504692634 12/18/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4739356

		NEW ASSIGNME	ENT		
NATURE OF CONVEYAN	ICE:	ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY DA	٩TA				
		Name		E	ecution Date
VAGE OGANESIAN				11/	02/2010
BELGACEM HABA				11/	02/2010
ILYAS MOHAMMED				11/	02/2010
CRAIG MITCHELL				11/	02/2010
PIYUSH SAVALIA				11/	02/2010
RECEIVING PARTY DA	TA				
Name:	TESSE	RA RESEARCH LLC			
Street Address:					
City:	SAN JOSE				
State/Country:	CALIF	CALIFORNIA			
Postal Code:	95134				
PROPERTY NUMBERS	Total: 1				
		Numbe	r]	
Property Type Application Number:		15842080			
Application Number:		15842080			
	 ATA	15842080			
Application Number:		908)654-0415			
Application Number: CORRESPONDENCE D. Fax Number: Correspondence will be	e sent to	908)654-0415 the e-mail address fi l			vill be sent
Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p	e sent to	908)654-0415 the e-mail address fil ; if that is unsuccessi			vill be sent
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Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	e sent to provideo	908)654-0415 <i>the e-mail address fill</i> ; <i>if that is unsuccessi</i> 908) 518-6356 assignment@lernerdav LERNER, DAVID, LITT 500 SOUTH AVENUE V NESTFIELD, NEW JEI	f ul, it will be ser id.com ENBERG, KRUN WEST RSEY 07090 I8 DIV CON C	nt via US Mail.	
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ASSIGNMENT OF UTILITY APPLICATION TESSERA 3.0-818 Whereas, I, Vage Oganesian of of coressera, Inc; 3025 Orchard Parkway; San Jose, California 95134 bereafter referred to as assignor, have with others invented certain new and useful improvements in STAGED VIA FORMATION FROM BOTH SIDES OF CHIP of Application Number 12/884,649 for which an application for a United States Letters Patent was filed on Application Number 12/884,649 of of softwareas, Tessera Research LLC is a lumited Likely Company of Delaware herein referred to as "assignee" whose mailing address is 3025 Orchard Parkway; San Jose, California, 95134 is desirous of acquining the entire right, title and Interest for the Same: NOW, THEREFORE, in consideration of the sum of point of beam of point in a dore a paplication and patients applied for or granted therefor in the United States of America and a differ countries, for said invention, including without limitation and paplication, continuation, continuation, continuation, continuation, continuation, continuation, continuation, continuation of para substitue or reissue applications and patents applied for or granted therefor in the United States of America and a differ countries, for said invention, including without limitation and patients and patents and patients and tada deliver and patient protec		former PTO/SB/15 (8-00) Modified LDLK&M Docket Number (Optional)		
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do Tessera, Inc.; 3025 Orchard Parkway; San Jose, California 95134 hereafter referred to as assignor, have with others invented certain new and useful improvements in STAGED VIA FORMATION FROM BOTH SIDES OF CHIP Application Number 12/884,649 for which an application for a United States Letters Patent was filed on September 17, 2010 Application Number 12/884,649 and Uthereas, Tessera Research LLC a Limited Liability Company of Delaware herein referred to as "assignee" whose mailing address is 3026 Orchard Parkway; San Jose, California 95134 is desirous of acquiring the entire right, title and Interest in the same; INOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt where is adsorded, and other good and valuable consideration, 1 as assignor hereby sell, assign and set over to sa assignee my entire right, title and Interest for the United States of America and all other countries, for said invention, including without limitation and application and pleates tors said any entire or in the United States of the orden said invention claimi priority or benefit and the Commissioner of Patents and Trademarks is hereis autholized and requested to issue a patents on said inprovements and all assignment thereaft to said assignee or the saignee of the saignee of the saignee or the saignee or the regulations or patents and hytegal representatives, theirs and assignee or the saignee to the saignee or the sa		IESSERA 3.0-010		
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Image: September 17. 2010 Application Number 12/884,649 Image: September 17. 2010 Application Number 12/884,649 Image: September 17. 2010 Whereas, Tessera Research LLC a Linited Liability Company of Delawarg herein referred to as "assignee" whose mailing address is 3026 Orchard Parkway; San Jose, California 95134 is desirous of acquiring the entire right, title and Interest in the same; NOW, HEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt where is acknowledged, and other good and valuable consideration, I as assign or hereby sell, assign and set over to as assigneer my entire right, title and Interest for the United States of America and all other countries in and to same of one dollars (\$ 1.00), the receipt where is acknowledged, and other good and valuable consideration all or orginal divisional, continuation, continuation-hepa substitute or reissue applications and patents and all original divisional, continuation claimir priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim sup priority or benefit and the Commissioner of Patents and Tardemarks is and assigne or its assigne, to its and requested to its as a sasigne or the representatives all fork known to the undersigned sequencing sald improvements, wherever requested to testify in any interferences or other legal proceedings in which any of said applications or patents and be commissioner of right/1 datas, and to do generally excepting necessary to ald assignee, its representatives in all countries, the expense includent to said applications to be bore and paid by said assignee.	· · · · · · · · · · · · · · · · · · ·			
