### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5122835

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
NORIAKI MIYAKE	07/31/2018
SATOSHI OKADA	07/31/2018
JUN IRISAWA	08/02/2018
TEPPEI KONISHI	08/01/2018
KEIGO MATSUURA	07/31/2018

### RECEIVING PARTY DATA

Name:	AGC INC.
Street Address:	5-1, MARUNOUCHI 1-CHOME
City:	CHIYODA-KU TOKYO
State/Country:	JAPAN
Postal Code:	100-8405

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

Property Type	Number
Application Number:	16052676

### **CORRESPONDENCE DATA**

**Fax Number:** (703)413-2220

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: (703) 413-3000
Email: mwaller@oblon.com
Correspondent Name: OBLON, ET AL.
Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	515604US	
NAME OF SUBMITTER:	MELISSA WALLER	
SIGNATURE:	/Melissa Waller/	
DATE SIGNED:	09/04/2018	
	This document serves as an Oath/Declaration (37 CFR 1.63).	
T . 1 Av. 1		

Total Attachments: 5

PATENT REEL: 046777 FRAME: 0242

505076078



Invention	DEVICE	al filter, and imaging
As the below name	ed inventor, I hereby declare that:	
This declaration	The attached application, or	
is directed to:	United States application or PCT international application filed on	n 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 claim	ed invention in the application.
Tokyo 100-8405 Ja	red to as "ASSIGNEE") having places of business at: 5- Japan, is desirous of acquiring the entire right, title and inte- ent that may be granted therefore in the United States and it	rest in and to said invention and in and
acknowledged, and said ASSIGNEE, the and in all foreign conter relevant Inter- interest in and to a	EFORE, in consideration of the sum of FIVE DOLLARS and for other good and valuable consideration, I, by these prothe full and exclusive right to the said invention in the Unit countries (including the right to claim priority under the terminational Treaties and Arrangements from the aforesaid apparts and all Letters Patent which may be granted therefor in any and all foreign countries and in and to any and renewals thereof.	esents do sell, assign and transfer unto ed States and its territorial possessions as of the International Convention and plication) and the entire right, title and in the United States and its territorial
any and all foreign assignee of my enti (his) successors and	rize and request the Patent Office Officials in the United St gn countries to issue any and all of said Letters Patent, who tire right, title and interest in and to the same, for the sole u and assigns, to the full end of the term for which said Letter the would have been held by me had this Assignment and sale	en granted, to said ASSIGNEE as the use and behoof of said ASSIGNEE, its as Patent may be granted as fully and
Further, I agree respecting said inv continuation, substi all of said Letters possible to aid said	e that I will communicate to said ASSIGNEE or its (his) revention, and testify in any legal proceeding, sign all I stitute, renewal and reissue applications, execute all necessars: Patent to be issued to said ASSIGNEE, make all rightfuid ASSIGNEE, its (his) successors and assigns, to obtain a nited States and its territorial possessions and in any and all its territorial possessions and in any and all its territorial possessions.	epresentatives any facts known to me awful papers, execute all divisional, ry assignment papers to cause any and il oaths, and, generally do everything and enforce proper protection for said
I hereby acknow by fine or imprison	wledge that any willful false statement made in this declarati nment of not more than five (5) years, or both.	on is punishable under 18 U.S.C. 1001
LEGAL NAME OF		
Inventor: Noriaki	ci MIYAKE Dat	July 31, 2018
Signature:	Norraki Miyake	

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

Title of NEAR-INFRARED-ABSORBING DYE, OPTICAL FILTER, AND IMAGING Invention 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 filed on
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, AGC Inc.
(hereinafter referred to as "ASSIGNEE") having places of business at: 5-1, Marumonchi 1-chome, Chiyoda-ku, Tokyo 100-8405 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: Satoshi OKADA Date: Jul. 31, 2018
Signature: Satushi Okada

