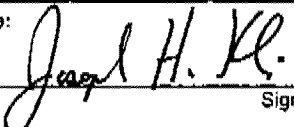


Form PTO-1595 (Rev. 09/04)
OMB No. 0651-0027 (exp. 6/30/2005)

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)/Execution Date(s): VAGE OGANESIAN (05/05/2011), BELGACEM HABA (05/04/2011), ILYAS MOHAMMED (05/04/2011), CRAIG MITCHELL (05/11/2011), AND Execution Date(s): In parentheses after inventor name Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2. Name and address of receiving party(ies) Name: <u>TESSERA RESEARCH LLC</u> Internal Address: _____ Street Address: <u>3025 ORCHARD PARKWAY</u> City: <u>SAN JOSE</u> State: <u>CALIFORNIA</u> Country: <u>United States of America</u> Zip: <u>95134</u> Additional name(s) & address(es) attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____	4. Application or patent number(s): <input type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) <u>13/051,414</u> B. Patent No.(s) Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Name and address to whom correspondence concerning document should be mailed: Name: <u>Joseph H. Karlin</u> <u>LERNER, DAVID, LITTENBERG,</u> <u>KRUMHOLZ & MENTLIK, LLP</u> Internal Address: <u>Atty. Dkt.: TESRCH 3.0-632</u> Street Address: <u>600 South Avenue West</u> City: <u>Westfield</u> State: <u>NJ</u> Zip: <u>07090</u> Phone Number: <u>(908) 654-5000</u> Fax Number: <u>(908) 654-0415</u> Email Address: <u>jkarlin@ldlkm.com</u>	6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ <u>40.00</u> <input type="checkbox"/> Authorized to be charged by credit card <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)
9. Signature: <div style="text-align: center; margin-top: 20px;">  _____ Signature Joseph H. Karlin - 62,471 Name of Person Signing </div>	8. Payment Information a. Credit Card Last 4 Numbers _____ Expiration Date _____ b. Deposit Account Number <u>12-1095</u> Authorized User Name <u>Joseph H. Karlin</u> Date <u>May 13, 2011</u> Total number of pages including cover sheet, attachments, and documents: 6

CH \$40.00 121095 13051414

Form PTO-1595	RECORDATION FORM COVER SHEET (continued)
Additional Conveying Party(ies)/Execution Date(s) (1. Continued):	
Piyush Savalia (05/04/2011)	
Additional Assignees (2. Continued):	
Assignee Name: _____	
Internal Address: _____	
Street Address: _____	
City: _____ State: _____ Country: _____ Zip: _____	
Assignee Name: _____	
Internal Address: _____	
Street Address: _____	
City: _____ State: _____ Country: _____ Zip: _____	
Assignee Name: _____	
Internal Address: _____	
Street Address: _____	
City: _____ State: _____ Country: _____ Zip: _____	
Additional Applications and/or Patents (4. Continued):	
Additional Patent Application Numbers 4A. Continued:	Additional Patent Numbers 4B. Continued:
Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	

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

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) TESRCH 3.0-632
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Whereas, I, Vage Oganessian of c/o Tessera Research LLC, 3025 Orchard Parkway, San Jose, California 95134 hereafter referred to as assignor, have with others invented certain new and useful improvements in STACKED MICROELECTRONIC ASSEMBLY WITH TSVS FORMED IN STAGES WITH PLURAL ACTIVE CHIPS

for which an application for a United States Letters Patent was filed on March 18, 2011
Application Number 13/051,414

for which an application for a United States Letters Patent was executed by me on _____ and _____

Whereas, Tessera Research LLC a Limited Liability Company 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 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 No. 61/419,037, filed December 2, 2010, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 61/419,037 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.

05/05/2011 (Date) [Signature] (Signature)

State of California) SS:
County of Santa Clara)

On 5/5/2011 before me, Salina Diaz, Notary Public personally appeared Vage Oganessian, 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]
(Notary Public)

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

*Total of 5 forms are submitted.

LD-529:

TESRCH 1989 _REVISED_Assignment_of_UTILITY_App_(PTO_SB_15)_Multiple_Inventors_Provisional_Filed.doc

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

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) TESRCH 3.0-632
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Whereas, I, Belgacem Haba of c/o Tessera Research LLC, 3025 Orchard Parkway, San Jose, California 95134

hereafter referred to as assignor, have with others invented certain new and useful improvements in STACKED MICROELECTRONIC ASSEMBLY WITH TSVS FORMED IN STAGES WITH PLURAL ACTIVE CHIPS

for which an application for a United States Letters Patent was filed on March 18, 2011
Application Number 13/051,414

for which an application for a United States Letters Patent was executed by me on _____
and _____

Whereas, Tessera Research LLC
a Limited Liability Company 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 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 No. 61/419,037, filed December 2, 2010, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 61/419,037 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.

