PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6440884

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Kimitaka TSUTSUMI	08/31/2020
Kenichi NOGUCHI	08/27/2020
Hideaki TAKADA	08/24/2020
Yoichi HANEDA	08/24/2020

RECEIVING PARTY DATA

Name:	NIPPON TELEGRAPH AND TELEPHONE CORPORATION	
Street Address:	Street Address: 5-1, OTEMACHI 1-CHOME	
Internal Address: CHIYODA-KU		
City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	1008116	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17050102

CORRESPONDENCE DATA

Fax Number: (877)769-7945

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:
 +1 (202) 626-7785

 Email:
 apsi@fr.com

Correspondent Name: JONG WAN SUH

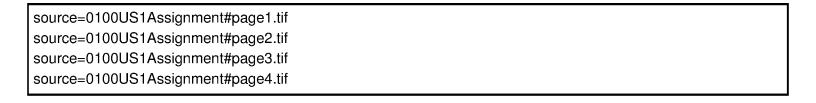
Address Line 1: FISH & RICHARDSON P.C.

Address Line 2: P.O.BOX 1022

Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

ATTORNEY DOCKET NUMBER:	49369-0100US1
NAME OF SUBMITTER:	LAURA A. MURPHY
SIGNATURE:	/Laura Murphy/
DATE SIGNED:	12/09/2020

Total Attachments: 4



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 SOUND IMAGE REPRODUCTION DEVICE, SOUND IMAGE REPRODUCTION METHOD AND SOUND IMAGE REPRODUCTION PROGRAM	
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 PCT/JP2019/016078 filed on April 15, 2019	
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, NIPPON TELEGRAPH AND TELEPHONE CORPORATION	
(hereinafter referred to as "ASSIGNEE") having places of business at: 5-1, Otemachi 1-chome, Chiyoda-ku, Tokyo, Japan 100-8116, 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, for good, valuable, and adequate consideration, the receipt of which is hereby acknowledged, 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 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 aid said ASSIGNEE, its 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: Kimitaka TSUTSUMI Date: August 31, 2020	
Signature: Fimitaka Tsutsumi	

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 SOUND IMAGE REPRODUCTION DEVICE, SOUND IMAGE REPRODUCTION METHOD AND SOUND IMAGE REPRODUCTION PROGRAM		
As the below named inventor, I hereby declare that:		
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is directed to: United States application or PCT international application number PCT/JP2019/016078 filed on April 15, 2019		
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.		
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NOW, THEREFORE, for good, valuable, and adequate consideration, the receipt of which is hereby acknowledged, 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 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 aid said ASSIGNEE, its 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.		
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by fine or imprisonment of not more than five (5) years, or both. LEGAL NAME OF INVENTOR		
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Signature: 222		

