### PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ROBERT CLARK	04/15/2019
KANDABARA TAPILY	04/18/2019
KAI-HUNG YU	04/26/2019

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Postal Code:	107-6325

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16357724

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	180801US03
NAME OF SUBMITTER:	JORDAN GREGGERSEN
SIGNATURE:	/Jordan Greggersen/
DATE SIGNED:	08/02/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 4** 

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PATENT REEL: 049946 FRAME: 0547 source=180801US03\_Declaration\_Assignment-Signed#page2.tif source=180801US03\_Declaration\_Assignment-Signed#page3.tif source=180801US03\_Declaration\_Assignment-Signed#page4.tif

> PATENT REEL: 049946 FRAME: 0548

## <u>DECLARATION (37 CFR 1.63) AND ASSIGNMENT FOR</u> <u>NONPROVISIONAL UTILITY OR DESIGN PATENT APPLICATION</u>

# PLATFORM AND METHOD OF OPERATING FOR INTEGRATED END-TO-END FULLY SELF-ALIGNED INTERCONNECT PROCESS

As a below named inventor, I hereby declare that:
This declaration and assignment is directed to:
The attached application having a docket number and title identified above, or United States application number or PCT international application number filed on
The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified application.

I have reviewed and understand the contents of the above-identified application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56.

I hereby acknowledge that any willful false statement made in this Declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

**Assignor(s)**: The Assignor(s) is/are the undersigned inventor(s). The inventor(s) named below has/have made certain inventions, improvements, and/or discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application.

Assignee: The Assignee is Tokyo Electron Limited, a corporation of Japan having a place of business at Tokyo, Japan (herein referred to as the "ASSIGNEE"). The term "ASSIGNEE" used herein includes successors, legal representatives, and assigns of the ASSIGNEE. The ASSIGNEE desires to acquire the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents obtained from the Invention.

As an undersigned inventor, I hereby assign to the ASSIGNEE my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefrom in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, granted for the invention, to the ASSIGNEE, and I authorize and request foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE. The entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made. I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or

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perfecting title to the Invention and all related patents and applications, for the ASSIGNEE, whenever requested by the ASSIGNEE.

As an undersigned inventor, I acknowledge prior and ongoing obligations to sell, assign, and/or transfer my rights in the Invention to the ASSIGNEE. I have not sold, assigned, or otherwise transferred my rights in the Invention to another, and I am under no obligation to sell, assign, or otherwise transfer my rights in the Invention to another. I also hereby grant the ASSIGNEE, the right to insert in this Declaration and Assignment any further identification (including, but not limited to, patent application number and filing date) which may be necessary or desirable for recording this Declaration and Assignment.

(1) Legal name of Inventor:	Robert Clark
Inventor's Signature:	1/1 Date: 4/15/2019
Residence City/State/Country:	Fremont, CA, US
Mailing Address:	2859 Bayview Drive, Fremont, CA 94538, US
Mailing Address:	
Citizenship:	
(2) Legal name of Inventor:	Kandabara Tapily
Inventor's Signature:	Date:
Residence City/State/Country:	Albany, NY, US
Mailing Address:	NanoFab 300 South
Mailing Address:	255 Fuller Road, Suite 214, Albany, NY 12203, US
Citizenship:	
(3) Legal name of Inventor:	Kai-Hung Yu
Inventor's Signature:	Date:
Residence City/State/Country:	Albany, NY, US
Mailing Address:	NanoFab 300 South
Mailing Address:	255 Fuller Road, Suite 214, Albany, NY 12203, US
Citizenship:	

# DECLARATION (37 CFR 1.63) AND ASSIGNMENT FOR NONPROVISIONAL UTILITY OR DESIGN PATENT APPLICATION

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**Assignee**: The Assignee is **Tokyo Electron Limited**, a corporation of Japan having a place of business at Tokyo, Japan (herein referred to as the "ASSIGNEE"). The term "ASSIGNEE" used herein includes successors, legal representatives, and assigns of the ASSIGNEE. The ASSIGNEE desires to acquire the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents obtained from the Invention.

As an undersigned inventor, I hereby assign to the ASSIGNEE my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefrom in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, granted for the invention, to the ASSIGNEE, and I authorize and request foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE. The entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made. I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or

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(1) Legal name of inventor:	Robert Clark	
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Citizenship:		
(0) I and many of the control		
(2) Legal name of Inventor:	Kandabara Tapily	
Inventor's Signature:	Date: 4-18-2019	
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