In ormital an application for a United States Leiters 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 3026 Orchard Parkway; San Jose, California 35134 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 where is acknowledged, and other good and valuable consideration, 1 as assigner moreby sell, assign and set over to sa assignee or white right, title and Interest for the United States of America and a tother countries in and to sa assignee or or granted therefor in the United States of America and a state over to sa ubstitute or relissue applications and patents application and application and the administry application programme to or ready, and including the right to claim supplication programe therefor in the United States of America and a patents or said invention, and the commissioner of Patents and Trademarks is hereby authorized and requested to issue application surprised for me and my legal proceedings here herein, as assignee of the entire interest therein a di the rownements and all approcesting is which any interferences or other legal proceeding is high the applications or patents may becominave to said applications to be borne and paid by said assignee. Litters Patent on said improvements within patent protection for said applications or patents may becominavely to slat applications or patents may becominavely to slat applications to be borne and paid by said assignee. Litters Patent on said improvements or dist approcesting is hightly to achine atom to beassign to thereasy evertite therein a said applications to be born	لاست. 	0 1 1 0 1 7 0010		
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and Whereas, <u>Tessera Research LLC</u> a Limited Liability Company of <u>Delaware</u> herein referred to as "assignee" whose mailing address is <u>3025 Orchard Parkway; Sen Jose, California 95134</u> is desirous of acquiring the entire right, title and Interest in the same; NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ 100), the receipt whereas assignee my entire right, title and interest for the United States of America and all other countries in and to sa invention and the aforesaid utility patent application and all official, divisional, continuation-topas assignee my entire right, title and interest for the United States of America and all other countries, for said invention, including without limitation all applications and patents to resistue applications and patents applied for or granted therefor in the United States of America and a point or benefit of the aforesaid utility papication pursuant to any law or treaty, and including the right to claim suc priority or benefit and the Commissioner of Patents and Tredemarks is hereby autereated to issue a ploations for excute and ediver all origin, divisional, continuation results on the reprileations or patents in satisginee or its assigne, to communicate to sa assignee or its representatives all facts known to the undersigned repeeting said improvements, wherever requeste to testly in any interferences or other legal proceedings in which any of said applications not patients in all advisional, and to assignee or its assigns on patents may becommunicate to said applications to be borne and paid by said assignee. And I do hereby autorize my attorneys to insert on this deed the filing date and application number of said application when known. Signature) On NOV NOV <td< td=""><td></td><td>tuine evented by me on</td></td<>		tuine evented by me on		
Whereas, Tessera Research LLC a Limited Liability Company of Delawarg, 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 where is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to as assignee my entire right, title and interest for the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility patent application and and any origin, dinkluding the right to claim supplicitly or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim supplication pursuant to any law or treaty, and including the right to claim supplication pursuant to any law or treaty, and including the right to claim supplication pursuant to any law or treaty, and including the right to claim supplication pursuant to any law or treaty, and including the right to claim supplication pursuant to any law or treaty, and including the right to claim supplication pursuant to any law or treaty, and including the right to claim supplication pursuant to any law or treaty, and including the right to claim supplication pursuant to any law or treaty, and including the right to claim supplication pursuant to any laws or treaty, and including the right to claim supplication pursuant to any laws or treaty and including the right to claim supplication pursuant to any laws or treaty, and including the right to claim supplication and patents proceedings in whoh rape or proteotics and assignee or tits a		It was executed by the on		