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	SOUND IMAGE REPRODE AND SOUND IMAGE REP	JCTION DEVICE, SOUND IMAGE REPRODUCTION METHOD RODUCTION PROGRAM
As the below n	named inventor, I hereby declare t	hat.
This declaratio	on . The attached application, o	n
is directed to:	United States application of filed on April 15, 2019	r PCT international application number PCT/JP2019/016078
The above-idea	ntified application was made or a	uthorized to be made by me.
I believe that I	am the original inventor or an ori	iginal joint inventor of a claimed invention in the application.
WHEREAS,	NIPPON TELEGRAPH AND T	ELEPHONE CORPORATION
Japan 100-811	6, is desirous of acquiring the en	g places of business at: 5-1, Otemachi 1-chome, Chivoda-ku, Tokyo tire right, title and interest in and to said invention and in and to any a United States and its territorial possessions and in any and all foreign
I, by these pres in the United 5 under the term aforesaid appli therefor in the	sents do sell, assign and transfer u States and its territorial possession is of the International Convention cation) and the entire right, title a	I adequate consideration, the receipt of which is hereby acknowledged into said ASSIGNEE, the full and exclusive right to the said inventior ms and in all foreign countries (including the right to claim priority and other relevant International Treaties and Arrangements from the interest in and to any and all Letters Patent which may be granted ossessions and in any and all foreign countries and in and to any and is and renewals thereof.
and all foreign of my entire rig and assigns, to	countries to issue any and all of a ght, title and interest in and to the	ce Officials in the United States and its territorial possessions and any said Letters Patent, when granted, to said ASSIGNEE as the assignee same, for the sole use and behoof of said ASSIGNEE, its successors a said Letters Patent may be granted, as fully and entirely as the same of and sale not been made.
said invention, substitute, rene Patent to be is ASSIGNEE, its	, and testify in any legal proces wal and reissue applications, executed to said ASSIGNEE, make	d ASSIGNEE or its representatives any facts known to me respecting eding, sign all lawful papers, execute all divisional, continuation, rure all necessary assignment papers to cause any and all of said Letters all rightful oaths, and, generally do everything possible to aid said and enforce proper protection for said invention in the United States foreign countries.
by fine or impr	mowledge that any willful false st isonment of not more than five (S E OF INVENTOR	tatement made in this declaration is punishable under 18 U.S.C. 1001) years, or both.
	leaki TAKADA	Date: <u>Aug. 24., 2020</u>
Signature:	Kideaki Takan	
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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 Investion		DUCTION DEVICE, SOUND IMAGE REPRODUCTION METHOD PRODUCTION PROGRAM
As the below na	imed inventor. I hereby declare	e that:
This declaration	The attached application,	, or
is directed to:	United States application filed on April 15, 2019	or PCT international application number PCT/3P2019/016078
The above-iden	tified application was made or	authorized to be made by me.
I believe that I a	un the original inventor or an c	original joint inventor of a claimed invention in the application.
WHEREAS,	<u>NIPPON TELEGRAPH AND </u>	TELEPHONE CORPORATION
Japan 100-8116	, is desirous of acquiring the a	ing places of business at: <u>5-1. Oternachi 1-chome, Chiyoda-ku, Tokyo</u> entire right, title and interest in and to said invention and in and to any the United States and its territorial possessions and in any and all foreign
i, by these presc in the United Si under the terms aforesaid applic therefor in the U	outs do sell, assign and transfer tates and its territorial possess of the International Conventio ation) and the entire right, fille	nd adequate consideration, the receipt of which is hereby acknowledged unto said ASSIGNEE, the full and exclusive right to the said inventior stons and in all foreign countries (including the right to claim priority on and other relevant International Treaties and Arrangements from the cand interest in and to any and all Letters Patent which may be granted possessions and in any and all foreign countries and in and to any and ions and renewals thereof.
and all foreign of of my entire rigi and assigns, to t	countries to issue any and all o hi, title and interest in and to the	ffice Officials in the United States and its territorial possessions and any if said Letters Patent, when granted, to said ASSIGNEE as the assigned he same, for the sole use and behoof of said ASSIGNEE, its successors ich said Letters Patent may be granted, as fully and entirely as the same tent and sale not been made.
said invention, substitute, renew Patent to be iss ASSIGNEE, its	and testify in any legal prox val and reissue applications, ex- ued to said ASSIGNEE, make	said ASSIGNEE or its representatives any facts known to me respecting ceeding, sign all lawful papers, execute all divisional, continuation, ecute all necessary assignment papers to cause any and all of said Letters e all rightful oaths, and, generally do everything possible to aid said ain and enforce proper protection for said invention in the United States II foreign countries.
by fine or impris	nowledge that any willful false somment of not more than five OF INVENTOR	statement made in this declaration is punishable under 18 U.S.C. 1001 (5) years, or both.
Inventor: Yoic	di HANEDA	Date: 24 Aug. 2020
Signature:	J.14	Haueda.

PATENT REEL: 054596 FRAME: 0390

RECORDED: 12/09/2020