505627222 08/19/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5674026

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MASAKO KASHIWAGI	08/05/2019
NAO MISHIMA	08/05/2019
TAKAYUKI SASAKI	08/07/2019
TATSUO KOZAKAYA	08/05/2019

RECEIVING PARTY DATA

Name:	KABUSHIKI KAISHA TOSHIBA
Street Address:	1-1, SHIBAURA 1-CHOME, MINATO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	105-0023

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16543692

CORRESPONDENCE DATA

Fax Number:

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.

Email:anita.nylander@finnegan.comCorrespondent Name:FINNEGAN, HENDERSONAddress Line 1:901 NEW YORK AVENUE, NWAddress Line 4:WASHINGTON, D.C. 20001

ATTORNEY DOCKET NUMBER: 12389.0162

NAME OF SUBMITTER: ANITA L. NYLANDER

SIGNATURE: /Anita L. Nylander/

DATE SIGNED: 08/19/2019

Total Attachments: 4

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PATENT 505627222 REEL: 050085 FRAME: 0188

Attorney Customer No 22,852 13G10022794-US-A (19S0144-1)

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

Invention	IMAGE PROCESSING DEVICE, RANGING DEVICE AND METHOD
As the below n This declaratio is directed to:	amed inventor, I hereby declare that: The attached application, or United States application or PCT international application number filed on (If any).
The above-ider	atified 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.
business at: 1-1 right, title and	ABUSHIKI KAISHA TOSHIBA (hereinafter referred to as "ASSIGNEE") having places of a Shibaura 1-chome, Minato-ku, Tokyo 105-0023, Japan, is desirous of acquiring the entire interest in and to said invention and in and to any Letters Patent that may be granted therefore in the and its territorial possessions and in any and all foreign countries;
acknowledged, said ASSIGNI possessions an Convention an entire right, titl and its territori	REFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto BE, the full and exclusive right to the said invention in the United States and its territorial d in all foreign countries (including the right to claim priority under the terms of the International d other relevant International Treaties and Arrangements from the aforesaid application) and the e and interest in and to any and all Letters Patent which may be granted therefor in the United States ial possessions and in any and all foreign countries and in and to any and all divisions, reissues, substitutions and renewals thereof.
any and all for assignee of my (his) successor	norize and request the Patent Office Officials in the United States and its territorial possessions and eign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its s and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and same would have been held by me had this Assignment and sale not been made.
respecting said continuation, s and all of said possible to aid	ree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me I invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, ubstitute, renewal and reissue applications, execute all necessary assignment papers to cause any Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said a United States and its territorial possessions and in any and all foreign countries.
1001 by fine of LEGAL NAM	enowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. rimprisonment of not more than five (5) years, or both. E OF INVENTOR
Inventor:]	Masako Kashiwagi Date: Aug. 5, 2019
Inventor: Masako Kashiwagi Date: Aug. 5, 2019 Signature: Masako Kashiwagi	

Attorney Customer No 22,852 13G10022794-US-A (19S0144-1)

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 IMA	GE PROCESSING DEVICE, RANGING DEVICE AND METHOD
Invention	
A a 4h a h alama a a a a a	
	inventor, I hereby declare that:
This declaration	The attached application, or
is directed to:	United States application or PCT international application number
	filed on(If any).
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.
business at: 1-1. Shi right, title and interes	SHIKI KAISHA TOSHIBA (hereinafter referred to as "ASSIGNEE") having places of baura 1-chome, Minato-ku, Tokyo 105-0023, Japan, is desirous of acquiring the entire t in and to said invention and in and to any Letters Patent that may be granted therefore in the territorial possessions and in any and all foreign countries;
acknowledged, and for said ASSIGNEE, the possessions and in al Convention and othe entire right, title and it and its territorial pos	RB, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby or other good and valuable consideration, I, by these presents do sell, assign and transfer unto e full and exclusive right to the said invention in the United States and its territorial I foreign countries (including the right to claim priority under the terms of the International relevant International Treaties and Arrangements from the aforesaid application) and the interest in and to any and all Letters Patent which may be granted therefor in the United States sessions and in any and all foreign countries and in and to any and all divisions, reissues, utions and renewals thereof.
any and all foreign coassignee of my entire (his) successors and a	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.
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: Nao Mishima Date: Aug. 5, 2019	
Signature:	or Malines

Attorney Customer No 22,852 13G10022794-US-A (19S0144-1)

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	IMAGE PROCESSING DEVICE, RANGING DEVICE AND METHOD
As the below n This declaratio is directed to:	United States application or PCT international application number
The above-ider	filed on(If any) . tified 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.
business at: 1-	ABUSHIKI KAISHA TOSHIBA (hereinafter referred to as "ASSIGNEE") having places of L. Shibaura 1-chome, Minato-ku, Tokyo 105-0023, Japan, is desirous of acquiring the entire interest in and to said invention and in and to any Letters Patent that may be granted therefore in the and its territorial possessions and in any and all foreign countries;
acknowledged, said ASSIGNI possessions and Convention an entire right, title and its territori	REFORB, in consideration of the sum of FIVB DOLLARS (\$5.00), the receipt whereof is hereby and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto its, the full and exclusive right to the said invention in the United States and its territorial in all foreign countries (including the right to claim priority under the terms of the International dother relevant International Treaties and Arrangements from the aforesaid application) and the eand interest in and to any and all Letters Patent which may be granted therefor in the United States all possessions and in any and all foreign countries and in and to any and all divisions, reissues, substitutions and renewals thereof.
any and all for assignee of my (his) successor	norize and request the Patent Office Officials in the United States and its territorial possessions and eign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and same would have been held by me had this Assignment and sale not been made.
respecting said continuation, s and all of said possible to aid	ree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, abstitute, renewal and reissue applications, execute all necessary assignment papers to cause any Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said a United States and its territorial possessions and in any and all foreign countries.
1001 by fine or	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. imprisonment of not more than five (5) years, or both.
LEGAL NAM	3 OF INVENTOR
	hkavuki Sasaki Date: Ay 7, 2019
Signature:	Tobayaki Lazaki

Attorney Customer No 22,852 13G10022794-US-A (1980144-1)

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	IMAGE PROCESSING DEVICE, RANGING DEVICE AND METHOD
Invention	, ,
As the below n	omed inventor I hardy deal state
This declaratio	amed inventor, I hereby declare that: The attached application or
is directed to:	\\
is directed to:	United States application or PCT international application number (If any).
	filed on(If any).
The above-ider	ntified 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.
business at: 1-1 right, title and	ABUSHIKI KAISHA TOSHIBA (hereinafter referred to as "ASSIGNEE") having places of I. Shibaura 1-chome, Minato-ku, Tokyo 105-0023, Japan, is desirous of acquiring the entire interest in and to said invention and in and to any Letters Patent that may be granted therefore in the nd its territorial possessions and in any and all foreign countries;
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any and all for assignee of my (his) successor	norize and request the Patent Office Officials in the United States and its territorial possessions and eign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and 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.	
	nowledge 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 NAM	B OF INVENTOR
Inventor:	Tatous Kozakaya Date: Aug 5, 2019
Signature:	Tatour Karabeer

PATENT REEL: 050085 FRAME: 0192

RECORDED: 08/19/2019