506659786 05/12/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6706599

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MASATO TAKIGUCHI	02/02/2021
MASAYA NOTOMI	02/22/2021
SATOSHI SASAKI	02/02/2021
KOTA TATENO	02/04/2021
ATSUSHI YOKOO	02/09/2021
GUOQIANG ZHANG	02/03/2021
SERGENT SYLVAIN	02/05/2021
AKIHIKO SHINYA	02/19/2021

RECEIVING PARTY DATA

Name:	NIPPON TELEGRAPH AND TELEPHONE CORPORATION
Street Address:	5-1, OTEMACHI 1-CHOME, CHIYODA-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	100-8116

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17293399

CORRESPONDENCE DATA

Fax Number: (972)732-9218

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: 972-732-1001

Email: docketing@slatermatsil.com **Correspondent Name:** SLATER MATSIL, LLP - NTT

Address Line 1: 17950 PRESTON RD, SUITE 1000 Address Line 4: DALLAS, TEXAS 75252-5793

ATTORNEY DOCKET NUMBER:	NTT5196798US1
NAME OF SUBMITTER:	CINDY STOUTEN
SIGNATURE:	/Cindy Stouten/

PATENT 506659786 REEL: 056220 FRAME: 0303

DATE SIGNED:	05/12/2021	
Total Attachments: 8		
source=NTT5196798US1-Declaration-A	source=NTT5196798US1-Declaration-Assignment#page1.tif	
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ource=NTT5196798US1-Declaration-Assignment#page8.tif		

Title of Invention	NANOWIRE OPTICAL DEVICE				
As the below named	As the below named inventor, I hereby declare that:				
This declaration \Box	The attached application, or				
is directed to:	United States application or PCT international application number PCT/3P2019/042779 filed on October 31, 2019				
The above-identified	f application was made or authorized to be made by me.				
WHEREAS, NIPPO "ASSIGNEE") bavidesirous of acquiring	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 I-chome, Chiyoda-ku, Tokyo 100-8116 Japan, 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.					
and all foreign coun of my entire right, ti and assigns, to the f	e and request the Patent Office Officials in the United States and its territorial possessions and any tries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee itie and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors all end of the term for which said Letters Patent may be granted, as fully and entirely as the same id by me had this Assignment and sale not been made.				
Further, Lagree 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.					
	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 nent of not more than five (5) years, or both.				
LEGAL NAME OF	INVENTOR				
Inventor: Masato	TAKIGUCHI Date: 202 2 2				
Signature:	MantaTakiqudu				

Title of Invention	NANOWIRE OPTICAL DEVICE		
As the below name	d inventor, I hereby declare that:		
This declaration	The attached application, or		
is directed to:	United States application or PCT international application number <u>PCT/JP2019/042779</u> filed on <u>October 31, 2019</u>		
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in the United State under the terms of aforesaid application therefor in the United	do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention is 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 part of the entire right, title and interest in and to any and all Letters Patent which may be granted ted States and its territorial possessions and in any and all foreign countries and in and to any and es, continuations, substitutions and renewals thereof.		
and all foreign cour of my entire right, and assigns, to the	ze and request the Patent Office Officials in the United States and its territorial possessions and any ntries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee 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 eld 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.			
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LEGAL NAME O	FINVENTOR		
Inventor: Masay	a NOTOMI Date: Feb. 22. 202/		
Signature: M	Notous		

	Title of Invention	NANOWIRE OPTICAL DEVIC	E		
ľ	As the below name	d inventor, I hereby declare that:			
١	This declaration	The attached application, or			
	is directed to:	United States application or PC on October 31, 2019	Γ international application r	number <u>PCT/JP2019</u>	<u>9/042779</u> filed
	The above-identifie	ed application was made or author	ized to be made by me.		
	WHEREAS, NIPPO "ASSIGNEE") hav desirous of acquiring may be granted the	the original inventor or an original ON TELEGRAPH AND TELEPH ving places of business at: 5-1, Otong the entire right, title and interes refore in the United States and its	ONE CORPORATION (he emachi 1-chome, Chiyoda-lt in and to said invention ar territorial possessions and i	reinafter referred to ku, Tokyo 100-811 nd in and to any Le in any and all foreig	o as 6 Japan, is tters Patent that gn countries;
	I, by these presents in the United State under the terms of aforesaid application therefor in the Unit	FORE, for good, valuable, and adec do sell, assign and transfer unto sees and its territorial possessions at the International Convention and on) and the entire right, title and in ted States and its territorial possesses, continuations, substitutions an	aid ASSIGNEE, the full and in all foreign countries other relevant International aterest in and to any and all sions and in any and all for	d exclusive right to (including the righ I Treaties and Arrai Letters Patent whi	the said invention at to claim priority ngements from the ch may be granted
	and all foreign cour of my entire right, and assigns, to the	ze and request the Patent Office O ntries to issue any and all of said I title and interest in and to the sam full end of the term for which said eld by me had this Assignment an	Letters Patent, when grante e, for the sole use and beho I Letters Patent may be gran	d, to said ASSIGN oof of said ASSIGN	EE as the assignee IEE, its successors
	said invention, and substitute, renewal Patent to be issued ASSIGNEE, its sud	that I will communicate to said AS d testify in any legal proceeding and reissue applications, execute a d to said ASSIGNEE, make all recessors and assigns, to obtain and ossessions and in any and all foreign.	g, sign all lawful papers, ill necessary assignment pap ightful oaths, and, generall enforce proper protection	execute all division pers to cause any and ly do everything p	onal, continuation, d all of said Letters ossible to aid said
		wledge that any willful false staten iment of not more than five (5) yea		n is punishable und	ier 18 U.S.C. 1001
	LEGAL NAME O	F INVENTOR			
		ni SASAKI	Date	: 2021. 2.	<u> </u>
	Signature:	toshi Jasaki			

