11/10/2016 504090775

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4137443

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| RICHARD DEWITT CRISP | 04/02/2012 |
| WAEL ZOHNI | 04/02/2012 |
| BELGACEM HABA | 04/02/2012 |
| FRANK LAMBRECHT | 04/02/2012 |

RECEIVING PARTY DATA

| Name: | INVENSAS CORPORATION |
|-----------------|----------------------|
| Street Address: | 3025 ORCHARD PARKWAY |
| City: | SAN JOSE |
| State/Country: | CALIFORNIA |
| Postal Code: | 95134 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15348238 |

CORRESPONDENCE DATA

Fax Number: (908)654-0415

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.

(908) 518-6356 Phone:

assignment@lernerdavid.com Email:

Correspondent Name: LDLK&M

Address Line 1: 600 SOUTH AVENUE WEST

Address Line 4: WESTFIELD, NEW JERSEY 07090

| ATTORNEY DOCKET NUMBER: | TIPI 3.0-752 C CON CON CO |
|-------------------------|---------------------------|
| NAME OF SUBMITTER: | MELINDA C. CORMIER |
| SIGNATURE: | /Melinda C. Cormier/ |
| DATE SIGNED: | 11/10/2016 |

Total Attachments: 4

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> **PATENT REEL: 040278 FRAME: 0720** 504090775

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PATENT REEL: 040278 FRAME: 0721

former PTO/SB/15 (8-00) Modified LDLK&M

| Docket Number (Optional) | | |
|---|---|--|
| ASSIGNMENT OF UTILITY APPLICATION TIPI 3.12-752 C | | |
| Whereas, I, Selgacem Haba c/o Invensas Corporation; 2702 Orchard Parkway; San Jose, California 95134 | | |
| hereafter referred to as assignor, have with others invented certain new and STUB MINIMIZATION USING DUPLICATE SETS OF TERMINALS FO WITHOUT WINDOWS | | |
| X for which an application for a United States Letters Patent was filed on April 5, 2012 | | |
| Application Number 13/440,280 | | |
| for which an application for a United States Letters Patent was exec and | cuted by me on , | |
| Whereas, Invensas Corporation | | |
| a corporation of <u>Delaware</u> herein referred to as "assignee" whose mailing at <u>2702 Orchard Parkway</u> ; San Jose, California 95134 | ddress 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 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 ald 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 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 | | |
| And I do hereby authorize my attorneys to insert on this deed the filling da when known. | | |
| | T.A. | |
| 4/2/2012 | W. W. | |
| 4/2/2012 (Date) | (Signature) | |
| State of California) SS: | (J. G. (J. G. | |
| County of Santa Clara) | | |
| State of California) SS: County of Santa Clara) On April 2, 2012 , before me, Lulius Ro appeared Belgacem Haba, who proved to me on the basis of satisfactor subscribed to the within instrument and acknowledged to me that hele capacity, and that by his/hex-signature on the instrument the person, or the executed the instrument. | executed the same in his/Mer authorized | |
| I certify under PENALTY OF PERJURY under the laws of the State of Calif | ornia that the foregoing paragraph is true and | |
| WITNESS my hand and official seal. | LULUA RANGWALA L | |
| Waln Raymel (Notary Public) | SANTA CLARA COUNTY O COMM. EXPIRES OCT. 4, 2012 | |
| (Notary Public) | (NOTARY SEAL) | |

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*Total of

forms are submitted.

former PTO/S8/16 (8-00) Modified LOLK&M Docket Number (Optional)

| ASSIGNMENT OF UTILITY APPLICATION | TIDLO 40 SEO C | |
|--|---|--|
| TIPI 3.12-752 C | | |
| Whereas, I, Richard Dewitt Crisp | | |
| 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 USING DUPLICATE SETS OF TERMINALS FOR WIREBOND ASSEMBLIES WITHOUT WINDOWS | | |
| x for which an application for a United States Letters Patent was filed on April 5, 2012 | | |
| Application Number 13/440,280 | | |
| for which an application for a United States Letters Patent was executed and | cuted by me on, | |
| Whereas, Invensas Corporation | | |
| a corporation of <u>Delaware</u> 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; | | |
| said assignee my entire right, title and interest for the United States of A invention and the aforesaid utility patent application and all original, substitute or reissue applications and patents applied for or granted therefor countries, for said invention, including without limitation all applications and benefit of the aforesaid utility application pursuant to any law or treaty, as benefit and the Commissioner of Patents and Trademarks is hereby authorismprovements or resulting there from to said assignee herein, as assigneering to me and my legal representatives, helrs and assigns do remuneration, to execute and deliver all original, divisional, continuation, re on said improvements and all assignments thereof to said assignee or its a representatives all facts known to the undersigned respecting said improvementerierences or other legal proceedings in which any of said applications lawful papers, make all rightful oaths, and to do generally everything nece and nominees to obtain patent protection for said improvements in applications to be borne and paid by said assignee. | divisional, continuation, continuation-in-part, or in the United States of America and all other dipatents for said invention claiming priority or not including the right to claim such priority or ized and requested to issue all patents on said ignee of the entire interest therein; and the hereby agree and covenant without further issue and other applications for Letters Patent seigns, to communicate to said assignee or its ements, whenever requested, to testify in any or patents may become involved, to sign all ssary to aid assignee, its successors, assigns all countries, the expenses incident to said | |
| 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. 61/600,527, 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 61/600,527 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 dawhen known. | ate and application number of said application | |
| 100022,2012 1- | | |
| (Date) | (Signature) | |
| State of California) SS: County of SANTA CLARA) | ` | |
| On AN 2,2012 before me, (all A Per Love Above result) personally appeared Richard Dewilt 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, of 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 an correct. | | |
| WITNESS my hand and official seal. | KAREN A. PERRICONE Gommission # 1690143 Notary Public - California | |
| Notary Public - California | | |
| Santa Clara County (Notary Public) (Notary Public) Santa Clara County (Notary Public) | | |
| x *Total of 4 forms are submitted. | | |