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<u>3025 Orchard Parkway; San Jose, California 95134</u> is desirous of acquiring the entire right, title and Interest in the same; NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ 1.00), the receipt where is acknowledged, and other good and valuable consideration; I as assigner hereby sell, assign and set over to sa assignee my entire right, title and interest for the United States of America and all other countries in and to sa invention and the aforesaid utility patent application and all original, divisional, continuation, divisional, continuation, and the aforesaid utility application parsuant to any law or treaty, and including the right to claim suc priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue a patents on said improvements or resulting therefrom to said assignee harein, as assigned of the entire interest thereil and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant witho further remuneration, to execute and deliver all original, divisional, continuation, reissue applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to ald assignee, i 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 filling date and application number of said application when known. <u>MIDOR Onesian</u> , who proved to me on the basis of satisfactory evidence to be the person whose name apatented to the within instrument acknowledged to me that <u>bashe</u>				
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NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ 1.00), the receipt where is acknowledged, and other good and valuable consideration, I as assigner hereby sell, assign and set over to sal assignee my entire right, title and interest for the United States of America and all other countries in and to say assignee my entire right, and the affectuation and all original, divisional, continuation-in-para substitute or reissue applications and patents applied for or granted therefor in the United States of America and a other countries, for said invention, including without limitation all applications and patents for said invention original, divisional, continuation, continuation-in-para and the undersigned for me and my legal representatives, heirs and assignee herein, as assignee of the entire interest thereid and the undersigned for me and my legal representatives, heirs and assignee or its assigns, to communicate to as assignee or its representatives all assignments thereof to said assignee or its assigns, to communicate to as assignee or its representatives all facts known to the undersigned respecting said improvements and all assignments thereof to said assignee or its assigns, to communicate to as assignee or its representatives all facts known to the undersigned respecting said applications to patents may becom involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to ald assignee, incident to said asplications to be borne and paid by said assignee. And the hereby authorize my attorneys to insert on this deed the filing date and application number of said application such as a subscribed to the known.	Marriel and a second	<u></u>		
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<u>Interview and official seal</u> (Date) State of California (Date) State of California (Date) State of California (Date) On <u>NOV 2, 2000</u> before me, <u>Scl. Nra 2, 20 for y Rublic</u> personal appeared <u>Vage Oganesian</u> , who proved to me on the basis of satisfactory evidence to be the person whose name subscribed to the within instrument and acknowledged to me that for she executed the same in his/her authorized capacity, and that by forher signature on the instrument the person, or the entity upon behalf of which the person acte executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true ar correct. WITNESS my hand and official seal (Notary Public) My Contince state of the Stat	is acknowledged, and other good and valuable consideration, assignee my entire right, title and interest for the United Sta Invention and the aforesaid utility patent application and al substitute or reissue applications and patents applied for or g other 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, hei further remuneration, to execute and deliver all original, divis Letters 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 w involved, to sign all lawful papers, make all rightful oaths, and t successors, assigns and nominees to obtain patent protection	I as assignor hereby sell, assign and set over to sai ates of America and all other countries in and to sai II original, divisional, continuation, continuation-in-par ranted therefor in the United States of America and a all applications and patents for said invention claimin o any law or treaty, and including the right to claim suc- emarks is hereby authorized and requested to issue a signee herein, as assignee of the entire interest therein irs and assigns do hereby agree and covenant withou sional, continuation, reissue and other applications for of to said assignee or its assigns, to communicate to sai hed respecting said improvements, whenever requested which any of said applications or patents may becom- to do generally everything necessary to ald assignee.		
State of California) SS: County of Sanda dame) On <u>NOV 7, 7000</u> , before me, <u>Salara base</u> <u>Obtary Rubic</u> personal appeared <u>Vage Oganesian</u> , who proved to me on the basis of satisfactory evidence to be the person whose name subscribed to the within instrument and acknowledged to me that beshe executed the same in higher authorize capacity, and that by figher signature on the instrument the person, or the entity upon behalf of which the person acte executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true ar correct. WITNESS my hand and official seal (Notary Public) (Notary Public) Wither State of California that the foregoing paragraph is true ar Santa Clara County My Confinct State of Santa Clara County	And I do hereby authorize my attorneys to insert on this deed t	iee.		