Title of Invention	NANOWIRE OPTICAL DEVICE		
As the below name	d inventor, I hereby declare that:		
This declaration	The attached application, or		
is directed to:	United States application or PCT international appli on October 31, 2019	cation number PCT/JP2019/042779 filed	
The above-identifie	ed application was made or authorized to be made by	me.	
WHEREAS, NIPPo "ASSIGNEE") hav desirous of acquiring may be granted the	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 100-8116 Japan, 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.			
and all foreign cou of my entire right, and assigns, to the	ze and request the Patent Office Officials in the United ntries to issue any and all of said Letters Patent, when title and interest in and to the same, for the sole use a full end of the term for which said Letters Patent may eld by me had this Assignment and sale not been mad	n granted, to said ASSIGNEE as the assignee and behoof of said ASSIGNEE, its successors be granted, as fully and entirely as the same	
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.			
	vledge that any willful false statement made in this de iment of not more than five (5) years, or both.	claration is punishable under 18 U.S.C. 1001	
LEGAL NAME O	F INVENTOR		
Inventor: Kota 7	rateno	Date: 4, Feb , 202	
Signature:	Konta Tateno		

Title of Invention	NANOWIRE OPTICAL DEVICE
As the below name	d inventor, I hereby declare that:
This declaration [The attached application, or
is directed to:	United States application or PCT international application number PCT/JP2019/042779 filed on October 31, 2019
The above-identifie	ed application was made or authorized to be made by me.
WHEREAS, NIPPO "ASSIGNEE") hav desirous of acquiring	the original inventor or an original joint inventor of a claimed invention in the application. ON TELEGRAPH AND TELEPHONE CORPORATION (hereinafter referred to as ring places of business at: 5-1, Otemachi 1-chome, Chiyoda-ku, Tokyo 100-8116 Japan, is ng the entire right, title and interest in and to said invention and in and to any Letters Patent that refore in the United States and its territorial possessions and in any and all foreign countries;
I, by these presents in the United State under the terms of aforesaid application therefor in the United	FORE, for good, valuable, and adequate consideration, the receipt of which is hereby acknowledged, 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 on) and the entire right, title and interest in and to any and all Letters Patent which may be granted ted States and its territorial possessions and in any and all foreign countries and in and to any and es, continuations, substitutions and renewals thereof.
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LEGAL NAME O	
Inventor: Atsush	ni YOKOO Date: 2021.2.9
Ciamatuma,	ACID-

Title of Invention	NANOWIRE OPTICAL DEVICE		
As the below name	As the below named inventor, I hereby declare that:		
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LEGAL NAME O	F INVENTOR		
	ang ZHANG Date: Teb 3, 2021		
Signature:	ioglary zheme		

NANOWIRE OPTICAL DEVICE

by fine or imprisonment of not more than five (5) years, or both.

LEGAL NAME OF INVENTOR

Inventor: Sergent SYLVAIN

Signature: _

Title of

	Invention	NANOWIRE OF IICAL DEVICE
As the below named inventor, I hereby declare that:		
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I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001

PATENT REEL: 056220 FRAME: 0311

Date: S Pinter 2021

SHEET (37 CFK 1.70) AND ASSIGNMENT FOR SINGLE ASSIGNEE		
Title of Invention	NANOWIRE OPTICAL DEVICE	
As the below names	inventor, I hereby declare that:	
This declaration	The attached application, or	
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LEGAL NAME OF	INVENTOR	
	o SHINYA Date: 19/2/2021	
Signature: 事	一家昭多	

PATENT REEL: 056220 FRAME: 0312

RECORDED: 05/12/2021