504704930 12/27/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4751652

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Soichiro KAMEI	12/20/2017
Hiromi TANIGUCHI	12/20/2017
Koji ONUMA	12/20/2017

RECEIVING PARTY DATA

Name:	Ts Tech Co., Ltd.	
Street Address:	ess: 7-27, Sakaecho 3-chome	
City:	Asaka-shi, Saitama	
State/Country:	Japan	
Postal Code:	351-0012	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15855132

CORRESPONDENCE DATA

Fax Number: (703)836-2787

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: 703-836-6400 Email: email@oliff.com **Correspondent Name:** AARON L. WEBB

Address Line 1: **OLIFF PLC**

Address Line 2: P.O. BOX 320850

Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850

ATTORNEY DOCKET NUMBER:	179666
NAME OF SUBMITTER:	JASMINE L. BARFIELD
SIGNATURE:	/Jasmine L. Barfield/
DATE SIGNED:	12/27/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2

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> **PATENT** REEL: 044490 FRAME: 0492 504704930

ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(c)) For Application with Filing Date on or after September 16, 2012

ASSIGNMENT

	Insert	(1)	Soichiro KAMEI	(2)	Hiromi TANIGUCHI	
(1-8)	Legal Name(s)	(3)	Koji ONUMA	(4)		
	of Inventor(s)	(5)		(6)		
		(7)		(8)		
	Insert Name of	In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to				
(9)	Assignee	(9) TS TECH CO., LTD.				
(10)	Insert Address of Assignee	(10)	7-27, Sakaccho 3-chome, Asa	ika-shi, Saitama 3	51-0012 Japan	
		(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as				
(11) Insert Identification such as Title, Case Number, or Foreign Application Number	such as Title, Case	(11)	SENSOR DISPOSITION STR	RUCTURE IN SEA	T	
		(Attorney Docket No.), filed on even date herewith or as				
(12)	Alternative	(12)	(12) U.S. Application Number			
	Identification for		······	······		
	filed applications	filed			Service Courts of Manager	

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute 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.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of Oi.FF PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

(13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

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.

PATENT REEL: 044490 FRAME: 0493 In witness whereof, executed by the undersigned on the data(s) opposite the undersigned name(s).

Date	Jeanser 20-2017	Inventor Signature	Soichino MAMES.	(SEAL)	
	•		Soichiro KAMEI		
Date _	Accomber 20, 2017 December 20, 2017	Inventor Signature	- Hirauti Taniquehi	(SEAL)	
			Hiromi TANIGUCHI	55.	
Date	December 20, 2011	Inventor Signature	koji Onuma Koji Onuma	(SEAL)	
	•	- · · · · · · · · · · · · · · · · · · ·	Koji ONUMA		
Date		Inventor Signature		(SEAL)	
Date		Inventor Signature		(SEAL)	
Date		Inventor Signature		(SEAL)	
Date	-	Inventor Signature		(SEAL)	
Date		Inventor Signature		(SEAL)	
		20.			
neither,	This assignment should preferably be signed then it should be signed before at least two w	I before: (a) a Notary Publi ritnesses who also sign her	ic if within the U.S.A. (b) a U.S. Consul if outside the: \mathbf{e} :	e U.S.A. if	
Date		Witness		•	
Date		Witness		5 2021 - 2000-2002	

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