

Form PTO-1595 (Rev. 03-11)  
OMB No. 0651-0027 (exp. 03/31/2012)U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies):**Richard Dewitt Crisp (04/02/2012), Wael Zohni  
(04/02/2012), Belgacem Haba (04/02/2012), and  
Frank Lambrecht (04/02/2012)Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**2. Name and address of receiving party(ies)**Name: Invensas Corporation

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

2702 Orchard Parkway

City: San JoseState: CaliforniaCountry: United States of America Zip: 95134Additional name(s) & address(es) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**Execution Date(s): In parentheses after inventor name☒ Assignment ☐ Merger ☐ Change of Name☐ Security Agreement ☐ Joint Research Agreement☐ Government Interest Assignment☐ Executive Order 9424, Confirmatory License☐ Other \_\_\_\_\_**4. Application or patent number(s):**

A. Patent Application No.(s)

13/439,286

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Daryl K. Neff  
LERNER, DAVID, LITTENBERG,  
KRUMHOLZ & MENTLIK, LLPInternal Address: Atty. Dkt.: TIPI 3.12-688AStreet Address: 600 South Avenue WestCity: WestfieldState: NJ Zip: 07090Phone Number: 908-654-5000Fax Number: 908-654-7866Email Address: ataylor@ldlkm.com**6. Total number of applications and patents involved:**1**7. Total fee (37 CFR 1.21(h) & 3.41) \$** 40.00☒ Authorized to be charged to deposit account☐ Enclosed☐ None required (government interest not affecting title)**8. Payment Information**Deposit Account Number 12-1095Authorized User Name Daryl K. Neff**9. Signature:**

Signature

April 11, 2012

Date

Daryl K. Neff - 38,253

Name of Person Signing

Total number of pages including cover  
sheet, attachments, and documents:5

former PTO/SB/15 (8-05) Modified LDLKM

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) <b>TIPI 3.12-686 A</b>
------------------------------------------	----------------------------------------------------

Whereas, I, Richard Dewitt Crisp of c/o Invenas Corporation, 2702 Orchard Parkway, San Jose, California 95134

hereafter referred to as assignor, have with others invented certain new and useful improvements in **STUB MINIMIZATION FOR ASSEMBLIES WITHOUT WIREBONDS TO PACKAGE SUBSTRATE**

☒ for which an application for a United States Letters Patent was filed on April 4, 2012  
Application Number 13/439,286

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

Whereas, Invenas Corporation  
a corporation of Delaware herein referred to as "assignee" whose mailing address is 2702 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 there from 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.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application Nos. 61/542,488, 61/542,495 and 61/542,553, all filed October 3, 2011, and United States Provisional Application No. 61/600,361, filed February 17, 2012, and in the inventions disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application Nos. 61/542,488, 61/542,495, 61/542,553, and 61/600,361 pursuant to any law or treaty in the countries of the world.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known. April 7, 2012 \_\_\_\_\_  
(Date) (Signature)


State of California ) SS:  
County of Santa Clara )

On 4/2/2012 before me, Salina Diaz, Notary Public  
personally appeared Richard Dewitt Crisp, 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.

Salina Diaz  
(Notary Public)



**SALINA DIAZ**  
Commission # 1889526  
Notary Public - California  
Santa Clara County  
My Comm. Expires May 16, 2014

☒ \*Total of 4 forms are submitted.

former PTO/SB/15 (B-00) Modified LDL&amp;M

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) TPI 3.12-688 A
------------------------------------------	--------------------------------------------

Whereas, I, Wael Zohni of c/o Invensas Corporation: 2702 Orchard Parkway: San Jose, California 95134

hereafter referred to as assignor, have with others invented certain new and useful improvements in STUB MINIMIZATION FOR ASSEMBLIES WITHOUT WIREBONDS TO PACKAGE SUBSTRATE

☒ for which an application for a United States Letters Patent was filed on April 4, 2012  
 Application Number 13/439,286

☐ 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  
2702 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 there from 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.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application Nos. 61/542,488, 61/542,495 and 61/542,553, all filed October 3, 2011, and United States Provisional Application No. 61/600,361, filed February 17, 2012, and in the inventions disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application Nos. 61/542,488, 61/542,495, 61/542,553, and 61/600,361 pursuant to any law or treaty in the countries of the world.