State of California) SS: County of Sanda dame) On <u>NOV 7, 7000</u> , before me, <u>Saliwa kaze</u> <u>Ostary Rubic</u> personal appeared <u>Vage Oganesian</u> , who proved to me on the basis of satisfactory evidence to be the person whose name subscribed to the within instrument and acknowledged to me that beshe executed the same in higher authorize capacity, and that by figher signature on the instrument the person, or the entity upon behalf of which the person acte executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true ar correct. WITNESS my hand and official seal (Notary Public) (Notary Public) Wither State of California that the foregoing paragraph is true ar Santa Clara County My ConfinctBastreestand 16, 2014	when known.	iee.		
State of California) SS: County of Sanda dame) On <u>NOV 7, 7000</u> , before me, <u>Salara base</u> <u>Obtary Rubic</u> personal appeared <u>Vage Oganesian</u> , who proved to me on the basis of satisfactory evidence to be the person whose name subscribed to the within instrument and acknowledged to me that beshe executed the same in higher authorize capacity, and that by figher signature on the instrument the person, or the entity upon behalf of which the person acte executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true ar correct. WITNESS my hand and official seal (Notary Public) (Notary Public) Wither State of California that the foregoing paragraph is true ar Santa Clara County My Confinct State of Santa Clara County	when known.	iee.		
On <u>NOV 7, 7000</u> , before me, <u>Salina Diaz</u> <u>Ostary Public</u> personal appeared <u>Vage Oganesian</u> , who proved to me on the basis of satisfactory evidence to be the person whose name subscribed to the within instrument and acknowledged to me that bashe executed the same in higher authorized capacity, and that by (<u>Dher</u> signature on the instrument the person, or the entity upon behalf of which the person acte executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true ar correct. WITNESS my hand and official seal- (Notary Public) (Notary Public)	when known.	nee. The filling date and application number of said application		
On <u>NOV 7, 7000</u> , before me, <u>Salina Diaz</u> <u>Ostary Public</u> personal appeared <u>Vage Oganesian</u> , who proved to me on the basis of satisfactory evidence to be the person whose name subscribed to the within instrument and acknowledged to me that bashe executed the same in higher authorized capacity, and that by (<u>Dher</u> signature on the instrument the person, or the entity upon behalf of which the person acte executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true ar correct. WITNESS my hand and official seal- (Notary Public) (Notary Public)	when known. ///02/20/0 (Date)	nee. The filling date and application number of said applicatio		
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true ar correct. WITNESSymy hand and official seal- WITNESSymy	when known. ///02/20/0 (Date)	nee. The filling date and application number of said application		
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x *Total of 5 forms are submitted.	when known. (Date) State of California County of Sanda dama) SS: County of Sanda dama) On <u>NOV 2, 2000</u> before me, <u>Sanda</u> appeared <u>Vage Oganesian</u> , who proved to me on the basis of subscribed to the within instrument and acknowledged to me capacity, and that by higher signature on the instrument the per executed the instrument. I certify under PENALTY OF PERJURY under the laws of the S correct. WITNESSymy hand and official seal WITNESSymy hand and official seal WITNESSYMY hand and official seal	the filling date and application number of said application Signature) Signature) Signature) Market Signature) Market Signature) Satisfactory evidence to be the person whose name is that Goishe executed the same in Gisher authorize is that Goishe executed the same in Gisher authorize is the Galifornia that the foregoing paragraph is true and Sallina Diaz Sama Clara County Public - Galifornia Sama Clara County executed Galifornia		

Assignments TESSERA 3 9 518 (2) doc

	former PTO/SB/15 (8-00) Modified LDLX&M Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	TESSERA 3.0-618
	an a
/hereas, I,Belgacem Haba	of
c/o Tessera, Inc.; 3025 Orchard Parkway; San Jose, California	a 95134
ereafter referred to as assignor, have with others invented certain n	ew and useful improvements in
STAGED VIA FORMATION FROM BOTH SIDES OF CHI	P
x for which an application for a United States Letters Patent w	as filed on September 17, 2010
Application Number 12/884,649	
for which an application for a United States Letters Patent wa	s executed by me on
and	
/hereas, Tessera Research LLC	1
Limited Liability Company of Delaware herein referred to as "assig	nee: whose mailing address is
3025 Orchard Parkway; San Jose, California 95134	
desirous of acquiring the entire right, title and interest in the same,	
acknowledged, and other good and valuable consideration, I as ssignee my entire right, title and interest for the United States vention and the aforesaid utility patent application and all or ubstitute or reissue applications and patents application and all or ubstitute or reissue applications and patents applied for or grant ther countries, for said invention, including without limitation all a riority or benefit of the aforesaid utility application pursuant to any riority or benefit and the Commissioner of Patents and Trademan atents on said improvements or resulting therefrom to said assign atents on said improvements or resulting therefrom to said assign of the undersigned for me and my legal representatives, heirs a inther remuneration, to execute and deliver all original, division etters Patent on said improvements and all assignments thereof to ssignee or its representatives all facts known to the undersigned ro volved, to sign all lawful papers, make all rightful oaths, and to do uccessors, assigns and nominees to obtain patent protection for neident to said applications to be borne and paid by said assignee.	of America and all other countries in and to said ginal, divisional, continuation, continuation-in-part ad therefor in the United States of America and a upplications and patents for said invention claiming law or treaty, and including the right to claim such ks is hereby authorized and requested to issue a see herein, as assignee of the entire interest therein nd assigns do hereby agree and covenant without al, continuation, reissue and other applications for said assignee or its assigns, to communicate to said especting said improvements, whenever requested to any of said applications or patents may become o denerally everything necessary to ald assignee, it
vhen known.	
