506394229 12/09/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6440985

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TAKAHIKO SHINDO	05/20/2020
NAOKI FUJIWARA	05/20/2020
KIMIKAZU SANO	08/11/2020
HIROYUKI ISHII	05/19/2020
HIDEAKI MATSUZAKI	05/28/2020
TAKASHI YAMADA	09/07/2020
KENGO HORIKOSHI	06/26/2020

RECEIVING PARTY DATA

Name:	NIPPON TELEGRAPH AND TELEPHONE CORPORATION	
Street Address:	ess: 5-1, OTEMACHI 1-CHOME	
Internal Address:	CHIYODA-KU	
City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	1008116	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16978339

CORRESPONDENCE DATA

Fax Number: (801)328-1707

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.

Phone: 801-533-9800
Email: dwilson@wnlaw.com
Correspondent Name: WORKMAN NYDEGGER
Address Line 1: 60 EAST SOUTH TEMPLE

Address Line 2: SUITE 1000

Address Line 4: SALT LAKE CITY, UTAH 84111

ATTORNEY DOCKET NUMBER:	14321.278
NAME OF SUBMITTER:	DANA L. TANGREN
SIGNATURE:	/dana I. tangren/

506394229 REEL: 054596 FRAME: 0780

DATE SIGNED:	12/09/2020	
	This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 7	•	
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Title of Invention SEMICONDUCTOR INTEGRATED OPTICS ELEMENT AND PRODUCTION METHOD		
THEREFOR		
As the 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/JP2019/007910 filed on February 28, 2019		
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.		
WHEREAS, NIPPON TELEGRAPH AND TELEPHONE CORPORATION		
(hereinafter referred to as "ASSIGNEE") having places of business at: 5-1, Otemachi 1-chome, Chiyoda-ku, Tokyo 1008116, JP, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;		
NOW, THEREFORE, for good, valuable, and adequate consideration, the receipt of which is hereby acknowledged, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.		
I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.		
Further, I agree that I will communicate to said ASSIGNEE or its representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.		
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 INVENTOR		
Inventor: Takahiko SHINDO Date: 20 May 2020		
Signature: Jakahiko Shisho		

Treat of	
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LEGAL NAME OF INVENTOR	
Inventor: Nacki FUJIWARA Date: 20th. May . 2020	
Signature: Naoki Fujiwara	

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I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1 by fine or imprisonment of not more than five (5) years, or both. LEGAL NAME OF INVENTOR	.001	
Inventor: Kimikazu SANO Date: August // 2020		
Signature: Kimikazu Sano		

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A STATE OF THE PERSON NAMED IN	As the below named inventor, I hereby declare that:
To the second second	This declaration The attached application, or
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And the second s	(hereinafter referred to as "ASSIGNEE") having places of business at: 5-1, Otemachi 1-chome, Chiyoda-ku, Tokyo 1008116, JP, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;
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***************************************	I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Further, I agree that I will communicate to said ASSIGNEE or its representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.
***************************************	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.
	Inventor: Hiroyuki ISHII Date: May 19, 2020
***************************************	Signature: Advoyuki Ishii

Title of		
Invention	SEMICONDUCTOR INTEGRATED OPTICS ELEMENT AND PRODUCTION METHOD THEREFOR	
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1008116, JP, is des	ed to as "ASSIGNEE") having places of business at: 5-1, Otemachi 1-chome, Chiyoda-ku, Tokye sirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters e granted therefore in the United States and its territorial possessions and in any and all foreign	
I, by these presents in the United State under the terms of aforesaid applicati therefor in the Uni	FORE, for good, valuable, and adequate consideration, the receipt of which is hereby acknowledged as do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention as and its territorial possessions and in all foreign countries (including the right to claim priority the International Convention and other relevant International Treaties and Arrangements from the con) and the entire right, title and interest in and to any and all Letters Patent which may be granted ited States and its territorial possessions and in any and all foreign countries and in and to any and ues, continuations, substitutions and renewals thereof.	
and all foreign cot of my entire right, and assigns, to the	ize and request the Patent Office Officials in the United States and its territorial possessions and any intries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assigned title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors full end of the term for which said Letters Patent may be granted, as fully and entirely as the same all by me had this Assignment and sale not been made.	
said invention, an substitute, renewal Patent to be issue ASSIGNEE, its su	that I will communicate to said ASSIGNEE or its representatives any facts known to me respecting of testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, I and reissue applications, execute all necessary assignment papers to cause any and all of said Letters of to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said accessors and assigns, to obtain and enforce proper protection for said invention in the United States cossessions and in any and all foreign countries.	
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Inventor: <u>Hideaki</u> Signature:	Hilm to Justing to 1200	

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LEGAL NAME OF INVENTOR	
Inventor: Takashi YAMADA Date: September 7, 2020	
Signature: Takashi Yamada	

	Title of Invention SEMICONDUCTOR INTEGRATED OPTICS ELEMENT AND PRODUCTION METHOD
-	As the below named inventor, I hereby declare that:
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	Inventor: Kengo HORIKOSHI Date:
	Signature: Signature:

PATENT REEL: 054596 FRAME: 0788

RECORDED: 12/09/2020