# 503898571 07/01/2016

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

rsion v1.1 EPAS ID: PAT3945222

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
VAGE OGANESIAN	03/17/2011
BELGACEM HABA	02/18/2011
ILYAS MOHAMMED	02/18/2011
PIYUSH SAVALIA	02/18/2011

## **RECEIVING PARTY DATA**

Name:	TESSERA RESEARCH LLC
Street Address:	3025 ORCHARD PARKWAY
City:	SAN JOSE
State/Country:	CALIFORNIA
Postal Code:	95134

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15198524

# **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.

**Phone:** (908) 518-6356

**Email:** assignment@lernerdavid.com

Correspondent Name: LDLK&M

Address Line 1: 600 SOUTH AVENUE WEST

Address Line 4: WESTFIELD, NEW JERSEY 07090

ATTORNEY DOCKET NUMBER:	TESSERA 3.0-639 DIV DIV
NAME OF SUBMITTER:	MELINDA C. CORMIER
SIGNATURE:	/Melinda C. Cormier/
DATE SIGNED:	07/01/2016

## **Total Attachments: 4**

source=TESSERA 3.0-639 DIV DIV (2891) Assignment (Inv to TRLLC)#page1.tif source=TESSERA 3.0-639 DIV DIV (2891) Assignment (Inv to TRLLC)#page2.tif source=TESSERA 3.0-639 DIV DIV (2891) Assignment (Inv to TRLLC)#page3.tif

PATENT 503898571 REEL: 039062 FRAME: 0355

source=TESSERA 3.0-639 DIV DIV (2891) Assignment (Inv to TRLLC)#page4.tif

PATENT REEL: 039062 FRAME: 0356

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)	
	TESSERA 3.0-639	
Whereas, I, Vage Oganesian	of	
c/o Tessera Research LLC; 3025 Orchard Parkway; San	Jose, California 95134	
hereafter referred to as assignor, have with others invented certain	ain new and useful improvements in	
HIGH DENSITY THREE-DIMENSIONAL INTEGRATE	ED CAPACITORS	
x for which an application for a United States Letters Pate	ent was filed on December 9, 2010	
Application Number 12/964,049	A service of the serv	
for which an application for a United States Letters Paten and	it was executed by me on	
Whereas, Tessera Research LLC		
a Limited Liability Company of <u>Delaware</u> herein referred to as "a 3025 Orchard Parkway; San Jose, California 95134	assignee" whose mailing address is	
is desirous of acquiring the entire right, title and interest in the sa	ma'	
is desireds or acquiring the entire right, the and interest in the sa	inte,	
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 to when known.	ne filing date and application number of said application	
WHEN KHOWH,		
03/17/2011	SAGUL	
(Date)	( <del>Si</del> gnature)	
State of California ) SS:		
County of Santa Clara )		
On March (7, 2011), before me, Salies Dist, Notary Public personally appeared Vage Oganesian, 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 his 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 St correct.	ate of California that the foregoing paragraph is true and	
WITNESS my hand and official seat  (Notary Public)  SALINA DIAZ  Commission # 1889526  Notary Public - California  Santa Clara County  My Comm. Explay 145, 2014		
Trade of American		
x *Total of 4 forms are submitted.		

(.D-527)

	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	TESSERA 3.0-639	
Whereas, I, Belgacem Haba c/o Tessera Research LLC; 3025 Orchard Parkway; San hereafter referred to as assignor, have with others invented certa	ain new and useful improvements in	
Application for a United States Letters Patent was filed on   December 9, 2010		
Whereas, Tessera Research LLC a Limited Liability Company of Delaware herein referred to as *a 3025 Orchard Parkway; San Jose, California 95134 is desirous of acquiring the entire right, title and interest in the sa		
NOW, THEREFORE, in consideration of the sum of one is acknowledged, and other good and valuable consideration, assignee my entire right, title and interest for the United Statinvention and the aforesaid utility patent application and all substitute or reissue applications and patents applied for or gother countries, for said invention, including without limitation priority or benefit of the aforesaid utility application pursuant to priority or benefit and the Commissioner of Patents and Trade patents on said improvements or resulting therefrom to said as and the undersigned for me and my legal representatives, he further remuneration, to execute and deliver all original, divisible terms are patent on said improvements and all assignments there assignee or its representatives all facts known to the undersign to testify in any interferences or other legal proceedings in winvolved, to sign all lawful papers, make all rightful oaths, and to successors, assigns and nominees to obtain patent protection incident to said applications to be borne and paid by said assign	ates of America and all other countries in and to said all original, divisional, continuation, continuation-in-part, ranted therefor in the United States of America and all all applications and patents for said invention claiming any law or treaty, and including the right to claim such amarks is hereby authorized and requested to issue all signee herein, as assignee of the entire interest therein; irs and assigns do hereby agree and covenant without sional, continuation, reissue and other applications for of to said assignee or its assigns, to communicate to said need respecting said improvements, whenever requested, which any of said applications or patents may become to do generally everything necessary to aid assignee, its need for said improvements in all countries, the expenses	
And I do hereby authorize my attorneys to insert on this deed t when known.  18 February 2011 (Date)	Whater	
State of California ) SS:  County of Sanda Cara )  On Feb / 8120// , before me, appeared Belgacem Haba, who proved to me on the basis of subscribed to the within instrument and acknowledged to me capacity, and that by figher signature on the instrument the per executed the instrument.	that he/she executed the same in his/her authorized	
I certify under PENALTY OF PERJURY under the laws of the St correct.  WITNESS my hand and official seal.  (Notary Public)	SALINA DIAZ Commission * 1889526 Notary Public - California Santa Clara County My Commission * 16, 2014	

