Form PTO-1595 (Rev. 03-11) OMB No. 0651-0027 (exp. 03/31/2012)	U.S. DEPARTMENT OF COMMERC! United States Palent and Trademark Offic	
PATENTS ONLY		
Name of conveying party(les):	2. Name and address of receiving party(les)	
Richard Dewitt Crisp (04/02/2012), Wael Zohni (04/02/2012), Belgacem Haba (04/02/2012), and Frank Lambrecht (04/02/2012)	Name: Invensas Corporation Internal Address:	
Additional name(s) of conveying party(ies) attached? Yes X No	Street Address:	
3. Nature of conveyance/Execution Date(e):		
Execution Date(s): In parentheses after Inventor name X Assignment Merger Change of Name	2702 Orchard Parkway	
Security Agreement Joint Research Agreement	City: San Jose	
Government Interest Assignment	State: California	
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 95134	
Other	Additional name(s) & address(es) Yes X No attached?	
13/439,286 Additional numbers attached?	Yes X No	
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:	
Name: Daryl K. Neff LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00	
Internal Address: Atty. Dkt.: TIPI 3.12-688A		
Street Address: 600 South Avenue West	Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)	
City: Westfield	8. Payment Information	
State: NJ Zip: 07090		
Phone Number: 908-654-5000		
Fax Number: 908-654-7866	Deposit Account Number 12-1095 Authorized User Name Darvi K Neff	
Email Address: ataylor@ldlkm.com	Authorized User Name Daryl K. Neff	
9. Signature:	April 11, 2012	
Signature	Date	
Daryl K. Neff - 38,253	Total number of pages including cover 5	
Name of Person Signing	sheet, attachments, and documents:	

1740448

PATENT REEL: 028036 FRAME: 0641

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	former PTO/SB/15 (8-00) Modified LDLK&M		
Docket Number (O			
ASSIGNMENT OF UTILITY APPLICATION	TIPI 3.12-686 A		
Whereas, I, Richard Dewitt Crisp of			
c/o Invensas Corporation: 2702 Orchard Parkway: San Jose			
hereafter referred to as assignor, have with others invented certain new and useful improvements in STUB MINIMIZATION FOR ASSEMBLIES WITHOUT WIREBONDS TO PACKAGE SUBSTRATE			
X for which an application for a United States Letters Palent w Application Number 13/439, 296	ras filed on April 4, 2012		
	a overeign by me as		
for which an application for a United States Letters Patent wa and	s executed by the on		
Whereas, Inventas Corporation	The state of the		
a corporation of <u>Delaware</u> herein referred to as "assignee" whose ma 2702 Orchard Parkway; San Jose, California 95134	niling address is		
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 harein, 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 Latters Patent on said improvements and ell 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 pall by said assignee.			
I. as assigner, 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 61/542,563, all filed October 3, 2011, and United States Provisional Application No. 61/500,361, 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 dead the fitting date and application number of said application when known.			
Spricerion Miles Montes 2012 15			
(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 Rejaha executed the same in Risher authorized capacity, and that by first 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 Mand and official seal.	SALINA DIAZ Commission # 1889526		
(Notary Public)	Notary Public - California S Recta Place Agunty My Comm. Expires May 16, 2014		
x *Total of 4 forms are submitted.	The second secon		

1605531-1

PATENT REEL: 028036 FRAME: 0642

	former PTO/SB/15 (B-00) Modified LOLKAN		
	Docket Number (Optional)		
ASSIGNMENT OF UTILITY APPLICATION	TIPI 3.12-688 A		
Whereas, I, Wael Zohni	of		
c/o Invensas Corporation: 2702 Orchard Parkway: San Jose, (
hereafter referred to as assignor, have with others invented certain new STUB MINIMIZATION FOR ASSEMBLIES WITHOUT WIREBON	DS TO PACKAGE SUBSTRATE		
for which an application for a United States Letters Patent wa Application Number 13/439,286	s filed on April 4, 2012		
for which an application for a United States Letters Patent was and	executed by me on ,		
Whereas, Invensas Corporation			
a corporation of <u>Delaware</u> herein referred to as "assignee" whose mall 2702 Orchard Parkway; San Jose, California 95134	ing address is		
Is desirous of acquiring the entire right, title and interest in the same;			
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 petent 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 petents on said improvements or resulting there from to said assignee and requested to issue all petents 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, here and assigns do hereby agree and coverant without further remuneration, to execute and deliver all original, divisional, continuation, relasue 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. 61/600,381, 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 application when known.	filing date and application number of said		
4/2/12	Walton		
(Date)	⊃(Signature)		
State of California) \$8;			
County of South Clara)			
77.557.55.55.55.55.55.55.55.55.55.55.55.	Salina Diaz, Notary Public		
personally appeared <u>Wa'el Zohnl</u> , 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 inclusted authorized capacity, and that by figher 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 true and correct.	of California that the foregoing paragraph is		
WITNESS my hang and official seal.	SALINA DIAZ		
A July July 1	Gommission # 1869526 Notary Public - California		
(Notary Public)	(NOTARRIGEAlaya County My Comm. Expires May 16, 2014		
x 'Total of 4 forms are submitted.			

