

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5843602

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TOMONORI NAKAMURA	10/29/2019
TAKEHITO SHIMATSU	06/26/2019
MIYUKI UOMOTO	06/26/2019
RECEIVING PARTY DATA	
Name:	SHINKAWA LTD.
Street Address:	51-1, INADAIRA 2-CHOME, MUSASHIMURAYAMA-SHI,
City:	TOKYO
State/Country:	JAPAN
Postal Code:	208-8585
Name:	TOHOKU UNIVERSITY
Street Address:	2-1-1, KATAHIRA, AOBA-KU, SENDAI-SHI,
City:	MIYAGI
State/Country:	JAPAN
Postal Code:	980-8577
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16482246
CORRESPONDENCE DATA	
Fax Number:	(949)391-4699
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
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Address Line 4:	TAIPEI CITY, TAIWAN 10099
ATTORNEY DOCKET NUMBER:	76381-US-1615-PCT
NAME OF SUBMITTER:	BELINDA LEE
SIGNATURE:	/Belinda Lee/
DATE SIGNED:	11/28/2019

Total Attachments: 4

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**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

Declaration Submitted With Initial Filing

OR

Declaration Submitted After Initial Filing (surcharge 37 CFR 1.16(f) required)

(Title of the Invention)

**SEMICONDUCTOR-DEVICE MANUFACTURING METHOD AND
MANUFACTURING APPARATUS**

As a below named inventor (hereinafter designated as the undersigned), I hereby declare that:

This declaration is directed to:

The attached application,

OR

United States Application Number or PCT International application number

PCT/JP2018/002968 Filed on January 30,2018

The above-identified application was made or authorized to be made by me.

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

The undersigned 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.

**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.

WHEREAS, SHINKAWA LTD. (Name of Assignee)

of 51-1, Inadaira 2-chome, Musashimurayama-shi, Tokyo, 208-8585, Japan (Address of Assignee)

WHEREAS, TOHOKU UNIVERSITY (Name of Assignee)

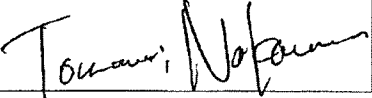
of 2-1-1, Katahira, Aoba-ku, Sendai-shi, Miyagi 980-8577 Japan (Address of Assignee)

hereinafter referred to as ASSIGNEE, is desirous of acquiring the undersigned's interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same:

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by the undersigned, the undersigned has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their rights, title and interest in and to the said invention and application and all future improvements thereon, and in and to any Letters Patent which may hereafter be granted on the same in the United States, the said rights, title and interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said the undersigned had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

The undersigned further agrees/agree that he/she/they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee Lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

Signature:		Date:	October 29, 2019
Legal Name of Solo or First Inventor: Tomonori NAKAMURA			

**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

and improvement, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

Signature:		Date:	
Legal Name of Sole or First Inventor: Tomonori NAKAMURA			
Signature:	<i>Takehito Shimatsu</i>	Date:	<i>26th, June 2019</i>
Legal Name of Additional Inventor: Takehito SHIMATSU			
Signature:	<i>Miyuki Uomoto</i>	Date:	<i>26th, June 2019</i>
Legal Name of Additional Inventor: Miyuki UOMOTO			