506502374 02/12/2021

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ATSUSHI NAKAMURA	12/01/2020
KEIJI OKAMOTO	12/03/2020
TETSUYA MANABE	11/24/2020

RECEIVING PARTY DATA

Name:	NIPPON TELEGRAPH AND TELEPHONE CORPORATION
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:	17268113

CORRESPONDENCE DATA

Fax Number: (248)641-0270

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: 248.641.1230

Email: troymailroom@hdp.com, jmudge@hdp.com **Correspondent Name:** HARNESS, DICKEY & PIERCE, P.L.C.

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Address Line 2: SUITE 200

Address Line 4: TROY, MICHIGAN 48098

ATTORNEY DOCKET NUMBER:	18642-000089-US-NP
NAME OF SUBMITTER:	KATHLEEN VIGNE
SIGNATURE:	/Kathleen Vigne/
DATE SIGNED:	02/12/2021

Total Attachments: 3

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PATENT 506502374 REEL: 055241 FRAME: 0114

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PATENT REEL: 055241 FRAME: 0115

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 RAMAN GAIN EFFICIENCY DISTRIBUTION TESTING METHOD, AND RAMAN GAIN EFFICIENCY DISTRIBUTION TESTING 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 <u>PCT/JP2019/032103</u>
filed on August 16, 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, Tokyo1008116 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, 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: NAKAMURA, Atsushi Date: December 1, 2020
Signature: <u>NAKAMURA</u> , Atsushi

PATENT REEL: 055241 FRAME: 0116

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	RAMAN GAIN EFFICIENCY DISTRIBUTION TESTI EFFICIENCY DISTRIBUTION TESTING DEVICE	NG METHOD, AND RAMAN GAIN
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 application	cation number PCT/JP2019/032103
	filed on August 16, 2019.	~
The above-identifie	ed application was made or authorized to be made by n	ne.
I believe that I am t	the original inventor or an original joint inventor of a c	laimed invention in the application.
(hereinafter referre Tokyo1008116 Jap	PON TELEGRAPH AND TELEPHONE CORPORATE to as "ASSIGNEE") having places of business an, is desirous of acquiring the entire right, title and in that may be granted therefore in the United States and	at: 5-1, Otemachi 1-chome, Chivoda-ku, terest in and to said invention and in and to
I, by these presents in the United State under the terms of aforesaid applicatio therefor in the Unit	FORE, for good, valuable, and adequate consideration, to do sell, assign and transfer unto said ASSIGNEE, the stand its territorial possessions and in all foreign cout the International Convention and other relevant Internation) and the entire right, title and interest in and to any attention and its territorial possessions and in any and es, continuations, substitutions and renewals thereof.	full and exclusive right to the said invention intries (including the right to claim priority ational Treaties and Arrangements from the and all Letters Patent which may be granted
and all foreign cour of my entire right, t and assigns, to the	ze and request the Patent Office Officials in the United ntries to issue any and all of said Letters Patent, when title and interest in and to the same, for the sole use an full end of the term for which said Letters Patent may leld by me had this Assignment and sale not been made.	granted, to said ASSIGNEE as the assignee d behoof of said ASSIGNEE, its successors be granted, as fully and entirely as the same
said invention, and substitute, renewal a Patent to be issued ASSIGNEE, its suc	that I will communicate to said ASSIGNEE or its represent the said ASSIGNEE or its represent the said and reissue applications, execute all necessary assignment to said ASSIGNEE, make all rightful oaths, and, good coessors and assigns, to obtain and enforce proper protessessions and in any and all foreign countries.	pers, execute all divisional, continuation, ent papers to cause any and all of said Letters enerally do everything possible to aid said
by fine or imprison	rledge that any willful false statement made in this deciment of not more than five (5) years, or both.	laration is punishable under 18 U.S.C. 1001
LEGAL NAME OF	·INVENTOR	/ 2
Inventor: OKAMO		Date: 2020/12/3
Signature: 0	KAMOTO, KEIJI	

PATENT REEL: 055241 FRAME: 0117

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	EFFICIENCY DISTRIBUTION TES		METHOD, AND RAMAN GAIN	8
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	n number <u>PCT/JP2019/032103</u>	17
**	filed on August 16, 2019.		and the second s	
The above-identifi	ied application was made or authoriz	ed to be made by me.	,	
I believe that I am	the original inventor or an original j	oint inventor of a claim	ed invention in the application.	3
1	PPON TELEGRAPH AND TELEPH		••	
Tokyo1008116 Jar	red to as "ASSIGNEE") having pan, is desirous of acquiring the entithat may be granted therefore in the	re right, title and interes	st in and to said invention and in	and to
I, by these presents in the United State under the terms of aforesaid application therefor in the Uni	FORE, for good, valuable, and adequest do sell, assign and transfer unto sailes and its territorial possessions and the International Convention and of on) and the entire right, title and integrated States and its territorial possessions, continuations, substitutions and	Id ASSIGNEE, the full at in all foreign countries ther relevant Internation erest in and to any and at ions and in any and all the same and in any and all the same are same and all the same and and any and all the same are same and any and all the same are same ar	and exclusive right to the said invo es (including the right to claim properties and Arrangements fro all Letters Patent which may be gr	ention riority om the ranted
and all foreign cou of my entire right, and assigns, to the	ize and request the Patent Office Office intries to issue any and all of said Letitle and interest in and to the same, full end of the term for which said I neld by me had this Assignment and	etters Patent, when gran for the sole use and bel Letters Patent may be gr	ted, to said ASSIGNEE as the ass hoof of said ASSIGNEE, its succe	signee essors
said invention, an substitute, renewal Patent to be issued ASSIGNEE, its sue	that I will communicate to said ASS and testify in any legal proceeding, and reissue applications, execute all d to said ASSIGNEE, make all rigic excessors and assigns, to obtain and ecossessions and in any and all foreign	sign all lawful papers necessary assignment pa htful oaths, and, general enforce proper protection	s, execute all divisional, continu apers to cause any and all of said L ally do everything possible to aid	ation, etters d said
by fine or imprisor	wledge that any willful false stateme nment of not more than five (5) years		ion is punishable under 18 U.S.C.	. 1001
LEGAL NAME O		*	*	
Inventor: MANA)	Dat	te: 2020.11.24	5
Signature:	Tetsuze branche	······································	· ·	·

PATENT REEL: 055241 FRAME: 0118

RECORDED: 02/12/2021