# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5113640

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

#### **CONVEYING PARTY DATA**

| Name          | Execution Date |
|---------------|----------------|
| TAKUYA BUNGO  | 08/23/2018     |
| ATSUSHI OKUBO | 08/23/2018     |
| TAIJI SAKAI   | 08/23/2018     |

### **RECEIVING PARTY DATA**

| Name:           | T.RAD CO., LTD.                  |
|-----------------|----------------------------------|
| Street Address: | 25-3, YOYOGI 3-CHOME, SHIBUYA-KU |
| City:           | TOKYO                            |
| State/Country:  | JAPAN                            |
| Postal Code:    | 151-0053                         |

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

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 16080446 |

### CORRESPONDENCE DATA

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

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Email: cbhamburg@nmmlaw.com C. BRUCE HAMBURG **Correspondent Name:** 

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Address Line 2: 875 THIRD AVENUE, 8TH FLOOR Address Line 4: NEW YORK, NEW YORK 10022

| ATTORNEY DOCKET NUMBER: | 122107-17  |  |
|-------------------------|--|--|
| NAME OF SUBMITTER:      | C. BRUCE HAMBURG   |  |
| SIGNATURE:              | /C. BRUCE HAMBURG/   |  |
| DATE SIGNED:            | 08/28/2018   |  |
|                         | This document serves as an Oath/Declaration (37 CFR 1.63). |  |

## **Total Attachments: 3**

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**PATENT REEL: 046725 FRAME: 0430** 505066884

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PATENT REEL: 046725 FRAME: 0431

**LEGAL NAME OF INVENTOR** 

Inventor: Takuya BUNGO

Signature:

Norris McLaughlin & Marcus, P.A. Client's Ref.: H15-046,068-US Attorney Docket No.: 122107-17 COMBINATION DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT PLATE LAMINATE TYPE HEAT EXCHANGER Title of Invention As the below named inventor, I hereby declare that: This declaration is directed to: 

The above-identified application, or ☐ United States application \_\_\_ \_\_\_\_, filed on \_ ☑ PCT application number PCT/JP2017/011074

, filed on March 13, 2017 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. 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. I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including further continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application In consideration of One Dollar (\$1.00) in hand paid and other good and valuable considerations, the receipt of which is hereby acknowledged, I hereby assign and transfer to T.RAD Co., Ltd., whose address is 25-3, Yoyogi 3-chome, Shibuya-ku, Tokyo, 151-0053, Japan, a Japan Corporation (hereinafter named "Assignee"), its successors, legal representatives and assigns, the entire right, title and interest in and to said invention for Letters Patent of the United States, filed as said application and to the entire right, title and interest in any and all inventions, whether joint or sole, disclosed in said application for Letters Patent, and in any and all divisional or continuation or renewal applications that may be filed for United States Letters Patent for any and all of said inventions, and in and to any and all patents that may be granted on the foregoing applications and any reissue or extension thereof. I hereby authorize and request the Commissioner of Patents to issue any and all of said Letters Patent to said Assignee. For said consideration, I hereby agree upon the request of said Assignee, its successors, legal representatives or assigns, to execute any and all United States divisional, continuation and renewal applications for said invention, and any and all necessary oaths, supplemental oaths or declarations or supplemental declarations or affidavits relating thereto, and any application for the reissue or extension of any United States Letters Patent that may be granted upon said application that said Assignee, its successors, legal representatives or assigns may deem necessary or expedient. For the said consideration, I further agree upon the request of said Assignee, its successors, legal representatives or assigns, in the event of said application or any division thereof, or Letters Patent issued thereon or any reissue or application for the reissue thereof, becoming involved in interference, to cooperate to the best of my ability with said Assignee, its successors, legal representatives or assigns in the matters of preparing and executing the Preliminary Statement and giving and producing evidence in support thereof, I hereby agree to perform upon such request, any and all affirmative acts necessary to obtain said Letters Patent and vest all rights therein hereby conveyed in said Assignee, its successors, legal representatives or assigns as fully and entirely as the same would have been held and enjoyed if this assignment and sale had not been made. I hereby bind myself, my heirs, legal representatives, administrators, and assign properly to execute without further consideration, any and all applications, petitions, oaths, assignments or other papers and instruments which may be necessary in order to carry into full force and effect the sale, assignment and transfer hereby made, or intended or agreed to be made. And for said considerations, I hereby assign to said Assignee, its successors, legal representatives and assigns, the entire right, title and interest in said invention or improvement for any and all foreign countries and agree upon the request of said Assignee, its successors, legal representatives or assigns to execute any and all documents that shall be required to be executed in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to invest title in said foreign applications and patents in said Assignee, its successors, legal representatives or assigns.

