505656582 09/05/2019 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY D	ΑΤΑ	·			
		Name	Execution Date		
Shou OGAWA			08/19/2019		
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City:	Okaya	Okayama-shi, Okayama			
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PROPERTY NUMBERS	5 Total: 1				
PROPERTY NUMBERS Property Type	Total: 1	Number			
	5 Total: 1	Number 16491365			
Property Type Application Number:					
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ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

(Two Assignees)

	Insert	(1)	Shou OGAWA	(2)		
(1-8)	Legal Name(s)	(3)		(4)		
	of Inventor(s)	(5)		(6)		
		(7)		(8)		
		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				
(9A)	Insert Name of First Assignce	(9A)	DOWA ELECTRONICS MATERIALS CO., UTD.			
(10A)	Insert Address of First Assignce	(10A)	14-1, Sotokanda 4-Chome, Chiyoda-ku, Tokyo 101-0021, JAPAN			
(98)	Insert Name of Second Assignee	(98)	DOWA IP CREATION CO., LTD.			
(10B)	Insert Address of Second Assignce	(10B)	7, Chikko sakae-machi, M	inami-ku, Okayama-shi, (Wayama 702-8053, JAPAN	
		the entire invention, continuati	right, title and interest for the and in all applications for pa	United States of America ent including any and all d reissue application(s), a	ccessors, assigns and legal representatives, as defined in 35 U.S.C. §100, in the provisional, non-provisional, divisional, and all Letters Patient, extensions, reissues on known as	
(11) Insert Identification such as Title, Case Number, or Foreign		(11)				
	Application Number	(Astom	ey Docket No.), filed or	even date herewith or as	
(12)	Alternative	(12)	U.S. Application Number			
	Identification for filed applications	filed				

 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 Assignees 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 patents for the invention and to cooperate with the Assignces 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 Assignees.

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 Assignees, as Assignees 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 OLIFF 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:

Thelieve 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 putilshable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

PATENT REEL: 050282 FRAME: 0127

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	<u>August 19, 2019</u>	Inventor Signature			(SEAL)
Date		Invenior Signature	Shou OGAW		(SEAL)
Date		Inventor Signature		 	(SEAL)
Bate		Inventor Signature		 	(SEAL)
Date		Inventor Signature		 	(SEAL)
Date		Inventor Signature		 	(SEAL)
Date		Investor Signature		 	(SEAL)
Date		Inventor Signature	. <u></u>	 	(SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date	 Witness
Date	 Wituess