PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5947919

| NATURE OF CONVEYANCE: Corrective Assignment to correct the 'DOC DATE' 08/19/2019 OF TOKUO YAMAGUCHI previously recorded on Reel 050153 Frame 0301. Assignor(s) hereby confirms the 'DOC DATE' OF TOKUO YAMAGUCHI SHOULD BE 08/20/2019. | Ŀ | SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
|--|---|------------------|--|
| | | | YAMAGUCHI previously recorded on Reel 050153 Frame 0301. Assignor(s) hereby confirms the 'DOC DATE' OF TOKUO YAMAGUCHI |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| HIDEYUKI IWAMURA | 08/19/2019 |
| TOKUO YAMAGUCHI | 08/20/2019 |

RECEIVING PARTY DATA

| Name: | OKI ELECTRIC INDUSTRY CO., LTD. |
|-----------------|---------------------------------|
| Street Address: | 1-7-12 TORANOMON, MINATO-KU |
| City: | TOKYO |
| State/Country: | JAPAN |
| Postal Code: | 105-8460 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16549812 |

CORRESPONDENCE DATA

Fax Number: (202)408-0924

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: 202-371-8976

Email: firm@rabinberdo.com **Correspondent Name:** RABIN & BERDO, P.C.

Address Line 1: 1101 14TH ST., N.W., SUITE 500

Address Line 4: WASHINGTON, D.C. 20005

| ATTORNEY DOCKET NUMBER: | TAI-433 |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | STEVEN M. RABIN |
| SIGNATURE: | /Steven M. Rabin/ |
| DATE SIGNED: | 02/05/2020 |

Total Attachments: 5

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PATENT REEL: 051832 FRAME: 0377

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PATENT REEL: 051832 FRAME: 0378

| β2 | Attorney Reference: |
|--|---|
| ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UN | IITED STATES LETTERS PATENT |
| WHEREASHideyuki IWAMURA and Tokuo YAMAGUCHI, | |
| the assignor and inventor, has invented a certain improvement relating to | rici cinator referred to collectively as |
| OPTICAL FIBER SENSOR DEVICE AND OPTICAL FIBER SENSOR | SYSTEM |
| | , |
| [X] said application being attached hereto;[] said application having been filed in the United States Patent and Trade | |
| , as Application Serial No | emark Office on |
| (if applicable): | |
| [] the specification of which was filed under the Patent Cooperation Treat | y on |
| trie United States of America being designated | ated. |
| AND WHEREAS Oki Electric Industry Co., Ltd. | _ |
| —————————————————————————————————————— | apan |
| hereinafter referred to as the assignee or applicant, is desirous of acquiring and to said application, including any and all divisions and continuations the any and all patents which may be granted therefor, including any and all renthereof; | reof, and in and to eaid invention and |
| NOW THIS WITNESSETH, that for and in consideration of One valuable consideration paid by said assignee to said assigner, the receipt of assignor hereby assigns, sells and transfers to said assignee, and said as full and exclusive right, title and interest in and to said application, continuations thereof, and in and to said invention and any and all pate including any and all renewals, reissues and prolongations thereof; successors and assigns, to have, hold, exercise and enjoy the said application continuations thereof, and the said invention and any and all patents which rand all renewals, reissues and prolongations thereof, with all the rights, panywise arising from or appertaining thereto, for and during the term or tergranted, including any and all renewals, reissues and prolongations there assignee, and said assignee's successors and assigns, in as ample and be might or could have held and enjoyed the same, if this assignment had not be | of which is hereby acknowledged, said is signee's successors and assigns, the including any and all divisions and ents which may be granted therefor, said assignee, and said assignee's ion, including any and all divisions and may be granted therefor, including any powers, privileges and advantages in this of any and all such patents when reof, for the use and benefit of said neficial a manner as the said assignor been made. |
| AND said assignor hereby agrees to perform, upon the request successors or assigns, any and all acts relating to the obtaining or to the as and all renewals, reissues and prolongations thereof. | of said assignee, or said assignee's sserting of said patents, including any |
| AND said assignor authorizes and requests the Commissioner of Letters Patent on said application, and on any and all divisions and continu- said assignee's successors and assigns, in accordance herewith. | of Patents and Trademarks to issue lations thereof, to said assignee, and |
| As an above-named inventor, I hereby declare that the above- authorized to be made by me, and that I am the original inventor or an original in the application. | identified application was made or all joint invention |
| I hereby acknowledge that any willful false statement made in this U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. | s declaration is punishable under 18 |
| Address all correspondence and telephone calls to Rabin & Berdo 500, Washington, D.C. 20005, Telephone: (202) 371-8976; Fax: (202) 408-0 | , P.C., 1101 14 th Street, N.W., Suite 924, Customer No. 23995. |
| WITNESS: ASSIGNOR (SOLE | OR FIRST INVENTOR): |
| WITNESS: Signature: Yoshihire Kanda Signature: 47 | deyuki Iwamuta |
| | Hideyuki IWAMURA |
| Legal Name: | T IIU BYUKI TVV AIVIUKA |

