

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3339248

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	CYPRIAN EMEKA UZOH	08/30/2012
	CHARLES G. WOYCHIK	08/30/2012
	TERRENCE CASKEY	09/05/2012
	KISHOR V. DESAI	08/31/2012
	HUAILIANG WEI	09/08/2012
	CRAIG MITCHELL	09/05/2012
	BELGACEM HABA	08/30/2012
<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>	14643264	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(214)200-0853	
<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>	214-651-5000	
<b>Email:</b>	ipdocketing@haynesboone.com	
<b>Correspondent Name:</b>	HAYNES AND BOONE, LLP - IP SECTION	
<b>Address Line 1:</b>	2323 VICTORY AVENUE	
<b>Address Line 2:</b>	SUITE 700	
<b>Address Line 4:</b>	DALLAS, TEXAS 75219	
<b>ATTORNEY DOCKET NUMBER:</b>	48259.183US02	
<b>NAME OF SUBMITTER:</b>	ERIKA WONG	
<b>SIGNATURE:</b>	/Erika Wong/	
<b>DATE SIGNED:</b>	05/05/2015	

PATENT

**Total Attachments: 7**

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## ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

TIPI 3.0-741

Whereas, I, Emeka Cyprian Uzoh <sup>CGA 8/20/2012</sup> of  
c/o Invensas Corporation; 3025 Orchard Parkway; San Jose, California 95134

hereafter referred to as assignor, have with others invented certain new and useful improvements in

REDUCED STRESS TSV AND INTERPOSER STRUCTURES

- ☒ for which an application for a United States Letters Patent was filed on June 8, 2012  
 Application Number 13/492,064
- ☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_  
 and \_\_\_\_\_

Whereas, Invensas Corporation

a corporation of Delaware herein referred to as "assignee" whose mailing address is

3025 Orchard Parkway; San Jose, California 95134

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

Aug 30, 2012

(Date)

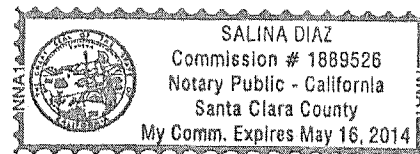
Cyprian E. Uzoh

(Signature)

## NOTARY SECTION

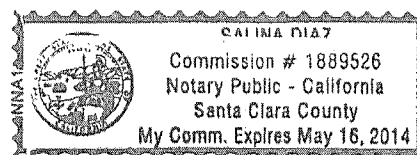
State of California  
 County of Santa Clara

On 8/30/2012 before me, Salina Diaz, notary Public, personally appeared Cyprian E. Uzoh, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person 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 Salina Diaz (Seal)  
 Signature of Notary Public

**PATENT**  
**REEL: 035564 FRAME: 0472**

## ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

TIPI 3.0-741

Whereas, I, Charles G. Woychik of  
c/o Invensas Corporation; 3025 Orchard Parkway; San Jose, California 95134

hereafter referred to as assignor, have with others invented certain new and useful improvements in

REDUCED STRESS TSV AND INTERPOSER STRUCTURES

☒ for which an application for a United States Letters Patent was filed on June 8, 2012

Application Number 13/492,064

☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_,  
 and

Whereas, Invensas Corporation

a corporation of Delaware herein referred to as "assignee" whose mailing address is

3025 Orchard Parkway; San Jose, California 95134

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

8/30/2012

(Date)

Charles G. Woychik

(Signature)

## NOTARY SECTION

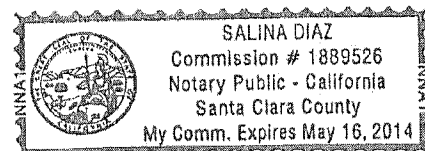
State of California  
 County of Santa Clara

On 8/30/2012 before me, Salina Diaz, notary Public, personally appeared Charles G. Woychik, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person 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 Salina Diaz (Seal)  
 Signature of Notary Public



**PATENT**

**REEL: 035564 FRAME: 0473**

## ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

TIPI 3.0-741

Whereas, I, Terrence Caskey of  
c/o Invensas Corporation; 3025 Orchard Parkway; San Jose, California 95134

hereafter referred to as assignor, have with others invented certain new and useful improvements in

REDUCED STRESS TSV AND INTERPOSER STRUCTURES

☒ for which an application for a United States Letters Patent was filed on June 8, 2012

Application Number 13/492,064

☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_,  
 and

Whereas, Invensas Corporation

a corporation of Delaware herein referred to as "assignee" whose mailing address is

3025 Orchard Parkway; San Jose, California 95134

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

7  
X 9/5/2012

(Date)

Terrence Caskey

(Signature)

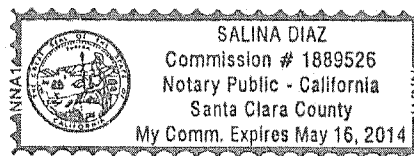
## NOTARY SECTION

State of California  
 County of Santa Clara

On 9/5/2012 before me, Salina Diaz, notary Public, personally appeared Terrence Caskey, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person 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

