# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5144151

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the TO ADD AN INVENTOR TO THE RECORDATION previously recorded on Reel 046673 Frame 0960. Assignor(s) hereby confirms the THE ADDITION OF INVENTOR TAKEFUMI OGUMA

## **CONVEYING PARTY DATA**

Name	Execution Date
YURIE MATSUYAMA	07/24/2018
TAKEFUMI OGUMA	07/24/2018

### **RECEIVING PARTY DATA**

Name:	NEC CORPORATION
Street Address:	7-1, SHIBA 5-CHOME, MINATO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	108-8001

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16078980

## **CORRESPONDENCE DATA**

**Fax Number:** (202)408-4400

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:** 2024084000

**Email:** bernie.carson@finnegan.com

Correspondent Name: FINNEGAN

Address Line 1: 901 NEW YORK AVENUE, NW Address Line 4: WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER:	12447.0155
NAME OF SUBMITTER:	B.CARSON
SIGNATURE:	/B.CARSON/
DATE SIGNED:	09/17/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 4** 

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PATENT REEL: 047098 FRAME: 0300

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PATENT REEL: 047098 FRAME: 0301

#### ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR L63)

Whereas, I/we, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; (the "invention") and

Whereas, NEC Corporation, 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan, (assignee), desires to acquire the entire and exclusive right, title, and interest in the application and invention, and to any patents that may be obtained therefor in the United States, in any U.S. territorial possessions, and in any and all foreign countries;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/we, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire and exclusive right, title and interest in the application and the invention disclosed therein for the United States, U.S. territorial possessions, and in any and all foreign countries, including all divisions, and continuations, and continuations-in-part thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues and reexaminations, renewals, and substitutions thereof, and including the right to claim priority under 35 U.S.C. §119, and all rights for past infringement, under the International Convention, and under any other relevant international Treaties and Arrangements, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns, I/we will execute without further consideration all papers deemed necessary by the assignee, and generally perform all necessary acts to aid the assignee, its successors and assigns, to obtain and enforce proper protection for the invention in connection with the United States and foreign applications, including but not limited to all divisional, continuation, reissue and other applications for Letters Patent on the invention and execute all assignments thereof to the above named assignee its successors and assigns, when called upon to do so by the assignee; and I/we will communicate to the above named assignee or its representatives all facts known to the undersigned respecting the invention, whenever requested, testify in any legal proceedings in which any of the applications or patents may become involved, and do generally everything necessary to assist the above named assignee its successors or assigns to obtain patent protection for the invention in the United States and foreign countries.

The application is entitled:

#### OPTICAL DEVICE

The above identified application was made or was 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.

I have reviewed and understand the contents of the application for which this assignment with declaration is being submitted, including the claims.

I am aware of the duty to disclose to the U.S Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CPR 1.56.

I hereby acknowledge that any willful false statement made in this assignment with declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

#### Authorization To Permit Access To Application by Participating Office

☑ If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified application is filed to have access to the application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the application-as-filed with respect to: 1) the above-identified patent application-as-filed, 2) any foreign application to which the above-identified application claims priority under 35 USC 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.53 has been filed in the above-identified patent application, and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application.

[Page 1]

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filling the Authorization to Permit Access to Application by Participating Office.

NAME OF SOLE OR FIRST INVENTOR:	
Given Name	
(first and middle [if any]) YURIE	Family Name or Surname MATSUYAMA
Inventor's signature Yushe Matauf	වණය. Date July 24, 2018
Residence: Tokyo, Japan	
Mailing Address: c/o NEC Corporation, 7-1, Shiba 5-	chome, Minato-ku, Tokyo, Japan
NAME OF SECOND INVENTOR:	<b>-</b>
Given Name (first and middle [if any]) TAKEFUMI	Family Name or Surname OGUMA
Inventor's signature	Date July 24, 2018
Residence: Tokyo, Japan	
Mailing Address: c/o NEC Comporation, 7-1, Shiba 5	-chame, Minato-ku, Tokyo, Japan
NAME OF THIRD INVENTOR:	
Given Name (first and middle [if any])	Family Name or Surname
Inventor's signature	Date
Residence:	
Mailing Address:	
NAME OF FOURTH INVENTOR:	
Given Name (first and middle [if any])	Family Name or Surname
Inventor's signature	Date
Residence:	
Mailing Address:	
NAME OF FIFTH INVENTOR:	
Given Name (first and middle [if any])	Family Name or Surname
Inventor's signature	Date
Residence:	
Mailing Address:	



## United States Patent And Trademark Office

Under Secretary of Commerce for Intellectual Property and DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 24, 2018

PTAS

FINNEGAN HENDERSON 901 NEW YORK AVE., NW WASHINGTON, DC 20001

505058766

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 08/23/2018

REEL/FRAME: 046673/0960

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 12447.0155-00000

ASSIGNOR:

MATSUYAMA, YURIE

DOC DATE: 07/24/2018

ASSIGNEE:

NEC CORPORATION 7-1, SHIBA 5-CHOME, MINATO-KU TOKYO, JAPAN 108-8001

APPLICATION NUMBER: 16078980

PATENT NUMBER:

TITLE: OPTICAL DEVICE

FILING DATE: ISSUE DATE:

ASSIGNMENT RECORDATION BRANCH PUBLIC RECORDS DIVISION

P.O. Box 1450, Alexandria, Virginia 22313-1450 - WWW.USPTO.GOV

**PATENT** 

REEL: 047098 FRAME: 0304

**RECORDED: 09/17/2018** 

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**REEL: 047098 FRAME: 0305** 

PATENT

# PATENT ASSIGNMENT COVER SHEET

EPAS ID: PAT5105531

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AMAYUSTAM ƏIRUY		81/24/2018
	ЭшеЛ	Execution Date
ATAU YTRAH DNIYBVNOO		
NATURE OF CONVEYANCE:	ASSIGNMENT	
SUBMISSION TYPE:	лем Азѕідимеит	

NEC CORPORATION	.omeld
ATAG YTRA9 ƏNIY	RECEI/

Postal Code:	108-8001
State/Country:	NAGAL
	TOKYO
Street Address:	V-1, SHIBA 5-CHOME, MINATO-KU
Name:	NEC CORPORATION

# F: IsjoT SA38MUN YTA390A9

4			
	08687091	Application Mumber:	
	Иптрег	Property Type	

## CORRESPONDENCE DATA

(202)408-4400

Fax Number:

:lism3 :euoyd

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail. Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

202,408-4000

moo.nagennil@noerso.einred

Correspondent Name:

901 NEW YORK AVE., NW **LINNEGAN HENDERSON**  : h enid esembbA

WASHINGTON, D.C. 20001

Address Line 4:

Total Attachments: 2	
This document serves as an Oath/Declaration (37 CFR 1.63).	
08/53/5018	
/B.CARSON/	
B.CARSON	
12447.0155-00000	

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