hen known.	ling date and application number of said application
	ling date and application number of said application
when known. 11 - 02 - 2010 (Date) (Date) State of California) SS:	
State of California) SS:	ling date and application number of said application
when known. $\frac{11 - 02 - 2010}{(Date)}$ State of California) SS: County of State Clara) On NOV 2, 2010 before me, Schura appeared Belgacem Haba, who proved to me on the basis of sa subscribed to the within instrument and acknowledged to me that ispacity, and that by (is/her signature on the instrument the person	Ling date and application number of said application
when known. $\frac{11 - 02 - 2010}{(Date)}$ State of California) SS: County of State Clara) Con NOV Z. 2010 before me, Sching) Don NOV Z. 2010 before me, Sching) papeared Belgacem Haba, who proved to me on the basis of sa subscribed to the within instrument and acknowledged to me that capacity, and that by Sher signature on the instrument the person executed the instrument. certify under PENALTY OF PERJURY under the laws of the State	ling date and application number of said application Set Sur Signature) D14 2. Whay Public personal isfactory evidence to be the person whose name in the executed the same in historian authorize or the entity upon behalf of which the person acted of California that the foregoing paragraph is true an
vhen known. <u> 1- 02- 2010</u> (Date)	bia 2. Whey Public personall bisfactory evidence to be the person whose name in the entity upon behalf of which the person acted

Assignments TESSERA 3 0-618 (2).doc:

	former PTO/SB/15 (8-00) Modified LOLK&M Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	TESSERA 3.0-618
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 cert	
STAGED VIA FORMATION FROM BOTH SIDES OF	СНІР
X for which an application for a United States Letters Pat Application Number 12/884,649	tent was filed on September 17, 2010
for which an application for a United States Letters Pate and	nt was executed by me on
Whereas, Tessera Research LLC	
a Limited Liability Company of <u>Delaware</u> herein referred to as 3025 Orchard Parkway; San Jose, California 95134	"assignee" whose mailing address is
is desirous of acquiring the entire right, title and interest in the s	same;
is acknowledged, and other good and valuable consideration assignee my entire right, title and interest for the United St invention and the aforesaid utility patent application and a substitute or reissue applications and patents applied for or g other 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 Trad patents on said improvements or resulting therefrom to said as	tates of America and all other countries in and to sai all original, divisional, continuation, continuation-in-par granted therefor in the United States of America and a i all applications and patents for said invention claimin o any law or treaty, and including the right to claim suc iemarks is hereby authorized and requested to issue a
and the undersigned for me and my legal representatives, he further remuneration, to execute and deliver all original, div Letters Patent on said improvements and all assignments there assignee or its representatives all facts known to the undersig to testify in any interferences or other legal proceedings in involved, to sign all lawful papers, make all rightful oaths, and successors, assigns and nominees to obtain patent protectio incident to said applications to be borne and paid by said assig	ssignee herein, as assignee of the entire interest therein eirs and assigns do hereby agree and covenant withou- visional, continuation, reissue and other applications for eof to said assignee or its assigns, to communicate to said aned respecting said improvements, whenever requested which any of said applications or patents may becom- to do generally everything necessary to aid assignee, if on for said improvements in all countries, the expense nee.