Salina Diaz (Seal)  
 Signature of Notary Public

PATENT

REEL: 035564 FRAME: 0474

## ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

TIPI 3.0-741

Whereas, I, Kishor V. Desai of  
1828 Cameron Hills Court, Fremont, California 94539

hereafter referred to as assignor, have with others invented certain new and useful improvements in

REDUCED STRESS TSV AND INTERPOSER STRUCTURES

☒ for which an application for a United States Letters Patent was filed on June 8, 2012

Application Number 13/492,064

☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_  
 and \_\_\_\_\_

Whereas, Invensas Corporation

a corporation of Delaware herein referred to as "assignee" whose mailing address is

3025 Orchard Parkway, San Jose, California 95134

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

8/31/2012

(Date)

[Signature]

(Signature)

## NOTARY SECTION

State of California  
 County of Santa Clara

On 8/31/2012 before me, Salina Diaz, notary Public, personally appeared Kishor V. Desai, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

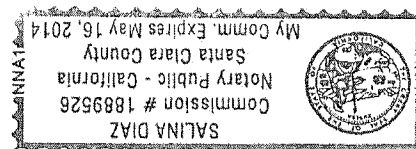
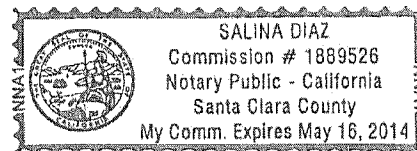
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Signature of Notary Public

(Seal)



PATENT

REEL: 035564 FRAME: 0475

## ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

TIPI 3.0-741

Whereas, I, Huailiang Wei of  
2036 Londonderry Drive; Allen, Texas 75013

hereafter referred to as assignor, have with others invented certain new and useful improvements in

REDUCED STRESS TSV AND INTERPOSER STRUCTURES

☒ for which an application for a United States Letters Patent was filed on June 8, 2012

Application Number 13/492,064

☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_,  
 and

Whereas, Invensas Corporation

a corporation of Delaware herein referred to as "assignee" whose mailing address is

3025 Orchard Parkway; San Jose, California 95134

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

9/8/2012

(Date)

Huailiang Wei

(Signature)

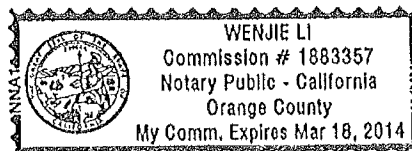
State of California, ss:  
 County of Orange

On this 8th day of September, 2012 before me personally came the above-named Huailiang Wei, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.

[Signature]  
 (Notary Public)

☒ \*Total of 7 forms are submitted.

1.D-528:



## ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

TIPI 3.0-741

Whereas, I, Craig Mitchell of  
c/o Invensas Corporation; 3025 Orchard Parkway; San Jose, California 95134

hereafter referred to as assignor, have with others invented certain new and useful improvements in

REDUCED STRESS TSV AND INTERPOSER STRUCTURES

☒ for which an application for a United States Letters Patent was filed on June 8, 2012

Application Number 13/492,064

☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_,  
 and

Whereas, Invensas Corporation

a corporation of Delaware herein referred to as "assignee" whose mailing address is

3025 Orchard Parkway; San Jose, California 95134

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

9/5/12

(Date)

Craig Mitchell

(Signature)

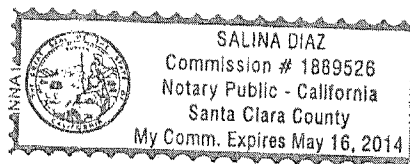
## NOTARY SECTION

State of California  
 County of Santa Clara

On 9/5/2012 before me, Salina Diaz, notary Public, personally appeared Craig Mitchell, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person 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] (Seal)  
 Signature of Notary Public

**PATENT**  
**REEL: 035564 FRAME: 0477**



## ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

TIPI 3.0-741

Whereas, I, Belgacem Haba of  
c/o Invensas Corporation; 3025 Orchard Parkway; San Jose, California 95134

hereafter referred to as assignor, have with others invented certain new and useful improvements in

REDUCED STRESS TSV AND INTERPOSER STRUCTURES

☒ for which an application for a United States Letters Patent was filed on June 8, 2012

Application Number 13/492,064

☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_  
 and

Whereas, Invensas Corporation

a corporation of Delaware herein referred to as "assignee" whose mailing address is

3025 Orchard Parkway; San Jose, California 95134

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

8/30/2012

(Date)

NOTARY SECTION

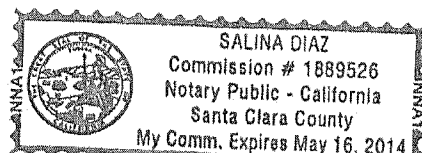
State of California  
 County of Santa Clara

On 8/30/2012 before me, Salina Diaz, notary Public, personally appeared Belgacem Haba who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person 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 Salina Diaz (Seal)  
 Signature of Notary Public



PATENT

RECORDED: 05/05/2015

REEL: 035564 FRAME: 0478