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


4/2/12 (Date)                      Wael Zohni (Signature)

State of California ) SS:  
 County of Santa Clara )

On 4/2/2012 before me, Salina Diaz, Notary Public  
 personally appeared Wael Zohni, 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.


 SALINA DIAZ  
 Commission # 1889526  
 Notary Public - California  
 (NOTARY) Santa Clara County  
 My Comm. Expires May 16, 2014

☒ \*Total of 4 forms are submitted.

former PTO/SB/15 (8-00) Modified LDLKM

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) <b>TIP1 3.12-688 A</b>
------------------------------------------	----------------------------------------------------

Whereas, I, Belgacem Haba of c/o Invenas Corporation, 2702 Orchard Parkway, San Jose, California 95134 hereafter referred to as assignor, have with others invented certain new and useful improvements in **STUB MINIMIZATION FOR ASSEMBLIES WITHOUT WIREBONDS TO PACKAGE SUBSTRATE**

☒ for which an application for a United States Letters Patent was filed on April 4, 2012  
 Application Number 13/439,286

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

Whereas, Invenas Corporation a corporation of Delaware herein referred to as "assignee" whose mailing address is 2702 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.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application Nos. 61/542,488, 61/542,495 and 61/542,553, all filed October 3, 2011, and United States Provisional Application No. 61/600,361, filed February 17, 2012, and in the inventions disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application Nos. 61/542,488, 61/542,495, 61/542,553, and 61/600,361 pursuant to any law or treaty in the countries of the world.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known 4/2/2012 (Date) Belgacem Haba (Signature)

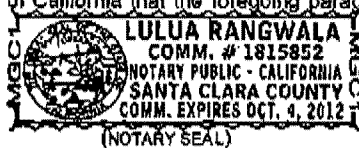
State of California ) SS:  
 County of Santa Clara )

On April 2, 2012 before me, Lulua Rangwala 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/~~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.

Lulua Rangwala  
 (Notary Public)



☒ \*Total of 4 forms are submitted.

<h2 style="margin: 0;">ASSIGNMENT OF UTILITY APPLICATION</h2>	(former PTO/SB/15 (8-00) Modified LEXIP) <b>Docket Number (Optional)</b> TIPI 3.12-688 A
---------------------------------------------------------------	------------------------------------------------------------------------------------------------

Whereas, I, Frank Lambrecht of c/o Invensas Corporation; 2702 Orchard Parkway; San Jose, California 95134

hereafter referred to as assignor, have with others invented certain new and useful improvements in **STUB MINIMIZATION FOR ASSEMBLIES WITHOUT WIREBONDS TO PACKAGE SUBSTRATE**

☒ for which an application for a United States Letters Patent was filed on April 4, 2012  
 Application Number 13/439,286

☐ 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 2702 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 there from 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.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application Nos. 61/542,488, 61/542,495 and 61/542,553, all filed October 3, 2011, and United States Provisional Application No. 61/600,361, filed February 17, 2012, and in the inventions disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application Nos. 61/542,488, 61/542,495, 61/542,553, and 61/600,361 pursuant to any law or treaty in the countries of the world.

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

4-2-2012 (Date) [Signature] (Signature)

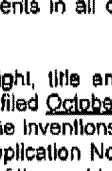
State of California ) SS:  
 County of Santa Clara )

On 4/2/2012 before me, Salina Diaz, Notary Public  
 personally appeared Frank Lambrecht, 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]  
 (Notary Public)



**SALINA DIAZ**  
 Commission # 1889526  
 Notary Public - California  
 Santa Clara County  
 My Comm. Expires May 16, 2014

☒ \*Total of 4 forms are submitted.