# 506507842 02/17/2021

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6554618

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

#### **CONVEYING PARTY DATA**

| Name               | Execution Date |
|--------------------|----------------|
| KEISHI KUBO        | 10/22/2020     |
| TAKASHI INOUE      | 10/15/2020     |
| MASATERU DOI       | 10/15/2020     |
| MAKOTO OKAZAKI     | 10/15/2020     |
| YUKIYA USUI        | 10/15/2020     |
| TAKANORI FUNABASHI | 10/15/2020     |

#### **RECEIVING PARTY DATA**

| Name: PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD. |          |
|--|----------|
| Street Address: 1-61, SHIROMI 2-CHOME, CHUO-KU, OSAKA-SHI  |          |
| City:  | OSAKA    |
| State/Country:   | JAPAN    |
| Postal Code:   | 540-6207 |

#### **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |  |
|---------------------|----------|--|
| Application Number: | 17077515 |  |

### **CORRESPONDENCE DATA**

Fax Number:

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.

**Email:** epas.pkp@ml.jp.panasonic.com

Correspondent Name: PASONA KNOWLEDGE PARTNER INC.

Address Line 1: 8F OBP PANASONIC TOWER

Address Line 2: 1-61, SHIROMI 2-CHOME, CHUO-KU

Address Line 4: OSAKA, JAPAN 540-6208

| ATTORNEY DOCKET NUMBER: | P1026847US01         |
|-------------------------|----------------------|
| NAME OF SUBMITTER:      | TETSUO HIRABAYASHI   |
| SIGNATURE:              | /Tetsuo HIRABAYASHI/ |
| DATE SIGNED:            | 02/17/2021           |

**Total Attachments: 6** 

PATENT REEL: 055278 FRAME: 0493

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PATENT REEL: 055278 FRAME: 0494

|                              | Assignment Form (Oct. 2014 | ر, |
|------------------------------|----------------------------|----|
| Panasonic Ref*: P1026847US01 | Application Serial No      |    |
| Japan Firm Name: PIPM Direct | Japan Firm Ref:            |    |
| US Firm Name*:               | US Firm Ref:               |    |
| (* must be filled)           |                            |    |

| WHEREAS, the undersigned has (have) invented the invention entitled:   |   |   |
|--|---|---|
| Box 1  |   |   |
| Title of Invention: MEASUREMENT PROBE  |   |   |
| 1. For use when signing Declaration prior to fill  | ing U.S. patent application (check only one box be              | elow)                                       |
| (a)∎for which an application for U.S. patent has been executed   | by the undersigned concurrently herev                           | vith, or                                    |
| (b) for which an application for U.S. patent has been executed   | on the following date(s):                                       | , or  |
| (if Declaration & Assignment are signed on the same day, check (a) and make no entry in the blank; if  | the Declaration was signed before this Assignment, enter the da | tte(s) on which you signed the Declaration) |
| (c) for which an International Application has been filed as:  (for the PCT-US national entry, check only (c) and enter PCT application number in the right) | PCT Application No.   | and   |
| 2. For use when signing Declara  | ation after filing U.S. patent application                      |   |
| (d)□ for which an application for U.S. patent has been filed on:   | Application Filing Date   | and,  |

WHEREAS, Panasonic Intellectual Property Management Co., Ltd. of 1-61, Shiromi 2-chome, Chuo-ku, Osaka-shi, Osaka 540-6207 Japan,

its/their heirs, successors, legal representatives and assigns (hereinafter designated as "Assignee(s)") is/are desirous of acquiring the entire right, title, and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and intended to be legally bound hereby, the undersigned, by these presents, does sell, assign and transfer unto said Assignee(s) the entire and exclusive right, title and interest in and to; (i) said invention in the United States of America, its territories, dependencies and possessions (hereinafter designated as the United States) and in all countries foreign to the United States; and (ii) this patent application and any and all related patent application(s) disclosing said invention, including provisionals, non-provisionals, conversions, divisions, continuations, continuations-in-part and reissues thereof in the United States and all countries foreign to the United States (hereinafter designated as "Related Applications"), along with all rights of priority created by this patent application under any treaty relating thereto; and (iii) any and all Letters Patent(s), including all renewals, extensions, reissues and reexamination certificates which may be granted therefore, and all rights to sue for past and future infringement thereunder, in the United States and in all countries foreign to the United States for the full term or terms thereof.