Continued -Page 2 ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT

| WITNESS: Signature: 4 oshihire Ken | ASSIGNOR (SECOND INVENTOR): Signature: Tokuo YAMAGUCHI Date: Argust 20, 20/9 |
|------------------------------------|--|
| WITNESS: Signature: | ASSIGNOR (THIRD INVENTOR): Signature: Legal Name: Date: |
| WITNESS: Signature: | ASSIGNOR (FOURTH INVENTOR): Signature: Legal Name: Date: |
| WITNESS: Bignature: | ASSIGNOR (FIFTH INVENTOR): Signature: Legal Name: Date: |
| WITNESS: Signature: | ASSIGNOR (SIXTH INVENTOR): Signature: Legal Name: |

RABIN & BERDO, P.C., Washington, D.C.

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5684720

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------------|----------------|
| HIDEYUKI IWAMURA | 08/19/2019 |
| TOKUO YAMAGUCHI 08/20/2019 | -08/19/2019 |

RECEIVING PARTY DATA

| Name: | OKI ELECTRIC INDUSTRY CO., LTD. |
|-----------------|---------------------------------|
| Street Address: | 1-7-12 TORANOMON, MINATO-KU |
| City: | TOKYO |
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| Postal Code: | 105-8460 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
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| Application Number: | 16549812 |

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202-371-8976 Phone:

Email: firm@rabinberdo.com Correspondent Name: RABIN & BERDO, P.C.

Address Line 1: 1101 14TH ST., N.W., SUITE 500

Address Line 4: WASHINGTON, D.C. 20005

| ATTORNEY DOCKET NUMBER: | TAI-433 |
|-------------------------|--|
| NAME OF SUBMITTER: | STEVEN M. RABIN |
| SIGNATURE: | /Steven M. Rabin/ |
| DATE SIGNED: | 08/23/2019 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |

Total Attachments: 2

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> **PATENT** REEL: 051832 FRAME: 0381



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 26, 2019

PTAS

RABIN & BERDO, P.C. 1101 14TH ST., N.W., SUITE 500 WASHINGTON, DC 20005 505637913

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RECORDATION DATE: 08/23/2019 REEL/FRAME: 050153/0301

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: TAI-433

ASSIGNOR:

IWAMURA, HIDEYUKI DOC DATE: 08/19/2019

ASSIGNOR:

YAMAGUCHI, TOKUO DOC DATE: ๑๑﴿﴿﴿كَوْمِيْكُوا وَالْكُوا وَالْمُعِلَا وَالْكُوا وَالْمُعِلِيِّ وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِّي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُعِلِي وَالْمُل

ASSIGNEE:

OKI ELECTRIC INDUSTRY CO., LTD. 1-7-12 TORANOMON, MINATO-KU TOKYO, JAPAN 105-8460

APPLICATION NUMBER: 16549812 FILING DATE: PATENT NUMBER: ISSUE DATE:

TITLE: OPTICAL FIBER SENSOR DEVICE AND OPTICAL FIBER SENSOR SYSTEM

ASSIGNMENT RECORDATION BRANCH PUBLIC RECORDS DIVISION

P.O. Box 1450, Alexandria, Virginia 22313-1450 - WWW.USPTO.GOV PATENT REEL: 051832 FRAME: 0382

505637913 08/23/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT5684720 Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| HIDEYUKI IWAMURA | 08/19/2019 |
| TOKUO YAMAGUCHI | 08/19/2019 |

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ATTORNEY DOCKET NUMBER: TAI-433

NAME OF SUBMITTER: STEVEN M. RABIN

SIGNATURE: /Steven M. Rabin/

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PATENT
RECORDED: 02/05/2020 REEL: 051832 FRAME: 0383