

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5863756

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MASATAKA HIGASHIWAKI	09/27/2019
YOSHIKI NAKATA	10/01/2019
TAKAFUMI KAMIMURA	10/01/2019
MAN HOI WONG	09/27/2019
KOHEI SASAKI	11/15/2019
DAIKI WAKIMOTO	11/14/2019

RECEIVING PARTY DATA

Name:	NATIONAL INSTITUTE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY
Street Address:	4-2-1, NUKUI-KITAMACHI, KOGANEI-SHI
City:	TOKYO
State/Country:	JAPAN
Postal Code:	184-8795
Name:	TAMURA CORPORATION
Street Address:	1-19-43, HIGASHI-OIZUMI, NERIMA-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	178-8511
Name:	NOVEL CRYSTAL TECHNOLOGY, INC.
Street Address:	2-3-1, HIROSEDAI, SAYAMA-SHI
City:	SAITAMA
State/Country:	JAPAN
Postal Code:	350-1328

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16608556

CORRESPONDENCE DATA

Fax Number: (516)742-4366

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 516-742-4343
Email: chudson@ssmp.com
Correspondent Name: SCULLY SCOTT MURPHY & PRESSER, PC
Address Line 1: 400 GARDEN CITY PLAZA
Address Line 2: SUITE 300
Address Line 4: GARDEN CITY, NEW YORK 11530

ATTORNEY DOCKET NUMBER:	37898
NAME OF SUBMITTER:	PAUL J. ESATTO, JR.
SIGNATURE:	/Paul J. Esatto, Jr./
DATE SIGNED:	12/12/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4

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**COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN
APPLICATION AND ASSIGNMENT**

As a below named inventor, I hereby declare that:

This declaration the attached application, or
is directed to:

United States application or PCT international application number
PCT/JP2018/017007 filed on April 26, 2018; and

entitled: GA₂O₃-BASED SEMICONDUCTOR DEVICE

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 application.

I hereby state that 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 CFR 1.56.

Whereas, the undersigned inventor(s) has/have made certain inventions, improvements and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application;


Whereas, NATIONAL INSTITUTE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY, a corporation of Japan, having a place of business at 4-2-1, Nukui-Kitamachi, Koganei-shi, Tokyo, 184-8795, Japan and TAMURA CORPORATION, a corporation of Japan, having a place of business at 1-19-43, Higashi-Oizumi, Nerima-ku, Tokyo 178-8511, Japan and NOVEL CRYSTAL TECHNOLOGY, INC., a corporation of Japan, having a place of business at 2-3-1 Hirosedai, Sayama-shi, Saitama 350-1328, Japan, desires to acquire, and each undersigned inventor desires to grant to NATIONAL INSTITUTE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY and TAMURA CORPORATION and Novel Crystal Technology, Inc., the entire worldwide right, title and interest in and to any and all patent applications and patents directed thereto;

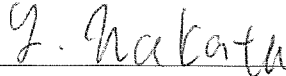
Now, therefore, in consideration of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, each undersigned inventor ("ASSIGNOR") hereby sells, assigns and transfers to NATIONAL INSTITUTE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY and TAMURA CORPORATION and NOVEL CRYSTAL TECHNOLOGY, INC. (the "ASSIGNEE"), its successors, assigns and legal representatives, the entire right, title and interest for all countries, 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


therefor in the United States and in all foreign countries and jurisdictions, including all divisional, continuing, substitute, reexamination, renewal, reissue and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Commissioner of Patents to issue, in accordance with this assignment, any and all United States Letters Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention to said Assignee, the corporation above named, its successors, assigns and legal representatives; and agreeing to carry out in good faith the intent and purpose of this assignment, the undersigned will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee its successors, assigns and representatives, all facts known to the undersigned relating to said improvements and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

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.

Legal name of sole or first inventor Masataka HIGASHIWAKI	
Sole or first inventor's signature 	Date Sep. 27, 2019

Legal name of second inventor Yoshiaki NAKATA	
Second inventor's signature	Date Oct. 1, 2019

Legal name of third inventor Takafumi KAMIMURA	
Third inventor's signature 	Date Oct. 1, 2019

Legal name of fourth inventor Man Hoi WONG	
Fourth inventor's signature	Date

granted therefor in the United States and in all foreign countries and jurisdictions, including all divisional, continuing, substitute, reexamination, renewal, reissue and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Commissioner of Patents to issue, in accordance with this assignment, any and all United States Letters Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention to said Assignee, the corporation above named, its successors, assigns and legal representatives; and agreeing to carry out in good faith the intent and purpose of this assignment, the undersigned will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee its successors, assigns and representatives, all facts known to the undersigned relating to said improvements and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

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.

Legal name of sole or first inventor Masataka HIGASHIWAKI	
Sole or first inventor's signature	Date

Legal name of second inventor Yoshiaki NAKATA	
Second inventor's signature	Date

Legal name of third inventor Takafumi KAMIMURA	
Third inventor's signature	Date

Legal name of fourth inventor Man Hoi WONG	
Fourth inventor's signature <i>Man Hoi Wong</i>	Date September 27 th , 2019

Legal name of fifth inventor Kohei SASAKI	
Fifth inventor's signature <i>Kohei Sasaki</i>	Date 2019/11/15

Legal name of sixth inventor Daiki WAKIMOTO	
Sixth inventor's signature Daiki WAKIMOTO	Date 2019/11/14