The undersigned agree(s) to execute all papers necessary in connection with this application and any and all Related Applications thereof, all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements, all papers necessary in connection with any interference which may be declared concerning this application or any and all Related Applications thereof and to cooperate with the Assignee(s) in every way possible in obtaining and producing evidence and proceeding with such interference, and for any and all litigations regarding, or for the purpose of protecting the right, title and interest in and to said invention, this application and any and all Related Applications or Letters Patent(s) therefore, and to testify in any legal proceeding relating thereto and in support thereof, for the benefit of Assignee(s), and also to execute separate assignments in connection with such applications as the Assignee(s) may deem necessary or expedient.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States and any foreign patent(s) to the Assignee(s) and to vest all rights hereby conveyed to the Assignee(s) as fully and entirely as the same would have been held by the undersigned if this Assignment had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents, and officials of all foreign countries, whose duty is to issue patents, to issue any and all Letters Patent(s) resulting from said application or any and all Related Applications thereof to said Assignee(s) and hereby covenants that the undersigned has (have) full right to convey the entire interest herein assigned, and that the undersigned has (have) not executed, and will not execute any assignment sale agreement or encumbrances in conflict herewith

executed, and will not execute, any assignment, sale, agreement or encumbrances in conflict herewith.

The undersigned hereby does sell, assign and transfer unto said Assignee(s) the full and exclusive authority for revoking power of attorney(s) executed by the undersigned in connection with this application and for appointing a new power of attorney in place thereof.

The undersigned hereby grant(s) the Assignee(s) and the appointed U.S. patent attorneys and agents the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent Office for recordation of this document.

The undersigned hereby agree(s) that the above obligations shall apply to the undersigned both individually and collectively.

The undersigned hereby agree(s) that this Assignment shall be construed in accordance with the law of the appropriate jurisdiction within the United States

IN WITNESS WHEREOE, executed by the undersigned on the date(s) following the undersigned name(s) and signature(s).

| Box2 |                           | below)        |                                 |
|------|---------------------------|---------------|---------------------------------|
|      | (e) First Name, Last Name | (f) Signature | (g) Date signed                 |
| (1)  | Keishi KUBO               | Keishi Kubo   | Month, Date, Year Oct. 27. 2020 |
| (2)  | Takashi INOUE             |               | Month, Date, Year               |
| (3)  | Masateru DOI              |               | Month, Date, Year               |
| (4)  | Makoto OKAZAKI            |               | Month, Date, Year               |

■Check if additional paper(s) is/are attached. Total of \_\_\_\_\_ page(s) is/are submitted.

|                              | Assignment Form (Oct. 2014) |
|------------------------------|-----------------------------|
| Panasonic Ref*: P1026847US01 | Application Serial No       |
| Japan Firm Name: PIPM Direct | Japan Firm Ref:             |
| US Firm Name*:               | US Firm Ref:                |
| (* must be filled)           |                             |

| WHEREAS, the undersigned has (have) invented the invention entitled:                                  |  |   |
|---|--|---|
| Box 1   |  |   |
| Title of Invention:   |  | •   |
| MEASUREMENT PROBE   |  |   |
|   |  |   |
| 1. For use when signing Declaration prior to file   | ing U.S. patent application (check o         | nly one box below)  |
| (a)∎for which an application for U.S. patent has been executed  | by the undersigned concur                    | rently herewith, or   |
| (b)□ for which an application for U.S. patent has been executed                                       | on the following date(s):                    | , or  |
| (if Declaration & Assignment are signed on the same day, check (a) and make no entry in the blank; if | the Declaration was signed before this Assig | nment, enter the date(s) on which you signed the Declaration) |
| (c)□ for which an International Application has been filed as:  | PCT Application No.                          | and   |
| (for the PCT-US national entry, check only (c) and enter PCT application number in the right)         | PCT Application No.                          | and   |
| 2. For use when signing Declara   | tion after filing U.S. patent applicat       | ion   |
| (d)  for which an application for U.S. patent has been filed on:                                      | Application Filing Date                      | and,  |

WHEREAS, Panasonic Intellectual Property Management Co., Ltd. of 1-61, Shiromi 2-chome, Chuo-ku, Osaka-shi, Osaka 540-6207 Japan,

its/their heirs, successors, legal representatives and assigns (hereinafter designated as "Assignee(s)") is/are desirous of acquiring the entire right, title, and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and intended to be legally bound hereby, the undersigned, by these presents, does sell, assign and transfer unto said Assignee(s) the entire and exclusive right, title and interest in and to; (i) said invention in the United States of America, its territories, dependencies and possessions (hereinafter designated as the United States) and in all countries foreign to the United States; and (ii) this patent application and any and all related patent application(s) disclosing said invention, including provisionals, non-provisionals, conversions, divisions, continuations, continuations-in-part and reissues thereof in the United States and all countries foreign to the United States (hereinafter designated as "Related Applications"), along with all rights of priority created by this patent application under any treaty relating thereto; and (iii) any and all Letters Patent(s), including all renewals, extensions, reissues and reexamination certificates which may be granted therefore, and all rights to sue for past and future infringement thereunder, in the United States and in all countries foreign to the United States for the full term or terms thereof.

