507552542 10/19/2022

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7599431

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NOBUTATSU KOSHOBU	08/21/2020
KOJI EMBUTSU	08/21/2020
TAKESHI UMEKI	08/21/2020
OSAMU TADANAGA	08/21/2020
TAKAHIRO KASHIWAZAKI	08/21/2020
TAKUSHI KAZAMA	08/25/2020
ASUKA INOUE	08/21/2020

RECEIVING PARTY DATA

Name:	NIPPON TELEGRAPH AND TELEPHONE CORPORATION
Street Address:	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:	17919965

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, SUITE 1000

Address Line 4: SALT LAKE CITY, UTAH 84111

ATTORNEY DOCKET NUMBER:	14321.359
NAME OF SUBMITTER:	DANA L. TANGREN
SIGNATURE:	/dana I. tangren/

PATENT 507552542 REEL: 061473 FRAME: 0799

DATE SIGNED: 10/19/2022	
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 7	
source=14321-359_declarati	on-assignment#page1.tif
source=14321-359_declarati	on-assignment#page2.tif
source=14321-359_declarati	on-assignment#page3.tif
source=14321-359_declarati	on-assignment#page4.tif
source=14321-359_declaration-assignment#page5.tif	
source=14321-359_declaration-assignment#page6.tif	
source=14321-359_declaration-assignment#page7.tif	

Title of Invention WAVELENGTH CONVERTER			
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/IP2020/017284 filed on April 22, 2020			
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, 3P, 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: KOSHOBU Nobutalsu Date: 2020 / 8 / 2 /			
Signature: nobulatou Hoshobu.			

Invention	WAVELENGTH CONVERTER		
As the below name	ned inventor, I hereby declare that:		
This declaration [The attached application, or		
is directed to:	United States application or PCT international application April 22, 2020	on number PCT/JP2020/017284 filed on	
The above-identifie	fied application was made or authorized to be made by me.		
I believe that I am t	n the original inventor or an original joint inventor of a claim	ned invention in the application.	
WHEREAS, NIP	<u>IPPON TELEGRAPH AND TELEPHONE CORPORATIO</u>	N	
(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.			
by fine or imprison	owledge that any willful false statement made in this declara nment of not more than five (5) years, or both.	tion is punishable under 18 U.S.C. 1001	
LEGAL NAME OF	·		
Inventor: EMBUTS	<u>FSU Koji</u> I	Date: 2020 / 8 / 2]	
Signature: <u> </u>	oji Enbutsu		

Title of Invention	WAVELENGTH CONVERTER	
As the below name	od inventor, I hereby declare that:	
This declaration	The attached application, or	
is directed to:	United States application or PCT international application number PCT/JP2020/017284 filed on April 22 , 2020	
The above-identific	ed 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.	
(hereinafter referre 1008116, JP, is des	PPON TELEGRAPH AND TELEPHONE CORPORATION Indicated to as "ASSIGNEE") having places of business at: 5-1, Otemachi 1-chome, Chiyoda-ku, Tokyo clirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters it 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 application therefor in the Uni	FORE, for good, valuable, and adequate consideration, the receipt of which is hereby acknowledged, is 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 ted States and its territorial possessions and in any and all foreign countries and in and to any and ses, 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.		
said invention, an substitute, renewal Patent to be issued ASSIGNEE, its sue	that I will communicate to said ASSIGNEE or its representatives any facts known to me respecting d testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, and reissue applications, execute all necessary assignment papers to cause any and all of said Letters d 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 ossessions and in any and all foreign countries.	
by fine or imprisor	wledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 iment of not more than five (5) years, or both.	
LEGAL NAME O		
Inventor: <u>UMEKL</u>	Takeshi Date: 21 August 2020	
Signature:	*************************************	

Title of Invention WAVELENGTH CONVERTER			
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/JP2020/017284 filed on April 22, 2020			
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, Chivoda-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.			
Inventor: TADANAGA Osamu Date: August 2/. 2020			
Signature: Osamu Tudanaga			

Title of Invention	WAVELENGTH CONVERTER		
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/JP2020/017284</u> filed on <u>April 22, 2020</u>		
The above-identifie	ed 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, NIE	PPON 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.			
by fine or imprison	vieldge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ment of not more than five (5) years, or both.		
LEGAL NAME OF			
Inventor: KASHIW	/AZAKI Takahiro Date: 2020, 8 2/		
Signature:	Tabihin Kanpingelei		

Invention W	VAVELENGTH CONVERTER			
As the below named	As the below named inventor, I hereby declare that:			
This declaration	The attached application, or			
	United States application or PCT international appl April 22, 2020	lication number <u>PCT/JP2020/017284</u> filed on		
The above-identified	l application was made or authorized to be made by	me.		
I believe that I am the	e original inventor or an original joint inventor of a	claimed invention in the application.		
WHEREAS, NIPP	PON TELEGRAPH AND TELEPHONE CORPOR	ATION		
1008116, JP, is desire	(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			
I, by these presents do in the United States under the terms of the aforesaid application therefor in the United	ORE, for good, valuable, and adequate consideration do sell, assign and transfer unto said ASSIGNEE, the and its territorial possessions and in all foreign cone international Convention and other relevant international to any and the entire right, title and interest in and to any and states and its territorial possessions and in any area, continuations, substitutions and renewals thereof.	e full and exclusive right to the said invention puntries (including the right to claim priority mational Treaties and Arrangements from the y and all Letters Patent which may be granted and all foreign countries and in and to any and		
and all foreign counts of my entire right, tit and assigns, to the fu	e and request the Patent Office Officials in the Unite tries to issue any and all of said Letters Patent, when the and interest in and to the same, for the sole use a all end of the term for which said Letters Patent may let by me had this Assignment and sale not been made.	n granted, to said ASSIGNEE as the assignee and behoof of said ASSIGNEE, its successors y 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.				
	edge that any willful false statement made in this de nent of not more than five (5) years, or both.	eclaration is punishable under 18 U.S.C. 1001		
LEGAL NAME OF		, A		
Inventor: KAZAMA	. <u>Takushi</u>	Date: <u>August , 25 ; 2029</u>		
Signature: Ta	.Kushi Kazama	·		

Invention WAVELENGTH CONVERTER
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/JP2020/017284 filed on April 22, 2020
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, <u>NIPPON TELEGRAPH AND TELEPHONE CORPORATION</u>
(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 Letter 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 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 assigned of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successor 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 Letter 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 State 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. 100 by fine or imprisonment of not more than five (5) years, or both.
LEGAL NAME OF INVENTOR
Inventor: INOUE Asuka Date: 2020 . P. 21 Signature:

PATENT REEL: 061473 FRAME: 0807

RECORDED: 10/19/2022