503047834 11/04/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3094433

		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY DA	ТА				
		Name		Execution Date	
BELGACEM HABA				09/29/2010	
ELLIS CHAU				09/24/2010	
WAEL ZOHNI			09/24/2010		
PHILIP DAMBERG				09/24/2010	
RICHARD DEWITT CRIS	P			09/24/2010	
RECEIVING PARTY DAT	A				
Name:	TESSEF	RA RESEARCH LLC			
Street Address:	3025 OF	RCHARD PARKWAY			
City:	SAN JO	SE			
State/Country:	CALIFO	RNIA			
Postal Code:	95134				
Property Type Application Number:		Number			
CORRESPONDENCE DA	TA				
Fax Number:					
		the e-mail address first; if that is ; if that is unsuccessful, it will be			
using a lax number, il pi		1083216057	Sem		
Phone:					
Phone: Email:		kostic@tessera.com			
	j	kostic@tessera.com CHRISTOPHER LATTIN			
Email:	ji (
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> PATENT REEL: 034103 FRAME: 0040

	former PTO/SB/15 (8-00) Modified LDLK&M Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	TESSERA 3.0-625	
Whereas, I, Belgacem Haba	of	
c/o Tessera Research LLC; 3025 Orchard Parkway; San J	ose, California 95134	
hereafter referred to as assignor, have with others invented certai		
IMPEDANCE CONTROLLED PACKAGES WITH MET		
X for which an application for a United States Letters Pater	Contember 18, 2010	
Application Number 12/883,821		
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 "assi	Ignee" whose mailing address is	
3025 Orchard Parkway, San Jose, California 95134		
is desirous of acquiring the entire right, title and interest in the sar	ne;	
assignee my entire right, title and interest for the United Stati invention and the aforesaid utility patent application and all substitute or reissue applications and patents applied for or gra other countries, for said invention, including without limitation a priority or benefit of the aforesaid utility application pursuant to priority or benefit and the Commissioner of Patents and Tradei	original, divisional, continuation, continuation-in-pa anted therefor in the United States of America and ill applications and patents for said invention claimi any law or treaty, and including the right to claim su	
and the undersigned for me and my legal representatives, heir further remuneration, to execute and deliver all original, divisi Letters Patent on said improvements and all assignments thereof assignee or its representatives all facts known to the undersigne to testify in any interferences or other legal proceedings in wi involved, 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 assignee	ignee herein, as assignee of the entire interest there s and assigns do hereby agree and covenant witho ional, continuation, reissue and other applications it to said assignee or its assigns, to communicate to said ad respecting said improvements, whenever requeste hich any of said applications or patents may become o do generally everything necessary to aid assignee, for said improvements in all countries, the expensive.	
and the undersigned for me and my legal representatives, heir further remuneration, to execute and deliver all original, divisi Letters Patent on said improvements and all assignments thereof assignee or its representatives all facts known to the undersigned to testify in any interferences or other legal proceedings in will involved, 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 assigned And I do hereby authorize my attorneys to insert on this deed the when known.	ignee herein, as assignee of the entire interest there s and assigns do hereby agree and covenant witho ional, continuation, reissue and other applications it to said assignee or its assigns, to communicate to said ad respecting said improvements, whenever requeste hich any of said applications or patents may become o do generally everything necessary to aid assignee, for said improvements in all countries, the expensive.	
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and the undersigned for me and my legal representatives, heir further remuneration, to execute and deliver all original, divisi Letters Patent on said improvements and all assignments thereof assignee or its representatives all facts known to the undersigned to testify in any interferences or other legal proceedings in will involved, 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 assigned And I do hereby authorize my attorneys to insert on this deed the when known.	ignee herein, as assignee of the entire interest there is and assigns do hereby agree and covenant without ional, continuation, reissue and other applications it to said assignee or its assigns, to communicate to said ad respecting said improvements, whenever requested hich any of said applications or patents may become or do generally everything necessary to aid assignee, for said improvements in all countries, the expensive. The filing date and application number of said application be do generally everything necessary to aid assignee, for said improvements in all countries, the expensive. The filing date and application number of said application is a use of the said application number of said application is the person whose name is subscribed to the with in his authorized capacity, and that by his signature person acted, executed the instrument.	
and the undersigned for me and my legal representatives, heir further remuneration, to execute and deliver all original, divisi Letters Patent on said improvements and all assignments thereof assignee or its representatives all facts known to the undersigned to testify in any interferences or other legal proceedings in will involved, 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 assigned And I do hereby authorize my attorneys to insert on this deed the when known. $\frac{o 9 - 29 - 2010}{(Date)}$ State of California) SS: County of Santa Clara) On Sept 29, 2010 before me, Salina Diaz who proved to me on the basis of satisfactory evidence to be instrument and acknowledged to me that he executed the same the instrument the person, or the entity upon behalf of which the	ignee herein, as assignee of the entire interest there is and assigns do hereby agree and covenant without ional, continuation, reissue and other applications it to said assignee or its assigns, to communicate to said ad respecting said improvements, whenever requested hich any of said applications or patents may become or do generally everything necessary to aid assignee, for said improvements in all countries, the expensive. The filing date and application number of said application be do generally everything necessary to aid assignee, for said improvements in all countries, the expensive. The filing date and application number of said application is a use of the said application number of said application is the person whose name is subscribed to the with in his authorized capacity, and that by his signature person acted, executed the instrument.	
and the undersigned for me and my legal representatives, heir further remuneration, to execute and deliver all original, divisi Letters Patent on said improvements and all assignments thereof assignee or its representatives all facts known to the undersigned to testify in any interferences or other legal proceedings in will involved, 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 assigned And I do hereby authorize my attorneys to insert on this deed the when known. $\frac{09 - 29 - 2010}{(Date)}$ State of California) SS: County of Santa Clara) On <u>Sect 29, 2010</u> , before me, Salina Diaz who proved to me on the basis of satisfactory evidence to be instrument and acknowledged to me that he executed the same the instrument the person, or the entity upon behalf of which the I certify under PENALTY OF PERJURY under the laws of the Sta correct. WITNESS-my hand and official seal. WITNESS-my hand and official seal.	ignee herein, as assignee of the entire interest there s and assigns do hereby agree and covenant witho ional, continuation, reissue and other applications of to said assignee or its assigns, to communicate to s do generally everything necessary to aid assignee, for said improvements in all countries, the expensive e. The filing date and application number of said application be do generally everything necessary to aid assignee, for said improvements in all countries, the expensive e. The filing date and application number of said application be do generally everything necessary to aid assignee, for said improvements in all countries, the expensive e. The filing date and application number of said application be do generally everything necessary to aid assignee, for said improvements in all countries, the expensive e. The filing date and application number of said application application number of said application are determined as a subscribed to the with in his authorized capacity, and that by his signature person acted, executed the instrument. ate of California that the foregoing paragraph is true a SALINA DIAZ Commission # 1889526 Notary Public - California Santa Ciara County	