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and the undersigned for me and my legal representatives, he further remuneration, to execute and deliver all original, div Letters Patent on said improvements and all assignments there assignee or its representatives all facts known to the undersig to testify in any interferences or other legal proceedings in involved, to sign all lawful papers, make all rightful oaths, and successors, assigns and nominees to obtain patent protectic incident to said applications to be borne and paid by said assig And I do hereby authorize my attorneys to insert on this deed when known. <u>11/2/3010</u> (Date) State of California) SS: County of <u>Santa Clana</u>) On <u>NOV 2, 2010</u> before me, <u>Santa</u> appeared <u>livas Mohammed</u> , who proved to me on the basis subscribed to the within Instrument and acknowledged to m capacity, and that by bitter signature on the instrument the pre- executed the instrument. I certify under PENALTY OF PERJURY under the laws of the S	ssignee herein, as assignee of the entire interest therein eirs and assigns do hereby agree and covenant without visional, continuation, reissue and other applications for each to said assignee or its assigns, to communicate to said aned respecting said improvements, whenever requested which any of said applications or patents may become to do generally everything necessary to aid assignee, it on for said improvements in all countries, the expense mee. the filling date and application number of said application (Signature) (Signature) (Signature) was big to be the person whose name to the entity upon behalf of which the person acter the entity upon behalf of which the person acter
and the undersigned for me and my legal representatives, he further remuneration, to execute and deliver all original, div Letters Patent on said improvements and all assignments there assignee or its representatives all facts known to the undersig to testify in any interferences or other legal proceedings in involved, to sign all lawful papers, make all rightful oaths, and successors, assigns and nominees to obtain patent protectio incident to said applications to be borne and paid by said assig And I do hereby authorize my attorneys to insert on this deed when known. <u>http://www. //loate</u>) State of California) SS: County of <u>Santa Clana</u>) On <u>NOV2, 2010</u> before me, <u>Santa</u> appeared <u>livas Mohammed</u> , who proved to me on the basis subscribed to the within Instrument and acknowledged to me executed the instrument.	ssignee herein, as assignee of the entire interest therein eirs and assigns do hereby agree and covenant without isional, continuation, reissue and other applications for an of the said assignee or its assigns, to communicate to said and respecting said improvements, whenever requester which any of said applications or patents may become to do generally everything necessary to aid assignee, it on for said improvements in all countries, the expense mee. the filling date and application number of said application (Signature) (Signature) (Signature) (Signature) (State of California that the foregoing paragraph is true ar SALINA DIAZ Commission # 1889526
and the undersigned for me and my legal representatives, he further remuneration, to execute and deliver all original, div Letters Patent on said improvements and all assignments there assignee or its representatives all facts known to the undersig to testify in any interferences or other legal proceedings in involved, to sign all lawful papers, make all rightful oaths, and successors, assigns and nominees to obtain patent protectic incident to said applications to be borne and paid by said assig And I do hereby authorize my attorneys to insert on this deed when known. <u>11/2/3010</u> (Date) State of California) SS: County of <u>Santa Clana</u>) On <u>NOV 2, 2010</u> before me, <u>Santa</u> appeared <u>livas Mohammed</u> , who proved to me on the basis subscribed to the within instrument and acknowledged to m capacity, and that by fully the signature on the instrument the pre- executed the instrument. I certify under PENALTY OF PERJURY under the laws of the S correct.	ssignee herein, as assignee of the entire interest therein eirs and assigns do hereby agree and covenant without visional, continuation, reissue and other applications for each to said assignee or its assigns, to communicate to said aned respecting said improvements, whenever requested which any of said applications or patents may become to do generally everything necessary to aid assignee, it on for said improvements in all countries, the expense mee. the filling date and application number of said application (Signature) (Signature) (Signature) with the entity upon behalf of which the person acte State of California that the foregoing paragraph is true ar SALINA DIAZ

6. ÷

Assignments TESSERA 3-0-618 (2) doc

	former PTO/SB/15 (8-00) Modified LDLK&M Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	TESSERA 3.0-618
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 cert	
STAGED VIA FORMATION FROM BOTH SIDES OF	CHIP
X for which an application for a United States Letters Pat Application Number 12/884,649	ent was filed onSeptember 17, 2010
for which an application for a United States Letters Pate and	nt was executed by me on
Whereas, Tessera Research LLC	ter en