The undersigned agree(s) to execute all papers necessary in connection with this application and any and all Related Applications thereof, all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements, all papers necessary in connection with any interference which may be declared concerning this application or any and all Related Applications thereof and to cooperate with the Assignee(s) in every way possible in obtaining and producing evidence and proceeding with such interference, and for any and all litigations regarding, or for the purpose of protecting the right, title and interest in and to said invention, this application and any and all Related Applications or Letters Patent(s) therefore, and to testify in any legal proceeding relating thereto and in support thereof, for the benefit of Assignee(s), and also to execute separate assignments in connection with such applications as the Assignee(s) may deem necessary or expedient.

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IN WITNESS WHEREOF, executed by the undersigned on the date(s) following the undersigned name(s) and signature(s).

| Box2 | Box2 (Each Inventor, please Sign and Date below) |               |                                 |
|------|--|---------------|---------------------------------|
|      | (e) First Name, Last Name                        | (f) Signature | (g) Date signed                 |
| (1)  | Keishi KUBO                                      |               | Month, Date, Year               |
| (2)  | Takashi INOUE                                    | Takashi Inoue | Month, Date, Year Oct. 15, 2020 |
| (3)  | Masateru DOI                                     |               | Month, Date, Year               |
| (4)  | Makoto OKAZAKI                                   |               | Month, Date, Year               |

■Check if additional paper(s) is/are attached. Total of \_\_\_2 page(s) is/are submitted.

|                              | Assignment Form (Oct. 2014) |
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| Panasonic Ref*: P1026847US01 | Application Serial No       |
| Japan Firm Name: PIPM Direct | Japan Firm Ref:             |
| US Firm Name*:               | US Firm Ref:                |
| (* must be filled)           |                             |

| WHEREAS, the undersigned has (have) invented the invention entitled:                                    |  |   |        |
|---|--|---|--------|
| Box 1   |  |   |        |
| Title of Invention:   |  |   |        |
| MEASUREMENT PROBE   |  |   |        |
|   |  |   |        |
| 1. For use when signing Declaration prior to fili   | ng U.S. patent application (check o          | only one box below)                                       |        |
| (a)∎for which an application for U.S. patent has been executed  | by the undersigned concur                    | rently herewith, or                                       |        |
| (b) for which an application for U.S. patent has been executed  | on the following date(s):                    |   | or     |
| (if Declaration & Assignment are signed on the same day, check (a) and make no entry in the blank; if t | he Declaration was signed before this Assign | nnient, enter the date(s) on which you signed the Declara | ttion) |
| (c)□ for which an International Application has been filed as:  | PCT Application No.                          |   | and    |
| (for the PCT-US national entry, check only (c) and enter PCT application number in the right)           | PCT Application No.                          |   | anu    |
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| (d)□ for which an application for U.S. patent has been filed on:  | Application Filing Date                      |   | and,   |

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IN WITNESS WHEREOF, executed by the undersigned on the date(s) following the undersigned name(s) and signature(s).

| Box2 | (Each Inventor, please Sign and Date | e below)      |                                 |
|------|--------------------------------------|---------------|---------------------------------|
|      | (e) First Name, Last Name            | (f) Signature | (g) Date signed                 |
| (1)  | Keishi KUBO                          |               | Month, Date, Year               |
| (2)  | Takashi INOUE                        |               | Month, Date, Year               |
| (3)  | Masateru DOI                         | masateru Doi  | Month, Date, Year Oct. 15, 2020 |
| (4)  | Makoto OKAZAKI                       |               | Month, Date, Year               |

■Check if additional paper(s) is/are attached. Total of 2 page(s) is/are submitted.

