507355753 06/27/2022

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TETSUHIKO MURATA	06/14/2022
SHINGO KASHIMA	06/07/2022
HIROKI NAGAYAMA	01/14/2021

RECEIVING PARTY DATA

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City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	100-8116	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17617931

CORRESPONDENCE DATA

Fax Number: (571)376-6334

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: 5713766333

Email: anaquadocketing@Xsensus.com

Correspondent Name: XSENSUS LLP

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Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	17854US01
NAME OF SUBMITTER:	KAORU SAITO
SIGNATURE:	/Kaoru Saito/
DATE SIGNED: 06/27/2022	
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

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PATENT 507355753 REEL: 060320 FRAME: 0407

5190003WO1

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	ESTIMATION DEVICE, ESTIMATION METHOD, AND ESTIMATION PROGRAM			
As the below name	d inventor, I hereby declare that:	***************************************		
This declaration	The attached application, or			
is directed to:	United States application or PCT international affiled on <u>June 12, 2019</u>	oplication num	iber PCT/JP2019/023380	
The above-identifie	d application was made or authorized to be made	by me.		
I believe that I am t	he original inventor or an original joint inventor o	f a claimed inv	vention in the application.	
"ASSIGNEE") hav desirous of acquiring	PON TELEGRAPH AND TELEPHONE CORPOring places of business at: 5-1. Otemachi 1-cheng the entire right, title and interest in and to said refore in the United States and its territorial possesses	ome, Chiyoda invention and	-ku, Tokyo 100-8116 Japan, is I in and to any Letters Patent that	
I, by these presents in the United State under the terms of aforesaid applicatio therefor in the Unit	ORE, for good, valuable, and adequate considerati- do sell, assign and transfer unto said ASSIGNEE, is and its territorial possessions and in all foreign the International Convention and other relevant In (in) and the entire right, title and interest in and to a ed States and its territorial possessions and in any es, continuations, substitutions and renewals there	the full and ex- countries (inc ternational Trains) and all Let and all foreig	sclusive right to the said invention cluding the right to claim priority eaties and Arrangements from the tters Patent which may be granted	
and all foreign cour of my entire right, t and assigns, to the	we and request the Patent Office Officials in the Un ntries to issue any and all of said Letters Patent, we itle and interest in and to the same, for the sole us full end of the term for which said Letters Patent reld by me had this Assignment and sale not been n	hen granted, to e and behoof on ay be granted	o said ASSIGNEE as the assignee of said ASSIGNEE, its successors	
said invention, and substitute, renewal a Patent to be issued ASSIGNEE, its suc	that I will communicate to said ASSIGNEE or its relatively in any legal proceeding, sign all lawfund reissue applications, execute all necessary assign to said ASSIGNEE, make all rightful oaths, and cessors and assigns, to obtain and enforce proper possessions and in any and all foreign countries.	ıl papers, exe gnment papers d, generally d	cute all divisional, continuation, to cause any and all of said Letters to everything possible to aid said	
	ledge 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	INVENTOR			
Inventor: Tetsuhil	ko MURATA	Date:	6/14/2022	
Signature:	—Docusigned by: / Tetsuluko MURATA/			

PATENT REEL: 060320 FRAME: 0408

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	ESTIMATIO	ON DEVICE, ES	TIMATION METHOD	, AND EST	IMATION PROGI	RAM
Invention						
As the below name	d inventor, I h	ereby declare th	st:			
This declaration [] The attached	d application, or				
is directed to:	United State filed on Ju		PCT international app	lication nun	nber PCT/JP2015	2/023380
The above-identifie	The above-identified application was made or authorized to be made by me.					
I believe that I am	he original in	ventor or an orig	pinal joint inventor of a	claimed in	vention in the app	lication.
"ASSIGNEE") has desirous of acquiri	ving places of ng the entire r	f business at:_5 ight, title and in	LEPHONE CORPORA i-1, Otemachi 1-chor terest in and to said ir lits territorial possessi	e. Chiyoda vention an	a-ku. Tokyo 100- d in and to any La	8116 Japan , is extern Patent that
I, by these presents in the United State under the terms of aforesaid application therefor in the United	do sell, assignts and its territion the Internation (m) and the entited States and	and transfer un torial possession al Convention a tire right, title an its territorial po	sdequate consideration to said ASSIGNEE, the said and in all foreign cound other relevant Intend interest in and to any assessions and in any assessions and the said renewals thereof.	e full and e ountries (in mational Tr y and all Le ad all foreig	xclusive right to the cluding the right reaties and Arrang otters Patent which	ne said invention to claim priority ements from the may be granted
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 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 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 said assignee, 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: Shingo	KASHIMA			Date:	June 7.	Zo22
Signature:	1/12	小人	佢			

PATENT REEL: 060320 FRAME: 0409

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	ESTIMATION DEVICE, ESTIMATION METHOD, AND ESTIMATION PROGRAM
As the below nan	i ned inventor, I hereby declare that:
This declaration	☐ The attached application, or
is directed to:	☑ United States application or PCT international application number <u>PCT/JP2019/023380</u> filed on <u>June 12, 2019</u>
The above-identi	fied application was made or authorized to be made by me.
I believe that I an	the original inventor or an original joint inventor of a claimed invention in the application.
"ASSIGNEE") h	PPON TELEGRAPH AND TELEPHONE CORPORATION (hereinafter referred to as saving places of business at: 5-1. Otemachi 1-chome, Chiyoda-ku, Tokyo 100-8116 Japan , is ring the entire right, title and interest in and to said invention and in and to any Letters Patem that herefore in the United States and its territorial possessions and in any and all foreign countries;
I, by these present in the United Statunder the terms of aforesaid applicatherefor in the United Status of the Uni	EFORE, for good, valuable, and adequate consideration, the receipt of which is hereby acknowledged, its do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention ites and its territorial possessions and in all foreign countries (including the right to claim priority of the International Convention and other relevant International Treaties and Arrangements from the tion) and the entire right, title and interest in and to any and all Letters Patent which may be granted inted States and its territorial possessions and in any and all foreign countries and in and to any and suces, continuations, substitutions and renewals thereof.
and all foreign co of my entire right and assigns, to th	rize and request the Patent Office Officials in the United States and its territorial possessions and any nuntries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assigned to the first and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors a full end of the term for which said Letters Patent may be granted, as fully and entirely as the same held by me had this Assignment and sale not been made.
said invention, a substitute, renewal Patent to be issu ASSIGNEE, its s	e that I will communicate to said ASSIGNEE or its representatives any facts known to me respecting and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, all and reissue applications, execute all necessary assignment papers to cause any and all of said Letters ed to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said accessors and assigns, to obtain and enforce proper protection for said invention in the United States possessions and in any and all foreign countries.
	owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 onment of not more than five (5) years, or both.
LEGAL NAME	OF INVENTOR
Inventor: Hirok	i NAGAYAMA Date: 262 / 1 / 14
Signature	Hirok: NAGAYAMA
Section Section 201	And April of Action of the Annual Section of

PATENT REEL: 060320 FRAME: 0410

RECORDED: 06/27/2022