07/16/2019 505573609

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAICHI WATANABE	07/04/2019
SATOMI KATAYOSE	07/04/2019
KEI WATANABE	07/04/2019
YU KURATA	07/04/2019
RYOICHI KASAHARA	07/04/2019

RECEIVING PARTY DATA

Name:	OLYMPUS CORPORATION
Street Address:	2951 ISHIKAWA-MACHI
Internal Address:	HACHIOJI-SHI
City:	TOKYO
State/Country:	JAPAN
Postal Code:	192-8507
Name:	NIPPON TELEGRAPH AND TELEPHONE CORPORATION
Street Address:	5-1, OTEMACHI 1-CHOME
Internal Address:	CHIYODA-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	100-8116

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16512909

CORRESPONDENCE DATA

Fax Number: (212)319-5101

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: 2123194900

Email: tmcdonald@HHPATENT.COM **Correspondent Name:** HOLTZ, HOLTZ & VOLEK PC

Address Line 1: 630 NINTH AVENUE

Address Line 2: **SUITE 1010**

REEL: 049765 FRAME: 0548 505573609

PATENT

Address Line 4: NEW	YORK, NEW YORK 10036-3744
ATTORNEY DOCKET NUMBER:	19181
NAME OF SUBMITTER:	TAYLER MCDONALD
SIGNATURE:	/Tayler McDonald/
DATE SIGNED:	07/16/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 5	
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source=19181_Dec_Assign#page2.tif	
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source=19181_Dec_Assign#page5.tif	

Combined Declaration and Assignment				
Title of PHASE MODULATOR, CONTROL METHOD FOR PHASE MODULATOR, AND FRIN				
As the below named invent	or, I hereby declare that	• • • • • • • • • • • • • • • • • • •	**************************************	
This declaration [X] is directed to:	The attached application	on, or		
	United States application	on or PCT internatio filed on	nal application 	
The above-identified applica	ation was made or autho	orized to be made by	/ me.	
I believe that I am the origin application.	al inventor or an origina	al joint inventor of a c	claimed invention in the	
In consideration of value received, I sell and assign to <u>OLYMPUS CORPORATION</u> , having a business address at <u>2951 Ishikawa-machi</u> , <u>Hachioji-shi</u> , <u>Tokyo</u> , <u>JAPAN 192-8507</u> , and <u>NIPPON TELEGRAPH AND TELEPHONE CORPORATION</u> , having a business address at <u>5-1</u> , <u>Otemachi 1-chome</u> , <u>Chiyoda-ku</u> , <u>Tokyo</u> , <u>100-8116</u> , <u>Japan</u> its successors, assigns or nominees, hereinafter referred to as "Assignee(s)", my entire right, title and interest in and to said invention, and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of intellectual property, including rights of priority, resulting from the filing of any of said applications.				
I authorize said Assignee(s) to file and prosecute an application or applications for patent for said invention as the applicant, and I request any official whose duty it is to issue patents, to issue any patent on said invention to said Assignee(s).				
I agree that on request and without further consideration, but at the expense of said Assignee(s), I will communicate to said Assignee(s) or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee(s) to obtain and enforce proper patent protection for said invention in all 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				
Daichi WATANABE	Daichi	Watanale	Jul. 4, 2019	
Inventor (printed name) Sig	nature	Date	

- :	Combi	ned Declara	tion and Assig	nment
Title of Invention	PHASE MODULATOR, CONTROL METHOD FOR PHASE PROJECTOR APPARATUS			SE MODULATOR, AND FRINGE
As the belo	w named inventor, I her	eby declare that		′ .
This declara	o:	tached application		
•	[] United numbe	States application	on or PCT internation filed on	nal application
The above-	identified application wa	as made or autho	orized to be made by	me.
I believe that application.	at I am the original inver	ntor or an origina	I joint inventor of a c	laimed invention in the
In consideration of value received, I sell and assign to <u>OLYMPUS CORPORATION</u> , having a business address at <u>2951 Ishikawa-machi</u> , <u>Hachioji-shi</u> , <u>Tokyo</u> , <u>JAPAN 192-8507</u> , and <u>NIPPON TELEGRAPH AND TELEPHONE CORPORATION</u> , having a business address at <u>5-1</u> , <u>Otemachi 1-chome</u> , <u>Chiyoda-ku</u> , <u>Tokyo</u> , <u>100-8116</u> , <u>Japan</u> its successors, assigns or nominees, hereinafter referred to as "Assignee(s)", my entire right, title and interest in and to said invention, and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of intellectual property, including rights of priority, resulting from the filing of any of said applications.				
I authorize said Assignee(s) to file and prosecute an application or applications for patent for said invention as the applicant, and I request any official whose duty it is to issue patents, to issue any patent on said invention to said Assignee(s).				
I agree that on request and without further consideration, but at the expense of said Assignee(s), I will communicate to said Assignee(s) or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee(s) to obtain and enforce proper patent protection for said invention in all 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				
Sato	mi KATAYOSE	Satomi	Katayose	
Invent	or (printed name)		matura	Clore