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|------------------------------|-----------------------------|
| Panasonic Ref*: P1026847US01 | Application Serial No       |
| Japan Firm Name: PIPM Direct | Japan Firm Ref:             |
| US Firm Name*:               | US Firm Ref:                |
| (* must be filled)           |                             |

| WHEREAS | the undersigned b | ac (have) invent | ted the inventior | entitled: |
|---------|-------------------|------------------|-------------------|-----------|

| THE INTERIOR OF THE CONTROL OF THE C |  |   |
|--|--|---|
| Box 1  |  |   |
| Title of Invention:  |  |   |
| MEASUREMENT PROBE  |  |   |
|  |  |   |
| 1. For use when signing Declaration prior to fili  | ing U.S. patent application (check o         | only one box below)   |
| (a)∎ for which an application for U.S. patent has been executed  | by the undersigned concur                    | rently herewith, or   |
| (b)□ for which an application for U.S. patent has been executed  | on the following date(s):                    | , or  |
| (if Declaration & Assignment are signed on the same day, check (a) and make no entry in the blank; if i  | the Declaration was signed before this Assig | nment, enter the date(s) on which you signed the Declaration) |
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| (for the PCT-US national entry, check only (c) and enter PCT application number in the right)  | FOT Application No.                          | and   |
| 2. For use when signing Declara  | tion after filing U.S. patent applicat       | ion   |
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WHEREAS, Panasonic Intellectual Property Management Co., Ltd. of 1-61, Shiromi 2-chome, Chuo-ku, Osaka-shi, Osaka 540-6207 Japan,

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| Box2 |                           | e below)       | 3 7                             |
|------|---------------------------|----------------|---------------------------------|
|      | (e) First Name, Last Name | (f) Signature  | (g) Date signed                 |
| (1)  | Keishi KUBO               |                | Month, Date, Year               |
| (2)  | Takashi INOUE             |                | Month, Date, Year               |
| (3)  | Masateru DOI              |                | Month, Date, Year               |
| (4)  | Makoto OKAZAKI            | Makoto Okazaki | Month, Date, Year  Oct 15, 2020 |

■Check if additional paper(s) is/are attached. Total of \_\_\_2\_ page(s) is/are submitted.

# **ASSIGNMENT (Cont.)**

Additional Inventors:

| Box2 (0 | Continued)                |                                       |                   |
|---------|---------------------------|---------------------------------------|-------------------|
|         | (e) First Name, Last Name | (f) Signature                         | (g) Date signed   |
| (5)     | Yukiya USUI               | Yukiyo Usui                           | Month, Date, Year |
| _       |                           |                                       | Oct. 15. 2020     |
| (6)     | Takanori FUNABASHI        |                                       | Month, Date, Year |
| (7)     |                           |                                       | Month, Date, Year |
| (8)     |                           |                                       | Month, Dale, Year |
| (9)     |                           |                                       | Month, Date, Year |
| 10)     |                           |                                       | Month, Date, Year |
| 11)     |                           |                                       | Month, Date, Year |
| 12)     |                           |                                       | Month, Dale, Year |
| 13)     |                           | · · · · · · · · · · · · · · · · · · · | Month, Date, Year |
| (14)    |                           |                                       | Month, Date, Year |
| (15)    |                           |                                       | Month, Date, Year |
| (16)    |                           |                                       | Month, Date, Year |
| 17)     |                           |                                       | Month, Date, Year |
| 18)     |                           |                                       | Month, Date, Year |
| 19)     |                           |                                       | Month, Date, Year |
| 20)     |                           |                                       | Month, Date, Year |
| 21)     |                           |                                       | Month, Dale, Year |
| 22)     |                           |                                       | Month, Date, Year |

 $\Box$ Check if additional paper(s) is/are attached. Total of  $\underline{\phantom{a}}$  page(s) is/are submitted.

PATENT REEL: 055278 FRAME: 0499

# **ASSIGNMENT (Cont.)**

Additional Inventors:

| onal Inventors:<br>Continued) |   |   |
|-------------------------------|---|---|
| (e) First Name, Last Name     | (f) Signature   | (g) Date signed   |
| Yukiya USUI                   |   | Month, Date, Year   |
| Takanori FUNABASHI            | Takanori Funabashi  | Month, Date, Year Oct. 15, 2020   |
|                               |   | Month, Date, Year   |
|                               | Continued) (e) First Name, Last Name Yukiya USUI Takanori FUNABASHI | Continued)  (e) First Name, Last Name Yukiya USUI  Takanori FUNABASHI  Takanori Funabashi |

 $\ \square$  Check if additional paper(s) is/are attached. Total of  $\ \underline{\ \ 2\ }$  page(s) is/are submitted.

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