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

Title of Invention	NEAR-INFRARED-ABSORBING DYE, O DEVICE	OPTICAL FILTER, AND IMAGING
As the below name	d inventor, I hereby declare that:	
	The attached application, or	16/052,676
is directed to:	United States application or PCT international a filed on August 2,	pplication number2018
The above-identifie	ed 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	f a claimed invention in the application.
Tokyo 100-8405 Ja	ed to as "ASSIGNEE") having places of busines apart, is desirous of acquiring the entire right, title nt that may be granted therefore in the United Stat	and interest in and to said invention and in and
acknowledged, and said ASSIGNEE, the and in all foreign contact in the other relevant Inter- interest in and to a	FORE, in consideration of the sum of FIVE DO. I for other good and valuable consideration, I, by he full and exclusive right to the said invention in countries (including the right to claim priority undernational Treaties and Arrangements from the aformy and all Letters Patent which may be granted an any and all foreign countries and in and to a mewals thereof.	these presents do sell, assign and transfer unto the United States and its territorial possessions or the terms of the International Convention and resaid application) and the entire right, title and therefor in the United States and its territorial
any and all foreign assignee of my enti (his) successors and	ize and request the Patent Office Officials in the land countries to issue any and all of said Letters Paire right, title and interest in and to the same, for the dassigns, to the full end of the term for which see would have been held by me had this Assignment	atent, when granted, to said ASSIGNEE as the the sole use and behoof of said ASSIGNEE, its aid Letters Patent may be granted, as fully and
respecting said in continuation, substi all of said Letters possible to aid said	that I will communicate to said ASSIGNEE or invention, and testify in any legal proceeding, situte, renewal and reissue applications, execute all Patent to be issued to said ASSIGNEE, make a disconsisted States and its territorial possessions and in any	ign all lawful papers, execute all divisional, I necessary assignment papers to cause any and ill rightful oaths, and, generally do everything to obtain and enforce proper protection for said
by fine or imprison	rledge that any willful false statement made in this ment of not more than five (5) years, or both.	declaration is punishable under 18 U.S.C. 1001
LEGAL NAME OF	NVENTOR	<b>≈</b>
Inventor: Jun IRI		Date: Aug. 2.2018
Signature: J	un Irisawa	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
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Title of Invention	NEAR-INFRARED-ABSORBING DYE, O DEVICE	OPTICAL FILTER, AND IMAGING
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 apfiled on	oplication number
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I believe that I am	n the original inventor or an original joint inventor of	a claimed invention in the application.
Tokyo 100-8405	red to as "ASSIGNEE") having places of business Japan, is desirous of acquiring the entire right, title tent that may be granted therefore in the United Stat	and interest in and to said invention and in and
acknowledged, ar said ASSIGNEE, and in all foreign other relevant Interest in and to	EFORE, in consideration of the sum of FIVE DOI and for other good and valuable consideration, I, by the full and exclusive right to the said invention in countries (including the right to claim priority under the emational Treaties and Arrangements from the aform any and all Letters Patent which may be granted in any and all foreign countries and in and to a renewals thereof.	these presents do sell, assign and transfer unto the United States and its territorial possessions of the terms of the International Convention and esaid application) and the entire right, title and therefor in the United States and its territorial
any and all foreign assignee of my en (his) successors a	orize and request the Patent Office Officials in the Ugn countries to issue any and all of said Letters Pantire right, title and interest in and to the same, for the daying to the full end of the term for which same would have been held by me had this Assignment	tent, when granted, to said ASSIGNEE as the he sole use and behoof of said ASSIGNEE, its aid Letters Patent may be granted, as fully and
respecting said in continuation, subsall of said Letters possible to aid sa	that I will communicate to said ASSIGNEE or invention, and testify in any legal proceeding, si stitute, renewal and reissue applications, execute all as Patent to be issued to said ASSIGNEE, make all aid ASSIGNEE, its (his) successors and assigns, to Inited States and its territorial possessions and in any	gn all lawful papers, execute all divisional, necessary assignment papers to cause any and il rightful oaths, and, generally do everything obtain and enforce proper protection for said
	whedge that any willful false statement made in this imment of not more than five (5) years, or both.	declaration is punishable under 18 U.S.C. 1001
LEGAL NAME C	)F INVENTOR	
Inventor: Teppe		Date: Aug / 2018
Signature:	Teppei Konishi	
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ATTORNEYS AT LAW
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As the below named inventor, I hereby declare that:
This declaration 💢 The attached application, or
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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, AGC Inc.
(hereinafter referred to as "ASSIGNEE") having places of business at: 5-1, Marunouchi 1-chome. Chiyoda-ku Tokyo 100-8405 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 territoria 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. 100 by fine or imprisonment of not more than five (5) years, or both.
LEGAL NAME OF INVENTOR
Inventor: Keigo MATSUURA Date: July 31, 2018
Signature: Keigo Matsunja

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
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ALEXANDRIA, VIRGINIA 22314

PATENT REEL: 046777 FRAME: 0248

**RECORDED: 09/04/2018**