

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5022016

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HONG SHEN	01/07/2015
LIANG WANG	01/07/2015
GABRIEL Z. GUEVARA	01/07/2015
RAJESH KATKAR	01/07/2015
CYPRIAN EMEKA UZOH	01/08/2015
LAURA WILLS MIRKARIMI	01/22/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INVENSAS CORPORATION
<b>Street Address:</b>	3025 ORCHARD PARKWAY
<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95134
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16017010
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>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.</i>	
<b>Phone:</b>	4083216069
<b>Email:</b>	karen.perricone@xperi.com
<b>Correspondent Name:</b>	TESSERA INTELLECTUAL PROPERTIES CORP.
<b>Address Line 1:</b>	3025 ORCHARD PARKWAY
<b>Address Line 4:</b>	SAN JOSE, CALIFORNIA 95134
<b>ATTORNEY DOCKET NUMBER:</b>	IN001-0128-US-03
<b>NAME OF SUBMITTER:</b>	CHRISTOPHER W. LATTIN
<b>SIGNATURE:</b>	/Christopher W. Lattin/
<b>DATE SIGNED:</b>	06/25/2018
This document serves as an Oath/Declaration (37 CFR 1.63).	

**Total Attachments: 7**

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**COMBINED DECLARATION UNDER 37 CFR 1.63 AND ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, I,  
an ASSIGNOR named below,

Hong SHEN of Palo Alto, California, US  
Liang WANG of Milpitas, California, US  
Gabriel Z. GUEVARA of San Jose, California, US  
Rajesh KATKAR of San Jose, California, US  
Cyprian Emeka UZOH of San Jose, California, US  
Laura Wills MIRKARIMI of Sunol, California, US

hereby sell, assign and transfer to

ASSIGNEE: **INVENSAS CORPORATION**, a Delaware corporation having a place of  
business at 3025 Orchard Parkway, San Jose, CA 95134,

its successors, assigns and legal representatives, my entire right, title and interest throughout  
the world, including all rights to claim priority, in and to the invention(s) disclosed in:

- U.S. Patent Application executed on or about the date of this Assignment,
- U.S. Patent Application executed on \_\_\_\_\_, or
- U.S. Patent Application No.: 14/533,728, filed on November 5, 2014
- International Application No.: PCT/\_\_\_\_\_, filed on \_\_\_\_\_

**ENTITLED: SUBSTRATES AND METHODS OF MANUFACTURE**

and naming as

**INVENTOR(S): Hong SHEN, Liang WANG, Gabriel Z. GUEVARA,  
Rajesh KATKAR, Cyprian Emeka UZOH, and  
Laura Wills MIRKARIMI**

including without limitation, my entire right, title and interest in and to any and all United  
States and foreign applications (including any and all provisional, international, regional and  
foreign national applications) for said invention(s), including non-provisionals, divisions,  
continuations, continuations-in-part, renewals, substitutes and extensions thereof, and in and to  
any and all patents of every country or region that may be granted or have been granted for said  
invention(s), including any reissues and reexaminations thereof.

**OATH/DECLARATION**

This Assignment may also serve as an oath or declaration in accord with 37 C.F.R. § 1.63(e)  
and, as such, as an inventor executing below, I do hereby state that I believe I am the original  
inventor or an original joint inventor of an invention claimed in any above-identified U.S.  
Patent Application or International Application designating the United States and do hereby  
state that such application is and was made or authorized to be made by me. 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.

ASSIGNMENT - STATEMENT

I authorize ASSIGNEE to apply for patents of foreign countries for said invention(s), and to claim all rights of priority without further authorization from me.

I agree to execute any and all papers useful in connection with any and all U.S. and foreign applications (including international, regional, and foreign national applications), and generally to do everything possible to aid ASSIGNEE, its successors, assigns and nominees, at their request and reasonable expense, in obtaining and enforcing patents for said invention(s) in all countries.

I hereby covenant that no assignment, sale, license, agreement, or encumbrance has been or will be made or entered into that would conflict with this Assignment.

I authorize and request the Commissioner of Patents and Trademarks to issue any U.S. Letters Patent that may be granted for said invention(s) to ASSIGNEE, its successors or assigns.

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

Executed on 1/7/2015 by [Signature]  
Hong Shen

----- Notary Use Below -----

**ACKNOWLEDGMENT**

State of California )  
County of Santa Clara )

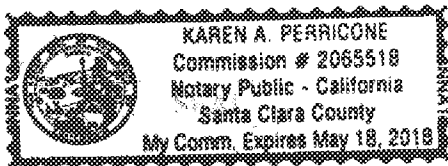
NOTARY

On Jan 7, 2015, before me, Karen A. Perricone, Notary Public,  
(Date) (Printed Name of Notary)

personally appeared Hong Shen  
(Printed Name of Inventor)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is/are~~ subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in ~~his/her/their~~ authorized capacity(ies), and that by ~~his/her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

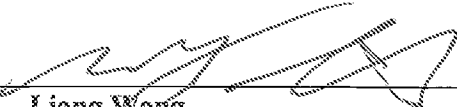


WITNESS my hand and official seal.

