504556234 09/20/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4602944

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KOTA NODA	09/12/2017
TAKEMA ADACHI	08/25/2017

RECEIVING PARTY DATA

Name:	IBIDEN CO., LTD.		
Street Address:	1, KANDACHO 2-CHOME, OGAKI		
City:	GIFU		
State/Country:	JAPAN		
Postal Code:	503-8604		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15211332

CORRESPONDENCE DATA

Fax Number: (703)413-2220

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.

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Email: sfazzone@oblon.com

Correspondent Name: OBLON, ET AL.

Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	473148US
NAME OF SUBMITTER:	SACHIE FAZZONE
SIGNATURE:	/Sachie Fazzone/
DATE SIGNED:	09/20/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2

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PATENT 504556234 REEL: 043638 FRAME: 0577

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention	INTERPOSER AND CIRCUIT SUBSTRATE
As the below named	d inventor, I hereby declare that:
This declaration [The attached application, or
is directed to:	United States application or PCT international application number 15/211,332 filed on July 15, 2016
The above-identifie	d application was made or authorized to be made by me.
I believe that I am t	he original inventor or an original joint inventor of a claimed invention in the application.
	DEN CO., LTD.
Japan, is desirous	I to as "ASSIGNEE") having places of business at: 1, Kandacho 2-chome, Ogaki, Oifu 503-8604 of acquiring the entire right, title and interest in and to said invention and in and to any Letters granted therefore in the United States and its territorial possessions and in any and all foreign
acknowledged, and said ASSIGNEE, the and in all foreign co- other relevant Inter- interest in and to as	FORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby for other good and valuable consideration, I, by these presents do sell, assign and transfer unto the full and exclusive right to the said invention in the United States and its territorial possessions countries (including the right to claim priority under the terms of the International Convention and national Treaties and Arrangements from the aforesaid application) and the entire right, title and my and all Letters Patent which may be granted therefor in the United States and its territorial any and all foreign countries and in and to any and all divisions, reissues, continuations, newals thereof.
any and all foreign assignee of my enti- (his) successors and	ze and request the Patent Office Officials in the United States and its territorial possessions and countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the re right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its I assigns, to the full end of the term for which said Letters Patent may be granted, as fully and would have been held by me had this Assignment and sale not been made.
respecting said inv continuation, substituall of said Letters I possible to aid said	that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me vention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, tute, renewal and reissue applications, execute all necessary assignment papers to cause any and Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said ited States and its territorial possessions and in any and all foreign countries.
	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ment of not more than five (5) years, or both.
LEGAL NAME OF	INVENTOR
Inventor: Kota NC	DDA Date: 12 - Sep - 26/7

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET

ALEXANDRIA, VIRGINIA 22314

PATENT REEL: 043638 FRAME: 0578

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention	INTERPOSER AND CIRC	CUIT SUBSTRATE	
	ed inventor, I hereby declare that		
This declaration	The attached application, or		
is directed to:	United States application or P filed on July 15, 2016	PCT international application number 15/21	1,332
The above-identific	ed application was made or auth	orized to be made by me.	
I believe that I am	the original inventor or an origir	nal joint inventor of a claimed invention in th	e application.
WHEREAS, IBI	DEN CO., LTD.		
Japan, is desirous	of acquiring the entire right, til	laces of business at: 1, Kandacho 2-chome, the and interest in and to said invention and ad States and its territorial possessions and its	in and to any Letters
acknowledged, and said ASSIGNEE, t and in all foreign o other relevant Inter interest in and to a	I for other good and valuable on the full and exclusive right to the countries (including the right to e mational Treaties and Arrangers and all Letters Patent which any and all foreign countrie	sum of FIVE DOLLARS (\$5.00), the rece onsideration, I, by these presents do sell, as: e said invention in the United States and its claim priority under the terms of the Internationents from the aforesaid application) and the sh may be granted therefor in the United St and in and to any and all divisions, re	sign and transfer unto territorial possessions tional Convention and e entire right, title and ates and its territorial
any and all foreigr assignee of my ent (his) successors an	or countries to issue any and all ire right, title and interest in and d assigns, to the full end of the	be Officials in the United States and its terri- of said Letters Patent, when granted, to said to the same, for the sole use and behoof or term for which said Letters Patent may be ad this Assignment and sale not been made.	id ASSIGNEE as the f said ASSIGNEE, its
respecting said in continuation, subst all of said Letters possible to aid said	vention, and testify in any le itute, renewal and reissue applic Patent to be issued to said AS I ASSIGNEE, its (his) successor	id ASSIGNEE or its (his) representatives ar egal proceeding, sign all lawful papers, escations, execute all necessary assignment pa SSIGNEE, make all rightful oaths, and, get ors and assigns, to obtain and enforce propessessions and in any and all foreign countries.	xecute all divisional, pers to cause any and nerally do everything per protection for said
	rledge that any willful false state ment of not more than five (5) y	ement made in this declaration is punishable years, or both.	under 18 U.S.C. 1001
LEGAL NAME OF	FINVENTOR		
Inventor: Takema	ı ADACHI	Date: 25 40	.,,
r			Z

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET

ALEXANDRIA, VIRGINIA 22314

RECORDED: 09/20/2017

PATENT REEL: 043638 FRAME: 0579