Whereas, Iilyas Mohammed	A COLOSISSENIT OF LITE ITY A DOLLO ATION	Docket Number (Optional)	
tereather referred to as assignor, have with others invented cartain new and useful improvements in HIGH DENSITY THREE-DIMENSIONAL INTEGRATED CAPACITORS    Tor which an application for a United States Letters Patent was filed on December 9, 2010	ASSIGNMENT OF UTILITY APPLICATION	TESSERA 3.0-639	
hereafter referred to as assignor, have with others invented certain new and useful improvements in HIGH DENSITY THREE-DIMENSIONAL INTEGRATED CAPACITORS    X   for which an application for a United States Letters Patent was filed on Application Number 12/964,049   December 9, 2010   December 9, 20			
HIGH DENSITY THREE-DIMENSIONAL INTEGRATED CAPACITORS    To which an application for a United States Letters Patent was filed on   December 9, 2010	Antiques to the state of the st		
Application Number 12/964,049  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) (\$	<b>~</b> ·	*	
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 ant 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 in an to 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 assigneed of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and other applications for Letters Patent on said improvements and all assignments thereof 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.  And I do hereby authorize my attorneys to insert on this deed the filling date and application number of said application when known.   City of the proceeding paragraph is true and correct.  WITNESS my han	x for which an application for a United States Letters Patent was filed on December 9, 2010		
a Limited Liability Company of <u>Delaware</u> 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 chaining 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 rein 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 underesigned respecting said improvements in 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 hominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.  Sailing Diaz, Notary Public  On Library Publ		nt was executed by me on	
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.  Salina Diaz, Notary Public  On	Whereas, Tessera Research LLC		
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 or said invention claiming 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 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.  Carrier is a part of the person whose name is subscribed to the within instrument and acknowledged to me that figshe executed the same in figsher au	• • • • • • • • • • • • • • • • • • • •	assignee" whose mailing address is	
is acknowledged, and other good and valuable consideration. I as assignor hereby sell, assign and set over to said assignee my entire right, little 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, contin	is desirous of acquiring the entire right, title and interest in the sa	ame;	
when known.  2 (8 20 (	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 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		
State of California ) SS:  County of Salina Diaz, Notary Public personally appeared livas 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 freshe executed the same in figher 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 California that the foregoing paragraph is true and correct.  WITNESS my hand and official seal.  SALINA DIAZ  Commission # 1889526  Notary Public - California Sa(support)  Salina Diaz, Notary Public - California Sa(support)  SALINA DIAZ  Commission # 1889526  Notary Public - California Sa(support)  My Comm. Expires May 16, 2014		he filing date and application number of said application	
State of California  County of  Salina Diaz, Notary Public  Description  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 freshe executed the same in fighter authorized capacity, and that by fighter 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  Sakublary 650k-ly  My Comm. Expires May 16, 2014	2/18/2011	J. J	
County of 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 reshe executed the same in fisher authorized capacity, and that by fisher 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 Sa(NDCATY 660-bly My Comm. Expires May 16, 2014	(Date)	(Signature)	
On			
on	in the control of the	Salina Diaz, Notary Public	
Correct.  WITNESS my hand and official seal.  (Notary Public)  SALINA DIAZ  Commission # 1889526  Notary Public - California  Sa(NIDEARY SOUND)  My Comm. Expires May 16, 2014	on		
Commission # 1889526 Notary Public - California Sa(NOCARY 860H) My Comm. Expires May 16, 2014		ate of California that the foregoing paragraph is true and	
Commission # 1889526 Notary Public - California Sa(NOCARY 860H) My Comm. Expires May 16, 2014	WITNESS my hand and official seal.	SALINA DIAZ	
My Comm. Expires May 16, 2014	Mark Public (Notary Public)	Commission # 1889526 Notary Public - California	
	(100m) - unity	My Comm. Expires May 16, 2014	

	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	TESSERA 3.0-639	
Whereas, I, Piyush Savalia	of	
c/o Tessera Research LLC; 3025 Orchard Parkway; San		
hereafter referred to as assignor, have with others invented cert		
HIGH DENSITY THREE-DIMENSIONAL INTEGRATE	ED CAPACITORS	
x for which an application for a United States Letters Pate Application Number 12/964,049		
for which an application for a United States Letters Pater and	nt was executed by the on	
Whereas. Tessera Research LLC		
a Limited Liability Company of <u>Delaware</u> herein referred to as a 3025 Orchard Parkway; San Jose, California 95134	assignee" whose mailing address is	
is desirous of acquiring the entire right, title and interest in the sa	ame;	
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 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 to when known.	the filing date and application number of said application	
62 18 2611	& Januaris	
(Data)	(Signature)	
State of California ) SS:	(Oignature)	
County of Sasta clan)		
The state of the s	alina Diaz, Notary Public	
On		
I certify under PENALTY OF PERJURY under the laws of the S correct.	state of California that the foregoing paragraph is true and	
WITNESS my hand and official seal. (Notary Public)	SALINA DIAZ Commission # 1889526 Notary Public - California (NOTA-F/SEACPunty My Comm. Expires May 16, 2014	

TESSER (937 - Assignment of Utility App (PTO SB-15) - Multiple Inventors - No Provisional Fried - Ca (2).doc