PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5408954

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ATSUSHI OKUBO	03/06/2019
TAKUYA BUNGO	03/06/2019
TAIJI SAKAI	03/06/2019

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:	15118918

CORRESPONDENCE DATA

Fax Number: (212)808-0844

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: 212-808-0700

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

Address Line 1: NORRIS MCLAUGHLIN & MARCUS, P.A.

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

ATTORNEY DOCKET NUMBER:	122107-4
NAME OF SUBMITTER:	C. BRUCE HAMBURG
SIGNATURE:	/C. BRUCE HAMBURG/
DATE SIGNED: 03/07/2019	
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

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> **PATENT** REEL: 048526 FRAME: 0524

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PATENT REEL: 048526 FRAME: 0525

Norris McLaughlin & Marcus, P.A. Attorney Docket No.: 122107-4

	ECLARATION (37 CF APPLICATION DATA				LICATION USING AN ENT
-	HEAT EXCHANGER				
As the below named inven	itor, I hereby declare that:				
This declaration is directed	d to: ☐ The above-iden	tified application	on, or		
	■ United States a	pplication	15/118,918	, filed on	August 15, 2016 or
	☐ PCT application	number <u>PCT/</u>	JP20 <u>15/054510</u>	, filed on <u>Fe</u>	ebruary 12, 2015
•	pplication was made or auti		•		
I believe that I am the o	original inventor or an origin	nal joint invent	or of a claimed invent	ion in the applic	ation.
I hereby acknowledge imprisonment of not more			n this declaration is p	ounishable und	er 18 U.S.C. 1001 by fine or
	ave reviewed and unders ent specifically referred to		ents of the above-id	entified applica	tion, including the claims, as
	ations, material information	n which becam	ne available between		7 CFR 1.56, including further f the prior application and the
acknowledged, I hereby a 151-0053, Japan, a Japan right, title and interest in a title and interest in any ar	ssign and transfer to T.RA n Corporation (hereinafter and to said invention for Le nd all inventions, whether in the renewal applications that	AD Co., Ltd., named "Assign tters Patent of joint or sole, o t may be filed	whose address is 2 nee"), its successors, ithe United States, fil lisclosed in said appl for United States Let	5-3, Yoyogi 3- legal represent ed as said appl ication for Lette ters Patent for a	he receipt of which is hereby chome, Shibuya-ku, Tokyo, atives and assigns, the entire ication and to the entire right, ars Patent, and in any and all any and all of said inventions, extension thereof.
I hereby authorize and	request the Commissioner	of Patents to i	ssue any and all of sa	aid Letters Pater	nt to said Assignee.
execute any and all Unite oaths, supplemental oaths	ed States divisional, contin s or declarations or suppl any United States Letters	nuation and re lemental decla Patent that	newal applications for trations or affidavits may be granted up	r said inventior relating thereto	epresentatives or assigns, to n, and any and all necessary , and any application for the ation that said Assignee, its
the event of said applicati thereof, becoming involve representatives or assigns support thereof, I hereby a	ion or any division thereof ed in interference, to coo in the matters of preparing gree to perform upon such by conveyed in said Assig	, or Letters Pa operate to the g and executing request, any a nee, its succe	atent issued thereon e best of my ability ig the Preliminary Sta and all affirmative act ssors, legal represen	or any reissue with said Ass tement and givi s necessary to d tatives or assign	representatives or assigns, in or application for the reissue signee, its successors, legaling and producing evidence in obtain said Letters Patent and his as fully and entirely as the
	etitions, oaths, assignment	s or other pap	ers and instruments v	vhich may be no	without further consideration, ecessary in order to carry into
title and interest in said inv successors, legal represer with any and all applicati	vention or improvement for ntatives or assigns to exec ons for foreign Letters Pa	r any and all fo cute any and a atent therefor,	oreign countries and all documents that sh including the prose	agree upon the all be required cution thereof,	and assigns, the entire right, request of said Assignee, its to be executed in connection and to execute any and all sors, legal representatives or
LEGAL NAME OF INVE	NTOR		, , ,		.0
Inventor: Atsushi OKUE			Date: March	<u>, 6,20</u>	<u>'/ </u>
Signature: ATSUS					
Note: An application data sh form. Use an additional PTC				tive entity, must	accompany this

