

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TOSHIYA MATSUDA	12/11/2019
TORU HOMEMOTO	12/11/2019
KANA MASUMOTO	12/11/2019
MASARU KATAYAMA	12/11/2019
KATSUTOSHI KODA	12/11/2019
RECEIVING PARTY DATA	
Name:	NIPPON TELEGRAPH AND TELEPHONE CORPORATION
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State/Country:	JAPAN
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16626468
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ATTORNEY DOCKET NUMBER:	34923-020US
NAME OF SUBMITTER:	KALI AMBACHEW
SIGNATURE:	/Kali Ambachew/
DATE SIGNED:	12/24/2019
Total Attachments: 2	

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WORLD-WIDE ASSIGNMENT AND AGREEMENT

WHEREAS, **Toshiya MATSUDA, Toru HOMEMOTO, Kana MASUMOTO, Masaru KATAYAMA, and Katsutoshi KODA** (hereinafter referred to singly and collectively as "ASSIGNOR") have invented a certain invention entitled, **OPTICAL TRANSMITTER, OPTICAL RECEIVER, AND OPTICAL TRANSMISSION SYSTEM**, for which a non-provisional application for United States Letters Patent was filed on December 24, 2019, as Application No. 16/626,468, which application is a U.S. national stage entry of International Application No. **PCT/JP2018/023574**, filed on **June 21, 2018**, and which claims benefit of Japanese Patent Application No. **2017-124728**, filed **June 27, 2017**;

WHEREAS, **NIPPON TELEGRAPH AND TELEPHONE CORPORATION**, a corporation, having its office at **5-1, Otemachi 1-chome, Chiyoda-ku, Tokyo 100-8116, Japan**, (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire interest therein world-wide;

NOW THEREFORE, in view of good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto ASSIGNEE, its successors and assigns, the full and exclusive right, title, and interest in and to (a) the above-identified invention or inventions and all improvements and modifications thereof, (b) the above-identified provisional application and all other applications for Letters Patent of the United States and countries foreign thereto for the above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representatives or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **The Marbury Law Group PLLC** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **The Marbury Law Group PLLC** do not personally represent ASSIGNOR or ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

NAMES AND SIGNATURES OF INVENTORS (date required)			
Name: Toshiya MATSUDA	Signature: <i>Toshiya Matsuda</i>	Date: DEC. 1 1. 2019	Witnessed by:
Name: Toru HOMEMOTO	Signature: <i>Toru Homemoto</i>	Date: DEC. 1 1. 2019	Witnessed by:
Name: Kana MASUMOTO	Signature: <i>Kana Masumoto</i>	Date: DEC. 1 1. 2019	Witnessed by:
Name: Masaru KATAYAMA	Signature: <i>Masaru Katayama</i>	Date: DEC. 1 1. 2019	Witnessed by:
Name: Katsutoshi KODA	Signature: <i>Katsutoshi Koda</i>	Date: DEC. 1 1. 2019	Witnessed by:

Note: Witness signature not required, but generally advisable