### 502151419 12/05/2012

### PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### CONVEYING PARTY DATA

Name	Execution Date
Jun NAKAGAWA	11/20/2012
Tsuyoshi HASHIGUCHI	11/20/2012
Kazuhiko TSUKAMOTO	11/20/2012

#### RECEIVING PARTY DATA

Name:	Ricoh Company, Ltd.
Street Address:	3-6, Nakamagome 1-chome, Ohta-ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	143-8555

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13705544

### CORRESPONDENCE DATA

Fax Number: 7034132220

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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Correspondent Name: Oblon, Spivak, et al.

Address Line 1: 1940 Duke Street

Address Line 4: Alexandria, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	408584US28
NAME OF SUBMITTER:	Arielle Adams
	This document serves as an Oath/Declaration (37 CFR 1.63).

### Total Attachments: 3

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> PATENT REEL: 029410 FRAME: 0911

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## DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of

Title of	OPTICAL DEVICE, OPTICAL DEFLECTION D	EVICE, AND OPTICAL
Invention	MODULATION DEVICE	,
As the below name	fed inventor, I hereby declare that:	
This declaration 🗵	▼ The attached application, or	
is directed to:	United States application or PCT international application filed on	number
The above-identifie	ied application was made or authorized to be made by me.	•
I believe that I am t	the original inventor or an original joint inventor of a claime	d invention in the application.
WHEREAS, RIC	COH COMPANY, LTD.	
143-8555, Japan , is	ed to as "ASSIGNEE") having places of business at: 3-6, N is desirous of acquiring the entire right, title and interest in a timay be granted therefore in the United States and its term	and to said invention and in and to any
acknowledged, and said ASSIGNEE, th and in all foreign co other relevant Inter- interest in and to a	FORE, in consideration of the sum of FIVE DOLLARS ( d for other good and valuable consideration, I, by these pre the full and exclusive right to the said invention in the Unite countries (including the right to claim priority under the term anational Treaties and Arrangements from the aforesaid app any and all Letters Patent which may be granted therefor in an any and all foreign countries and in and to any and enewals thereof.	sents do sell, assign and transfer unto d States and its territorial possessions as of the International Convention and lication) and the entire right, title and in the United States and its ferritorial
any and all foreign assignee of my enti- (his) successors and	ize and request the Patent Office Officials in the United Standard countries to issue any and all of said Letters Patent, whe tire right, title and interest in and to the same, for the sole und assigns, to the full end of the term for which said Letter e would have been held by me had this Assignment and sale	on granted, to said ASSIGNEE as the se and behoof of said ASSIGNEE, its s Patent may be granted, as fully and
respecting said inv continuation, substituall of said Letters I possible to aid said	e that I will communicate to said ASSIGNEE or its (his) re- evention, and testify in any legal proceeding, sign all la- titute, renewal and reissue applications, execute all necessar Patent to be issued to said ASSIGNEE, make all rightful d ASSIGNEE, its (his) successors and assigns, to obtain a nited States and its territorial possessions and in any and all f	wful papers, execute all divisional, y assignment papers to cause any and oaths, and, generally do everything and enforce proper protection for said
I bereby acknowl by fine or imprisonn	vledge that any willful false statement made in this declaration timent of not more than five (5) years, or both.	on is punishable under 18 U.S.C. 1001
LEGAL NAME OF	F INVENTOR	
Inventor: Jun NAF		: <u>November 20, 2012</u>
Signature:	un Nakagawa	
	····	

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.  $\,^\circ$ ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> **PATENT REEL: 029410 FRAME: 0912**

# DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention	OPTICAL DEVICE, OPTICAL DEFLECTION DEVICE, AND OPTICAL
	MODULATION DEVICE
1	inventor, I hereby declare that:
This declaration 🛛	The attached application, or
is directed to:	United States application or PCT international application number
The above-identified	application was made or authorized to be made by me.
I believe that I am th	e original inventor or an original joint inventor of a claimed invention in the application.
WHEREAS, RICC	H COMPANY, LTD.
<u>143-8000, Japan</u> , Is	to as "ASSIGNEB") having places of business at: 3-6. Nakamagome 1-chome, Ohta-ku, Tokyo desirous of acquiring the entire right, title and interest in and to said invention and in and to any nay be granted therefore in the United States and its territorial possessions and in any and all
acknowledged, and it said ASSIGNEE, the and in all foreign cou other relevant Interna- interest in and to an	ORE, in consideration of the sum of FIVB DOLLARS (\$5.00), the receipt whereof is hereby for other good and valuable consideration, I, by these presents do sell, assign and transfer unto a full and exclusive right to the said invention in the United States and its territorial possessions entries (including the right to claim priority under the terms of the International Convention and stional Treaties and Arrangements from the aforesaid application) and the entire right, title and y and all Letters Patent which may be granted therefor in the United States and its territorial any and all foreign countries and in and to any and all divisions, reissues, continuations, awals thereof.
any and all foreign of assignee of my entire (his) successors and	and request the Patent Office Officials in the United States and its territorial possessions and countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its assigns, to the full end of the term for which said Letters Patent may be granted, as fully and would have been held by me had this Assignment and sale not been made.
continuation, substitu- all of said Letters Pa possible to aid said a	nat I will communicate to said ASSIGNEE or its (his) representatives any facts known to me ntion, and testify in any legal proceeding, sign all lawful papers, execute all divisional, te, renewal and reissue applications, execute all necessary assignment papers to cause any and atent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said d States and its territorial possessions and in any and all foreign countries.
I hereby acknowle by fine or imprisonme	dge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ent of not more than five (5) years, or both.
LEGAL NAME OF I	NVENTOR
Inventor: Tsuyoshi	HASHIGUCHI Date: November 20, 2012
Signature: Tanyos	- 1 0 6

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

PATENT REEL: 029410 FRAME: 0913

# DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of OPTICAL DEVICE, OPTICAL DEFLECTION DEVICE, AND OPTICAL MODULATION DEVICE	
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	
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, RICOH COMPANY, LTD.  (hereinafter referred to as "ASSIGNEE") having places of business at: 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555, 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, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, 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 (his) 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 (his) 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 (his) 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: Kazuhiko TSUKAMOTO Date: November 20, 2012 Signature: kazuhiko Izukanoto	
PIRTURE PORTING	

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.
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PATENT REEL: 029410 FRAME: 0914

**RECORDED: 12/05/2012**