507303507 05/25/2022

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7350430

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TAKESHI UMEKI	09/03/2021
TAKUSHI KAZAMA	01/19/2022
TAKAHIRO KASHIWAZAKI	01/17/2022
KOJI EMBUTSU	01/17/2022
OSAMU TADANAGA	01/17/2022
ASUKA INOUE	01/18/2022
RYOICHI KASAHARA	01/18/2022

RECEIVING PARTY DATA

Name:	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:	17779958

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:	22120.200
NAME OF SUBMITTER:	DANA L. TANGREN
SIGNATURE:	/dana I. tangren/

PATENT REEL: 060018 FRAME: 0304

507303507

DATE SIGNED:	05/25/2022
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 7	•
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source=22120-200_declaration	n-assignment#page2.tif
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source=22120-200_declaration-assignment#page6.tif	
source=22120-200_declaration	n-assignment#page7.tif

Title of

Invention OPTICAL ELEMENT AND MANUFACTURING METHOD THEREOF
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/JP2019/047255 filed on December 3, 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: UMEKI Takeshi Date: 202 9.3
Signature: THTXXX

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I, by these presents do sell, assign and in the United States and its territoria under the terms of the International C aforesaid application) and the entire r	cluable, and adequate consideration, the receipt of which is hereby acknowledged it transfer unto said ASSIGNEE, the full and exclusive right to the said invention I possessions and in all foreign countries (including the right to claim priority convention and other relevant International Treaties and Arrangements from the right, title and interest in and to any and all Letters Patent which may be granted erritorial possessions and in any and all foreign countries and in and to any and substitutions and renewals thereof.
and all foreign countries to issue any of my entire right, title and interest in	Patent Office Officials in the United States and its territorial possessions and any and all of said Letters Patent, when granted, to said ASSIGNEE as the assigned and to the same, for the sole use and behoof of said ASSIGNEE, its successor of for which said Letters Patent may be granted, as fully and entirely as the same Assignment and sale not been made.
said invention, and testify in any le substitute, renewal and reissue applica Patent to be issued to said ASSIGN.	sicate to said ASSIGNEE or its representatives any facts known to me respecting agal proceeding, sign all lawful papers, execute all divisional, continuation stions, execute all necessary assignment papers to cause any and all of said Letter. EE, make all rightful oaths, and, generally do everything possible to aid said as, to obtain and enforce proper protection for said invention in the United States my and all foreign countries.
by fine or imprisonment of not more t	Iful false statement made in this declaration is punishable under 18 U.S.C. 100 than five (5) years, or both.
LEGAL NAME OF INVENTOR Inventor: <u>KAZAMA Takushi</u>	Date: January 19, 2022
Signature: Takushi	/

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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 assigned 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. 1003 by fine or imprisonment of not more than five (5) years, or both.
	LEGAL NAME OF INVENTOR Inventor: KASHIWAZAKI Takahiro Date:
	Inventor: KASHIWAZAKI Takshiro Date:
	Signature:

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I, by these presents d in the United States under the terms of th aforesaid application therefor in the United	ORE, for good, valuable, and adequate consideration, the receipt of which is hereby acknowledged, to sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention and its territorial possessions and in all foreign countries (including the right to claim priority to International Convention and other relevant International Treaties and Arrangements from the all and the entire right, title and interest in and to any and all Letters Patent which may be granted d States and its territorial possessions and in any and all foreign countries and in and to any and so, continuations, substitutions and renewals thereof.
and all foreign count of my entire right, tit and assigns, to the fu	e and request the Patent Office Officials in the United States and its territorial possessions and any ries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee the 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 d by me had this Assignment and sale not been made.
said invention, and substitute, renewal ar Patent to be issued t ASSIGNEE, its succe	at I will communicate to said ASSIGNEE or its representatives any facts known to me respecting testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, not reissue applications, execute all necessary assignment papers to cause any and all of said Letters to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said essors and assigns, to obtain and enforce proper protection for said invention in the United States sessions and in any and all foreign countries.
by fine or imprisonm	edge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 tent of not more than five (5) years, or both.
LEGAL NAME OF	INVENTOR
Inventor: EMBUTSI	JKoji Date: 2022. /. /7
Signature:	(oj'i Enbatsa

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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: TADANAGA Osamu Date: 2022 / . /7.
Signature: Tachanag a

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THE REAL PROPERTY AND ADDRESS OF THE PERSON	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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-	Inventor: INOUE Asuka Inventor: INOUE Asuka Date: Jan. 18, 2022
-	Inventor: INOUE Asuka Date: Jan. 78
-	Signature:

As a second seco
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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: KASAHARA Ryoichi Date: 2020. / . / 6
Signature: Pysiski Haaslasa

PATENT REEL: 060018 FRAME: 0312

RECORDED: 05/25/2022