a Limited Liability Company of <u>Delaware</u> herein referred to as ' 3025 Orchard Parkway; San Jose, California 95134	'assignee" whose mailing address is
is desirous of acquiring the entire right, title and interest in the s	ame;
is acknowledged, and other good and valuable consideration assignee my entire right, title and interest for the United St invention and the aforesaid utility patent application and a substitute or reissue applications and patents applied for or g other 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 Trad patents on said improvements or resulting therefrom to said and further remuneration, to execute and deliver all original, div Letters Patent on said improvements and all assignments there assignee or its representatives all facts known to the undersig to testify in any interferences or other legal proceedings in involved, to sign all lawful papers, make all rightful oaths, and successors, assigns and nominees to obtain patent protectio incident to said applications to be borne and paid by said assign	ates of America and all other countries in and to said an original, divisional, continuation, continuation-in-part, granted therefor in the United States of America and all all applications and patents for said invention claiming o any law or treaty, and including the right to claim such lemarks is hereby authorized and requested to issue all assignee herein, as assignee of the entire interest therein; airs and assigns do hereby agree and covenant without isional, continuation, reissue and other applications for of to said assignee or its assigns, to communicate to said aned respecting said improvements, whenever requested, which any of said applications or patents may become to do generally everything necessary to aid assignee, its on for said improvements in all countries, the expenses nee.
And I do hereby authorize my attorneys to insert on this deed when known.	the filing date and application number of said application
11/2 lin	Cine Matchell
	(Signature)
State of California) SS:	(vignatio)
County of Senter clover)	
	that the she executed the same in his her authorized
I certify under PENALTY OF PERJURY under the laws of the scorrect.	State of California that the foregoing paragraph is true and SALINA DIAZ
WITNESS my hand and official seal	Commission # 1889526 Notary Public - California Santa Ciara County My Commic raires May 16, 2014
x *Total of 5 forms are submitted.	

Assignments TESSERA 3:0-6(8(2) doc

	former PTO/SB/15 (8-00) Modified LOLK&M Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	TESSERA 3.0-618
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 certa STAGED VIA FORMATION FROM BOTH SIDES OF	•
x for which an application for a United States Letters Pate	0.01000470040
Application Number 12/884,649	
for which an application for a United States Letters Pater and	it was executed by me on
Whereas,Tessera Research LLC	
a Limited Liability Company of <u>Delaware</u> herein referred to as " 3025 Orchard Parkway; San Jose, California 95134	assignee" whose mäiling address is
is desirous of acquiring the entire right, title and interest in the sa	ame;
is acknowledged, and other good and valuable consideration, assignee my entire right, title and interest for the United Sta invention and the aforesaid utility patent application and al substitute or reissue applications and patents applied for or g other 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, divi Letters 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 v involved, to sign all lawful papers, make all rightful oaths, and t successors, assigns and nominees to obtain patent protection incident to said applications to be borne and paid by said assign	ites of America and all other countries in and to said I original, divisional, continuation, continuation-in-part ranted therefor in the United States of America and a all applications and patents for said invention claiming only law or treaty, and including the right to claim such emarks is hereby authorized and requested to issue a signee herein, as assignee of the entire interest therein irs and assigns do hereby agree and covenant withou sional, continuation, relssue and other applications for of to said assignee or its assigns, to communicate to said respecting said improvements, whenever requested which any of said applications or patents may become to do generally everything necessary to aid assignee, it in for said improvements in all countries, the expense iee.
And I do hereby authorize my attorneys to insert on this deed t when known.	he filing date and application number of said application
11/02/2010 (Date)	Te Spannice Martin
	(Signature)
State of California) SS: County of <u>Santa clara</u>)	
On <u>NOV 2, 2010</u> , before me, <u>Salar</u> appeared <u>Pivush Savalia</u> , who proved to me on the basis of subscribed to the within instrument and acknowledged to me capacity, and that by Gisher signature on the instrument the per executed the instrument.	e that he have executed the same in his her authorized
I certify under PENALTY OF PERJURY under the laws of the S correct,	
WITNESS my hand and official seal.	
(Notary Public)	SALINA DIAZ Commission # 1889526 Notary Public - California Santa Glaza, County
(Notary Public)	Commission # 1889526 Notary Public - California

Assignments TESSERA 10-518 (2).dod