Note: An application data sheet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional PTO/SB/AIA01 form for each additional inventor.

Date: Jugust 23, 2018

Client's Ref.: H15-046,068-US

|  | DECLARATION (37 CFR 1.63) FOR UNITED STATES (37 CFR 1.63) FOR | JTILITY OR DESIGN APPLICATION US   |   |
|--|---|--|---|
| Title of Invention   | PLATE LAMINATE TYPE HEAT EXCH   |  |   |
| As the below named inve  | entor, I hereby declare that:   |  |   |
| This declaration is directed   | •   | r  |   |
|  | ☐ United States application   | , filed on   | or  |
|  | ■ PCT application number <u>PCT/JP2</u>   | 017/011074 , filed on <u>March 13, 2017</u>  | ·····•  |
| The above-identified a   | application was made or authorized to be made   | e by me.   |   |
| I believe that I am the  | original inventor or an original joint inventor of  | a claimed invention in the application.  | -   |
| I hereby acknowledge imprisonment of not more  | e that any willful false statement made in thi<br>e than five (5) years, or both.   | s declaration is punishable under 18 U.S.C. 1001   | l by fine or  |
|  | have reviewed and understand the contents<br>ment specifically referred to above,   | of the above-identified application, including the   | claims, as  |
| continuation-in-part appli   |   | to patentability as defined in 37 CFR 1.56, including railable between the filing date of the prior applicat cation  |   |
| acknowledged, I hereby<br>151-0053, Japan, a Japa<br>right, title and interest in<br>title and interest in any a<br>divisional or continuation   | assign and transfer to T.RAD Co., Ltd., who<br>an Corporation (hereinafter named "Assignee"<br>and to said invention for Letters Patent of the<br>and all inventions, whether joint or sole, discle<br>or renewal applications that may be filed for  | d and valuable considerations, the receipt of which se address is 25-3, Yoyogi 3-chome, Shibuya-), its successors, legal representatives and assigns United States, filed as said application and to the expect in said application for Letters Patent, and in Juited States Letters Patent for any and all of said applications and any reissue or extension thereof. | ku, Tokyo,<br>s, the entire<br>entire right,<br>any and all |
| I hereby authorize and   | request the Commissioner of Patents to issue  | e any and all of said Letters Patent to said Assignee  | <b>)</b> .  |
| execute any and all Unit<br>oaths, supplemental oat<br>reissue or extension of   | ted States divisional, continuation and renew<br>hs or declarations or supplemental declaration   | Assignee, its successors, legal representatives or all applications for said invention, and any and all ons or affidavits relating thereto, and any application be granted upon said application that said Asexpedient.  | necessary<br>tion for the                                   |
| For the said consideration, I further agree upon the request of said Assignee, its successors, legal representatives or assigns, in the event of said application or any division thereof, or Letters Patent issued thereon or any reissue or application for the reissue thereof, becoming involved in interference, to cooperate to the best of my ability with said Assignee, its successors, legal representatives or assigns in the matters of preparing and executing the Preliminary Statement and giving and producing evidence in support thereof, I hereby agree to perform upon such request, any and all affirmative acts necessary to obtain said Letters Patent and vest all rights therein hereby conveyed in said Assignee, its successors, legal representatives or assigns as fully and entirely as the same would have been held and enjoyed if this assignment and sale had not been made. |   |  | the reissue<br>sors, legal<br>evidence in<br>Patent and     |
| any and all applications,  |   | , and assign properly to execute without further cor<br>and instruments which may be necessary in order to<br>ntended or agreed to be made.  |   |
| title and interest in said in<br>successors, legal represe<br>with any and all applica   | nvention or improvement for any and all foreig<br>entatives or assigns to execute any and all do<br>tions for foreign Letters Patent therefor, inc  | uccessors, legal representatives and assigns, the or countries and agree upon the request of said Assocuments that shall be required to be executed in luding the prosecution thereof, and to execute a ents in said Assignee, its successors, legal represents  | ssignee, its<br>connection<br>any and all                   |
| LEGAL NAME OF INVE   | NTOR  | 1 2 2  |   |
| Inventor: Atsushi OKL<br>Signature: ATSUS  | JBO Dat   | e: August 23,2018  |   |
| <i>.</i>   |   |  |   |
| Note: An application data s<br>form. Use an additional PT  | heet (PTO/AIA/14 or equivalent), including namir<br>O/SB/AIA01 form for each additional inventor.   | ng the entire inventive entity, must accompany this  | •   |

