing at (1) Kurokawa-gun, Miyagi, Japan, (2) Kurokawa-gun, Miyagi, Japan, (3) Sapporo-shi, Hokkaido, Japan, (4) Kurokawa-gun, Miyagi, Japan, (5) Kurokawa-gun, Miyagi, Japan, and (6) Kurokawa-gun, Miyagi, Japan, respectively;

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(Addition no.	, filed	

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Date	Mitsuru SASAKI
Date	Tatsuya MIURA
October 14 2016	Toshibiro Ohno
Date	Toshihiro OHNO

Oct. 11, 20/6	Kazumune Ono
Date	Kazumune ONO
Date	Shoko ENDO
Date	Ryu KITAHARA

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Date	Mitsuru SASAKI
Date	Tatsuya MIURA
Date	Toshihiro OHNO

Date	Kazumune ONO
Oct. 7, 2016	Shoko Endo
Date	Shoko ENDO
Oct. 7, 2016	Ryn Kitahara Ryn KITAHARA
Date	RVIKITAHARA