| | Docket Number (Optional) | |
|--|--|--|
| ASSIGNMENT OF UTILITY APPLICATION | TIP1 3.12-752.C | |
| Whereas, I, Frank Lambrecht | of | |
| c/o Invensas Corporation; 2702 Orchard Parkway; San Jose, California 96 | 334 | |
| hereafter referred to as assignor, have with others invented certain new and STUB MINIMIZATION USING DUPLICATE SETS OF TERMINALS FOR WITHOUT WINDOWS | | |
| x for which an application for a United States Letters Patent was file | d on April 5, 2012 | |
| Application Number 13/440,280 | | |
| for which an application for a United States Letters Patent was executed and | ruted by me on | |
| Whereas, Invensas Corporation | | |
| a corporation of <u>Delaware</u> herein referred to as "assignee" whose mailing a | ddress 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 whereof is acknowledged, and other good and valuable consideration, I as said assignee my entire right, title and interest for the United States of A invention and the aforesaid utility patent application and all original, substitute or reissue applications and patents applied for or granted therefor countries, for said invention, including without limitation all applications and benefit of the aforesaid utility application pursuant to any law or treaty, an benefit and the Commissioner of Patents and Trademarks is hereby authorising the commissioner of Patents and Trademarks is hereby authorising the commissioner of Patents and Trademarks is hereby authorising the commissioner of Patents and Trademarks is hereby authorising the commissioner of Patents and Trademarks is hereby authorising the commissioner of Patents and Trademarks is hereby authorising the commissioner of Patents and Trademarks in a commission of the commissioner of Patents and Trademarks in a commission of the | merica and all other countries in and to said divisional, continuation, continuation-in-part, r in the United States of America and all other I patents for said invention claiming priority or id including the right to claim such priority or zed and requested to issue all patents on said gnee of the entire interest therein; and the hereby agree and covenant without further issue and other applications for Letters Patent ssigns, to communicate to said assignee or its ements, whenever requested, to testify in any or patents may become involved, to sign all sarry to aid assignee, its successors, assigns if countries, the expenses incident to said | |
| Nos. 61/542,488, 61/542,495 and 61/542,553, all filed October 3, 2011, and United States Provisional Application No. 61/600,527, 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 61/600,527 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 da when known. | te and application number of said application | |
| <u>Apric 3 2012 /2</u> | Action of the Control | |
| / (Date) | (Signature) | |
| State of California) SS: | | |
| County of Santa Clasia | | |
| On April 2, 2017—, before me, Went April 2, 2017—, before me, | ne executed the same in this her authorized | |
| I certify under PENALTY OF PERJURY under the laws of the State of Calif | ornia that the foregoing paragraph is true and | |

WITNESS my hand and official seal.

(Notary Public)

forms are submitted.

*Total of

X

KAREN A. PERRICONE

Gommission # 1890143
Notary Public - California
Santa Clara County

TANY Sental. Expires May 18, 2014

former PTO/SB/15 (8-00) Modified LDLK&M

| ASSIGNMENT OF UTILITY APPLICATION | Docket Number (Optional) | |
|---|--|--|
| ACCOUNTIL OF CHEFT AT LOCATION | TIPI 3.12-752 C | |
| Whereas, I, Wael Zohni do Invensas Corporation; 2702 Orchard Parkway; San Jose, California 9 | of | |
| hereafter referred to as assignor, have with others invented certain new and useful improvements in STUB MINIMIZATION USING DUPLICATE SETS OF TERMINALS FOR WIREBOND ASSEMBLIES WITHOUT WINDOWS | | |
| X for which an application for a United States Letters Patent was file | ed on April 5, 2012 | |
| Application Number 13/440,280 | . | |
| for which an application for a United States Letters Patent was exer and | cuted by me on | |
| Whereas, Invensas Corporation | | |
| a corporation of <u>Delaware</u> herein referred to as "assignee" whose mailing a <u>2702</u> Orchard Parkway; San Jose, California 95134 | ddress 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 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 all of my right, title and interest in United States Provisional Application Nos. 61/642,488, 61/542,489 and | | |
| | | |
| <u> </u> | 11/04 1- | |
| (Date) State of California) SS: | `{Signature) | |
| State of California) SS: County of Santa Cara) | | |
| On Ari 2-2012 , before me, <u>Various</u> , <u>Abjass fully</u> personally appeared <u>Wael Zohni</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 the same in this 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 Calif | | |
| WITNESS my hand and official seal. (Notary Public) | KAREN A. PERRICONE Gommission # 1890143 Notary Public - California Santa Clara County (MPCMMEE/kpires May 18, 2014 | |
| Y *Total of A forms are submitted | | |

ASSIGNMENT (7)