[Signature]  
Signature of Notary

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

Executed on 01/07/2018

by   
Liang Wang

----- Notary Use Below -----

**ACKNOWLEDGMENT**

State of California )  
County of Santa Clara )

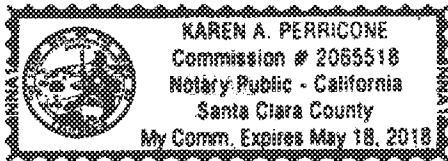
NOTARY

On Jan. 7, 2015, before me, Karen A. Perricone, Notary Public,  
(Date) (Printed Name of Notary)


personally appeared Liang Wang  
(Printed Name of Inventor)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is~~ subscribed to the within instrument and acknowledged to me that ~~he~~/she/they executed the same in ~~his~~/her/their authorized capacity(ies), and that by ~~his~~/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

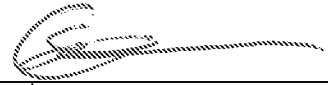
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.



WITNESS my hand and official seal.

  
Signature of Notary

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

Executed on 1/7/2015 by   
**Gabriel Z. Guevara**

----- Notary Use Below -----

**ACKNOWLEDGMENT**

State of California )  
County of Santa Clara )

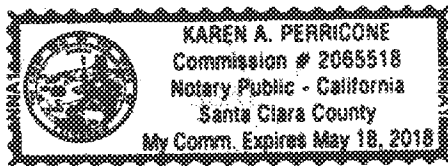
NOTARY

On JAN. 7, 2015, before me, Karen A. Perricone, Notary Public,  
(Date) (Printed Name of Notary)

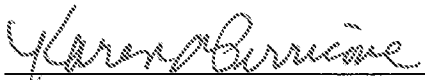
personally appeared Gabriel Z. Guevara,  
(Printed Name of Inventor)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is/are~~ subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in ~~his/her/their~~ authorized capacity(ies), and that by ~~his/her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.




WITNESS my hand and official seal.

  
Signature of Notary

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

Executed on 1/7/15

by   
Rajesh Katkar

----- Notary Use Below -----

**ACKNOWLEDGMENT**

State of California )  
County of Santa Clara )

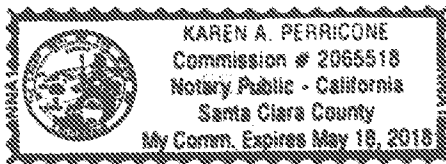
NOTARY

On Jan. 7, 2015, before me, Karen A. Perricone, Notary Public,  
(Date) (Printed Name of Notary)


personally appeared Rajesh Katkar  
(Printed Name of Inventor)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is/are~~ subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in ~~his/her/their~~ authorized capacity(ies), and that by ~~his/her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.



WITNESS my hand and official seal.

  
Signature of Notary

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

Executed on Jan 8, 2015 by Cyprian Emeka Uzoh  
Cyprian Emeka Uzoh

----- Notary Use Below -----

**ACKNOWLEDGMENT**

State of California )  
County of Santa Clara )

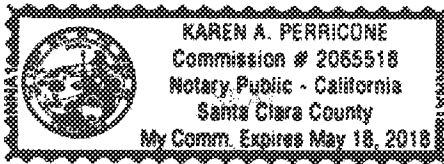
NOTARY

On Jan 8, 2015, before me, Karen A. Perricone, Notary Public,  
(Date) (Printed Name of Notary)

personally appeared Cyprian Emeka Uzoh  
(Printed Name of Inventor)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is/are~~ subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in ~~his/her/their~~ authorized capacity(ies), and that by ~~his/her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.



WITNESS my hand and official seal.

Karen Perricone  
Signature of Notary



A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

Executed on 1/22/2015 by *[Signature]*  
Laura Wills Mirkarimi

----- Notary Use Below -----

ACKNOWLEDGMENT

State of California )  
County of Santa Clara )

NOTARY

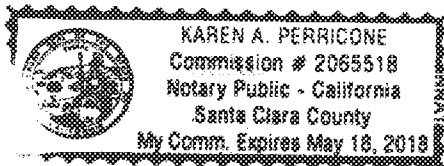
On Jan. 22, 2015, before me, Karen A. Perricone, Notary Public,  
(Date) (Printed Name of Notary)

personally appeared Laura Wills Mirkarimi  
(Printed Name of Inventor)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is/are~~ subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in ~~his/her/their~~ authorized capacity(ies), and that ~~by his/her/their~~ signature(s) on the instrument the person(s); or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



*Karen Perricone*  
Signature of Notary