Client's Ref.: H13-053-US

	CLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN PPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT
	HEAT EXCHANGER
As the below named inven	tor, I hereby declare that:
This declaration is directed	d to: ☐ The above-identified application, or
	☑ United States application <u>15/118,918</u> , filed on <u>August 15, 2016</u> or
	□ PCT application number <u>PCT/JP2015/054510</u> , filed on <u>February 12, 2015</u> .
The above-identified ap	plication was made or authorized to be made by me.
I believe that I am the o	riginal inventor or an original joint inventor of a claimed invention in the application.
	that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or than five (5) years, or both.
	ave reviewed and understand the contents of the above-identified application, including the claims, as ent specifically referred to above,
continuation-in-part applica	y to disclose information which is material to patentability as defined in 37 CFR 1.56, including further ations, material information which became available between the filing date of the prior application and the nat filing date of the continuation-in-part application
acknowledged, I hereby a 151-0053, Japan, a Japar right, title and interest in a title and interest in any ardivisional or continuation of	e Dollar (\$1.00) in hand paid and other good and valuable considerations, the receipt of which is hereby ssign and transfer to T.RAD Co., Ltd., whose address is 25-3, Yoyogi 3-chome, Shibuya-ku, Tokyo, a Corporation (hereinafter named "Assignee"), its successors, legal representatives and assigns, the entire nd to said invention for Letters Patent of the United States, filed as said application and to the entire right, and all inventions, whether joint or sole, disclosed in said application for Letters Patent, and in any and all or renewal applications that may be filed for United States Letters Patent for any and all of said inventions, atents that may be granted on the foregoing applications and any reissue or extension thereof.
I hereby authorize and i	request the Commissioner of Patents to issue any and all of said Letters Patent to said Assignee.
execute any and all Unite oaths, supplemental oaths reissue or extension of a	I hereby agree upon the request of said Assignee, its successors, legal representatives or assigns, to d States divisional, continuation and renewal applications for said invention, and any and all necessary s or declarations or supplemental declarations or affidavits relating thereto, and any application for the any United States Letters Patent that may be granted upon said application that said Assignee, its statives or assigns may deem necessary or expedient.
the event of said applicati thereof, becoming involve representatives or assigns support thereof, I hereby a vest all rights therein herel	ion, I further agree upon the request of said Assignee, its successors, legal representatives or assigns, in on or any division thereof, or Letters Patent issued thereon or any reissue or application for the reissue of in interference, to cooperate to the best of my ability with said Assignee, its successors, legal in the matters of preparing and executing the Preliminary Statement and giving and producing evidence in gree to perform upon such request, any and all affirmative acts necessary to obtain said Letters Patent and by conveyed in said Assignee, its successors, legal representatives or assigns as fully and entirely as the d and enjoyed if this assignment and sale had not been made.
any and all applications, pe	y heirs, legal representatives, administrators, and assign properly to execute without further consideration, etitions, oaths, assignments or other papers and instruments which may be necessary in order to carry into e, 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 INVEN	NTOR III
Inventor: Takuya BUNG	
Signature: Takuya	Bungo
Note: An application data sh form. Use an additional PTO	eet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this /SB/AIA01 form for each additional inventor.

PATENT REEL: 048526 FRAME: 0527 Client's Ref.: H13-053-US

COMBINATION DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT		
Title of Invention	HEAT EXCHANGER	
As the below named inven	tor, I hereby declare that:	
This declaration is directed	to: ☐ The above-identified application, or	
	☑ United States application <u>15/118,918</u> , filed on <u>August 15, 2016</u> or	
	□ PCT application number <u>PCT/JP2015/054510</u> , filed on <u>February 12, 2015</u> .	
The above-identified ap	plication was made or authorized to be made by me.	
I believe that I am the o	riginal 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 than five (5) years, or both.	
	ave reviewed and understand the contents of the above-identified application, including the claims, as ent specifically referred to above,	
continuation-in-part applica	y to disclose information which is material to patentability as defined in 37 CFR 1.56, including further ations, material information which became available between the filing date of the prior application and the hal filing date of the continuation-in-part application	
acknowledged, I hereby a 151-0053, Japan, a Japan right, title and interest in any ar divisional or continuation of and in and to any and all p	e Dollar (\$1.00) in hand paid and other good and valuable considerations, the receipt of which is hereby ssign and transfer to T.RAD Co., Ltd., whose address is 25-3, Yoyogi 3-chome, Shibuya-ku, Tokyo, a Corporation (hereinafter named "Assignee"), its successors, legal representatives and assigns, the entire nd to said invention for Letters Patent of the United States, filed as said application and to the entire right, and il inventions, whether joint or sole, disclosed in said application for Letters Patent, and in any and all or renewal applications that may be filed for United States Letters Patent for any and all of said inventions, atents 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.	
execute any and all Unite oaths, supplemental oaths reissue or extension of a	I hereby agree upon the request of said Assignee, its successors, legal representatives or assigns, to d States divisional, continuation and renewal applications for said invention, and any and all necessary sor declarations or supplemental declarations or affidavits relating thereto, and any application for the any United States Letters Patent that may be granted upon said application that said Assignee, its statives or assigns may deem necessary or expedient.	
the event of said applicati thereof, becoming involve representatives or assigns support thereof, I hereby a vest all rights therein here	ion, I further agree upon the request of said Assignee, its successors, legal representatives or assigns, in on or any division thereof, or Letters Patent issued thereon or any reissue or application for the reissue and in interference, to cooperate to the best of my ability with said Assignee, its successors, legal in the matters of preparing and executing the Preliminary Statement and giving and producing evidence in gree to perform upon such request, any and all affirmative acts necessary to obtain said Letters Patent and by conveyed in said Assignee, its successors, legal representatives or assigns as fully and entirely as the id and enjoyed if this assignment and sale had not been made.	
any and all applications, po	y heirs, legal representatives, administrators, and assign properly to execute without further consideration, etitions, oaths, assignments or other papers and instruments which may be necessary in order to carry into e, assignment and transfer hereby made, or intended or agreed to be made.	
title and interest in said inv successors, legal represer with any and all applicati	ions, I hereby assign to said Assignee, its successors, legal representatives and assigns, the entire right, vention or improvement for any and all foreign countries and agree upon the request of said Assignee, its natives or assigns to execute any and all documents that shall be required to be executed in connection ons for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all evest title in said foreign applications and patents in said Assignee, its successors, legal representatives or	
LEGAL NAME OF INVE	ITOR AND A	
Inventor: Taiji SAKAI	Date: March, 6th, 2019	
Signature: Tzipi	Cakad	
	eet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this //SB/AIA01 form for each additional inventor.	

PATENT REEL: 048526 FRAME: 0528