1606531-7

former PTO/SB/15 [8-00] Modified LDLK&M

	Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	TIPI 3.12-688 A
Whereas. I, Belgacem Haba	of
c/o Invensas Corporation: 2702 Orchard Parkway: San Jose.	California 95134
hereafter referred to as assignor, have with others invented certain ne <u>STUB MINIMIZATION FOR ASSEMBLIES WITHOUT WIREBON</u>	
x for which an application for a United States Letters Patent wa	as filed on April 4, 2012
Application Number 13/439,286	
for which an application for a United States Letters Patent was and	executed by me on ,
Whereas, Invensas Corporation	
a corporation of <u>Delaware</u> hereIn referred to as "assignee" whose main 2702 Orchard Parkway; San Jose, California 95134	ling address is
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
and to said invention and the aforesald utility patent application continuation-in-part, substitute or reissue applications and patents a States of America and all other countries, for said invention, including for said invention claiming priority or benefit of the aforesaid utility a including the right to claim such priority or benefit and the Commission authorized and requested to Issue all patents on said improvement herein, as assignee of the entire interest therein; and the undersignee and assigns do hereby agree and covenant without further remundivisional, continuation, reissue and other applications for Lette assignments thereof to said assignee or its assigns, to communicate facts known to the undersigned respecting said improvements, whenever the patent proceedings in which any of said applications or patent papers, make all rightful oaths, and to do generally everything necessand nominees to obtain patent protection for said improvements in applications to be borne and paid by said assignee.	applied for or granted therefor in the United without limitation all applications and patents opplication pursuant to any law or treaty, and sloner of Patents and Trademarks is hereby its or resulting there from to said assignee of for me and my legal representatives, heirs eration, to execute and deliver all original, its Patent on said improvements and all se to said assignee or its representatives all over requested, to testify in any interferences into may become involved, to sign all lawful sary to aid assignee, its successors, assigne
i, as assignor, hereby assign to said assignee all of my right, titl Application Nos. 61/542,488, 61/542,495 and 61/542,553, all filed October Application No. 61/600,361, filed February 17, 2012, and in the Inventorial Including the right to claim priority or benefit of said Application and 61/600,361 pursuant to any law or treaty in the countries of the western to the countries of the western as the countries of the countries of the western as the countries of the countries of the western as the countries of t	tober 3, 2011, and United States Provisional flons disclosed thereto in all countries of the n Nos, 61/542,488, 61/542,495, 61/542,553,
And I do hereby authorize my attorneys to insert on this deed the application when known.	filing date and application number of said
(Date)	Ad River
State of California) \$8:	A CA LACE ((dignature)
County of Santa Clasa)	1
on April 2, 2012 before me. Luli	a Rangwala Notary Public
personally appeared <u>Belgacem Haba</u> , who proved to me on the ba whose name is subscribed to the within instrument and acknowledg his/ber authorized capacity, and that by his/her signature on the instrument, which the person acted, executed the instrument.	als of satisfactory evidence to be the person ad to me that he/sive executed the same in
I certify under PENALTY OF PERJURY under the laws of the State true and correct.	of California that the foregoing paragraph is
WITNESS my hand and official seal.	COMM. # 1815852
Sele Rayree	SANTA CLARA COUNTY C
(Notary Public)	(NOTARY SEAL)
x *Total of 4 forms are submitted.	

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	former PTO/S8/15 (8-00) Medified LDLX84		
	Docket Number (Optional)		
ASSIGNMENT OF UTILITY APPLICATION	TIPI 3.12-688 A		
Whereas, I, Frank Lambrecht of			
c/o Invensas Corporation: 2702 Orchard Parkway: San Jose, (
hereafter referred to as assignor, have with others invented certain nev STUB MINIMIZATION FOR ASSEMBLIES WITHOUT WIREBON	DS TO PACKAGE SUBSTRATE		
x for which an application for a United States Letters Patent wa Application Number 13/439,286	s filed on April 4, 2012		
or which an application for a United States Letters Patent was	executed by me on ,		
Whereas, Invensas Corporation			
a corporation of Delaware herein referred to as "assignee" whose mall	ing address ls		
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 eald invention and the atoresald utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reiesue 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, relesue and other applications for Latters 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 lewful 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 application when known.	filing date and application number of said		
4-2-2012			
(Date)	(Signature)		
State of California) \$5: County of Santa Clara)			
On 4/2-/20/2 before me, setting their Retary 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 have executed the same in			
in the person acted, executed the instrument.			
I certify under PENALTY OF PERJURY under the laws of the State true and correct.			
WITNESS my hand and official seal	GALINA DIAZ Commission # 1889526		
(Notary Public)	Notary Public - California		
x *Total of 4 forms are submitted.			

1605531-1

RECORDED: 04/11/2012

PATENT REEL: 028036 FRAME: 0645