5/4/11
(Date)

[Signature]
(Signature)

State of California) SS:
County of Santa Clara)

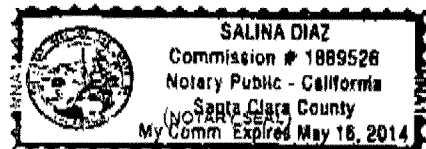
On MAY 4, 2011 before me, Salina Diaz, Notary Public

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]
(Notary Public)



*Total of 5 forms are submitted.

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

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) TESRCH 3.0-632
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Whereas, I, Ilyas Mohammed of c/o Tessera Research LLC, 3025 Orchard Parkway, San Jose, California 95134 hereafter referred to as assignor, have with others invented certain new and useful improvements in **STACKED MICROELECTRONIC ASSEMBLY WITH TSVs FORMED IN STAGES WITH PLURAL ACTIVE CHIPS**

- for which an application for a United States Letters Patent was filed on March 18, 2011
Application Number 13/051,414
- for which an application for a United States Letters Patent was executed by me on _____ and _____

Whereas, Tessera Research LLC a Limited Liability Company 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 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 No. 61/419,037, filed December 2, 2010, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 61/419,037 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.

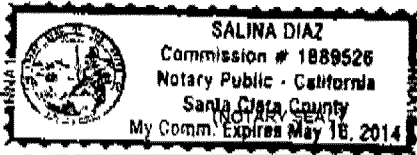
5/14/2011 (Date) [Signature] (Signature)

State of California) SS:
County of Santa Clara)

On May 4, 2011 before me, Salina Diaz, Notary Public personally appeared Ilyas Mohammed, 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 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)



*Total of 5 forms are submitted.

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

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

TESRCH 3.0-632

Whereas, I, Craig Mitchell of c/o Tessera Research LLC, 3025 Orchard Parkway, San Jose, California 95134

hereafter referred to as assignor, have with others invented certain new and useful improvements in STACKED MICROELECTRONIC ASSEMBLY WITH TSVS FORMED IN STAGES WITH PLURAL ACTIVE CHIPS

for which an application for a United States Letters Patent was filed on March 18, 2011

Application Number 13/051,414

for which an application for a United States Letters Patent was executed by me on _____ and _____

Whereas, Tessera Research LLC

a Limited Liability Company 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 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 No. 61/419,037, filed December 2, 2010, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 61/419,037 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

5/16/11
(Date)

Craig Mitchell
(Signature)

State of California) SS:

County of Santa Clara)

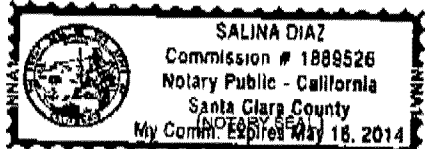
On May 11, 2011 before me, SALINA DIAZ, Notary Public

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.

Salina Diaz
(Notary Public)



*Total of 5 forms are submitted.

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

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) TESRCH 3.0-632
--	---

Whereas, I, Piyush Savalia of c/o Tessera Research LLC, 3025 Orchard Parkway, San Jose, California 95134

hereafter referred to as assignor, have with others invented certain new and useful improvements in **STACKED MICROELECTRONIC ASSEMBLY WITH TSVS FORMED IN STAGES WITH PLURAL ACTIVE CHIPS**

for which an application for a United States Letters Patent was filed on March 18, 2011
Application Number 13/051,414

for which an application for a United States Letters Patent was executed by me on _____
and _____

Whereas, Tessera Research LLC
a Limited Liability Company 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 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 No. 61/419,037, filed December 2, 2010, and in the invention disclosed thereof in all countries of the world including the right to claim priority or benefit of said Application No. 61/419,037 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

5/4/2011
(Date)

[Signature]
(Signature)

State of California) SS:

County of Santa Clara)

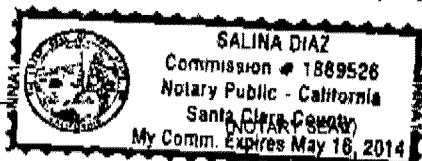
Salina Diaz, Notary Public

On May 4, 2011, before me, _____ personally appeared Piyush Savalia, 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)



*Total of 5 forms are submitted.

L.D-529

PATENT