Client's Ref.: H15-046,068-US

|  | ECLARATION (37 CFR 1.63) FOR UTILITY<br>APPLICATION DATA SHEET (37 CFR 1.76   |  |
|--|---|--|
| Title of Invention   | PLATE LAMINATE TYPE HEAT EXCHANGER  |  |
| As the below named inve  | entor, I hereby declare that:   |  |
| This declaration is directed   | -   |  |
|  | ☐ United States application   | , filed onor   |
|  | ☑ PCT application number PCT/JP2017/0110  | 74, filed on <u>March 13, 2017</u>   |
| The above-identified a   | 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  | d invention in the application.  |
|  | e that any willful false statement made in this declarate than five (5) years, or both.   | tion is punishable under 18 U.S.C. 1001 by fine or   |
|  | have reviewed and understand the contents of the a nent specifically referred to above,   | bove-identified application, including the claims, as  |
| continuation-in-part applic  | aty to disclose information which is material to patenta<br>cations, material information which became available be<br>onal filing date of the continuation-in-part application | ability as defined in 37 CFR 1.56, including further etween the filing date of the prior application and the |
| In consideration of One Dollar (\$1.00) in hand paid and other good and valuable considerations, the receipt of which is hereby acknowledged, I hereby assign and transfer to T.RAD Co., Ltd., whose address is 25-3, Yoyogi 3-chome, Shibuya-ku, Tokyo, 151-0053, Japan, a Japan Corporation (hereinafter named "Assignee"), its successors, legal representatives and assigns, the entire right, title and interest in and to said invention for Letters Patent of the United States, filed as said application and to the entire right, title and interest in any and all inventions, whether joint or sole, disclosed in said application for Letters Patent, and in any and all divisional or continuation or renewal applications that may be filed for United States Letters Patent for any and all of said inventions, and in and to any and all patents that may be granted on the foregoing applications and any reissue or extension thereof. |   |  |
| I hereby authorize and   | request the Commissioner of Patents to issue any and  | all of said Letters Patent to said Assignee.   |
| For said consideration, I hereby agree upon the request of said Assignee, its successors, legal representatives or assigns, to execute any and all United States divisional, continuation and renewal applications for said invention, and any and all necessary oaths, supplemental oaths or declarations or supplemental declarations or affidavits relating thereto, and any application for the reissue or extension of any United States Letters Patent that may be granted upon said application that said Assignee, its successors, legal representatives or assigns may deem necessary or expedient.   |   |  |
| For the said consideration, I further agree upon the request of said Assignee, its successors, legal representatives or assigns, in the event of said application or any division thereof, or Letters Patent issued thereon or any reissue or application for the reissue thereof, becoming involved in interference, to cooperate to the best of my ability with said Assignee, its successors, legal representatives or assigns in the matters of preparing and executing the Preliminary Statement and giving and producing evidence in support thereof, I hereby agree to perform upon such request, any and all affirmative acts necessary to obtain said Letters Patent and vest all rights therein hereby conveyed in said Assignee, its successors, legal representatives or assigns as fully and entirely as the same would have been held and enjoyed if this assignment and sale had not been made.   |   |  |
| I hereby bind myself, my heirs, legal representatives, administrators, and assign properly to execute without further consideration, any and all applications, petitions, oaths, assignments or other papers and instruments which may be necessary in order to carry into full force and effect the sale, assignment and transfer hereby made, or intended or agreed to be made.  |   |  |
| And for said considerations, I hereby assign to said Assignee, its successors, legal representatives and assigns, the entire right, title and interest in said invention or improvement for any and all foreign countries and agree upon the request of said Assignee, its successors, legal representatives or assigns to execute any and all documents that shall be required to be executed in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to invest title in said foreign applications and patents in said Assignee, its successors, legal representatives or assigns.   |   |  |
| LEGAL NAME OF INVE   |   |  |
| Inventor: Taiji SAKAI  | Date: <u></u>   | qust 23,2018   |
| Signature: Taifi   | Jakai   |  |
| Note: An application data sl<br>form. Use an additional PTC  | heet (PTO/AIA/14 or equivalent), including naming the enti<br>O/SB/AIA01 form for each additional inventor.   | re inventive entity, must accompany this   |

PATENT REEL: 046725 FRAME: 0434

**RECORDED: 08/28/2018**