Combined Declaration and Assignment				
Title of Invention	PHASE MODULATO PROJECTOR APPAR	DULATOR, CONTROL METHOD FOR PHASE MODULATOR, AND FRING RAPPARATUS		
As the below	v named inventor, I her	eby declare that:		
This declara	1 - 3 · · · · · · · · · · · · · · · · · ·	ttached application, or	¥	
	[] United	States application or PCT internation rfiled on	nal application	
The above-	dentified application wa	as made or authorized to be made by	me.	
I believe that application.	t I am the original inver	ntor or an original joint inventor of a c	laimed invention in the	
In consideration of value received, I sell and assign to <u>OLYMPUS CORPORATION</u> , having a business address at <u>2951 Ishikawa-machi</u> , <u>Hachioji-shi</u> , <u>Tokyo</u> , <u>JAPAN 192-8507</u> , and <u>NIPPON TELEGRAPH AND TELEPHONE CORPORATION</u> , having a business address at <u>5-1</u> , <u>Otemachi 1-chome</u> , <u>Chiyoda-ku</u> , <u>Tokyo</u> , <u>100-8116</u> , <u>Japan</u> its successors, assigns or nominees, hereinafter referred to as "Assignee(s)", my entire right, title and interest in and to said invention, and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of intellectual property, including rights of priority, resulting from the filing of any of said applications.				
I authorize said Assignee(s) to file and prosecute an application or applications for patent for said invention as the applicant, and I request any official whose duty it is to issue patents, to issue any patent on said invention to said Assignee(s).				
I agree that on request and without further consideration, but at the expense of said Assignee(s), I will communicate to said Assignee(s) or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee(s) to obtain and enforce proper patent protection for said invention in all 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				
Kei	WATANABE	Bei Waterrabe	·	
Invento	or (printed name)	Signature	Date	

Combined Declaration and Assignment				
Title of Invention	PHASE MODULATOR, CONTROL METHOD FOR PHASE MODULATOR, AND FRI PROJECTOR APPARATUS			
As the below	w named inventor, I her	eby declare that:		
This declara	o:	ached application, or		
	[] United number	States application or PCT internation irfiled on	s application or PCT international applicationfiled on	
The above-i	dentified application wa	as made or authorized to be made by	me.	
I believe tha application.	t I am the original inver	ntor or an original joint inventor of a c	plaimed invention in the	
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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				
YU KURATA YN MWW.				
Inventor (printed name) Signature Date				

Combined Declaration and Assignment					
Title of Invention	THE PHASE MODIFIATOR CONTROL METHOD FOR PHASE MODIFIATOR AND FRI				
As the below	w named inventor, I her	eby declare that:			
This declara	£ 2	tached application, or			
is directed t	. [] United	States application or PCT internation or filed on	nal application		
The above-	identified application wa	as made or authorized to be made by	me.		
I believe that application.		ntor or an original joint inventor of a c	laimed invention in the		
In consideration of value received, I sell and assign to <u>OLYMPUS CORPORATION</u> , having a business address at <u>2951 Ishikawa-machi</u> , <u>Hachioji-shi</u> , <u>Tokyo</u> , <u>JAPAN 192-8507</u> , and <u>NIPPON TELEGRAPH AND TELEPHONE CORPORATION</u> , having a business address at <u>5-1</u> , <u>Otemachi 1-chome</u> , <u>Chiyoda-ku</u> , <u>Tokyo</u> , <u>100-8116</u> , <u>Japan</u> its successors, assigns or nominees, hereinafter referred to as "Assignee(s)", my entire right, title and interest in and to said invention, and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of intellectual property, including rights of priority, resulting from the filing of any of said applications.					
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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					
Ryoid	Ryoichi Kasahara Ryoichi Kasahara				
Invento	or (printed name)	Signature	Date		

> PATENT REEL: 049765 FRAME: 0554

RECORDED: 07/16/2019