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	former PTO/SB/15 (8-00) Modified L Docket Number (Optional)	DI.K&M
ASSIGNMENT OF UTILITY APPLICATION	TESSERA 3.0-625	
Whereas, I,Ellis Chau		of
c/o Tessera Research LLC; 3025 Orchard Parkway; San J	lose, California 95134	
hereafter referred to as assignor, have with others invented certal	in new and useful improvements in	
IMPEDANCE CONTROLLED PACKAGES WITH MET	AL SHEET OR 2-LAYER RDL	
x for which an application for a United States Letters Pater Application Number 12/883,821	nt was filed on September 16, 2010	
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 <u>Delaware</u> herein referred to as "assi	gnee" whose mailing address is	
3025 Orchard Parkway; San Jose, California 95134		
is desirous of acquiring the entire right, title and interest in the sai	анс,	
NOW, THEREFORE, in consideration of the sum of <u>one</u> d is acknowledged, and other good and valuable consideration, 1 assignee my entire right, title and interest for the United Stat invention and the aforesaid utility patent application and all substitute or reissue applications and patents applied for or gra other countries, for said invention, including without limitation a priority or benefit of the aforesaid utility application pursuant to priority or benefit and the Commissioner of Patents and Traden patents on said improvements or resulting therefrom to said ass and the undersigned for me and my legal representatives, heir further remuneration, to execute and deliver all original, divisi Letters Patent on said improvements and all assignments thereof assignee or its representatives all facts known to the undersigned to testify in any interferences or other legal proceedings in wi involved, 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 assignee And I do hereby authorize my attorneys to insert on this deed th when known.	es of America and all other countries in and original, divisional, continuation, continuation anted therefor in the United States of America all applications and patents for said invention any law or treaty, and including the right to cla marks is hereby authorized and requested to ignee herein, as assignee of the entire interest is and assigns do hereby agree and covenant ional, continuation, reissue and other applicat f to said assignee or its assigns, to communicate drespecting said improvements, whenever re- nich any of said applications or patents may o do generally everything necessary to aid assig for said improvements in all countries, the e- ne.	to said to said ⊢in-part, and all claiming im such issue all therein; without ions for a to said quested, become gnee, its xpenses
o c la si la si	and the second sec	
09/24/2010		
(Date)	(Date)	
State of California) SS:		
County of <u>Santa Clara</u>)		
	, Notary Public, personally appeared Ellis Ch	su, who
On Sept 24, 2010 , before me, Salina Diaz	son whose name is subscribed to the within ins	strument
proved to me on the basis of satisfactory evidence to be the per		
proved to me on the basis of satisfactory evidence to be the per and acknowledged to me that he executed the same in his a	on acted, executed the instrument.	
proved to me on the basis of satisfactory evidence to be the per- and acknowledged to me that he executed the same in his a instrument the person, or the entity upon behalf of which the pers I certify under PENALTY OF PERJURY under the laws of the Sta	on acted, executed the instrument.	
proved to me on the basis of satisfactory evidence to be the per and acknowledged to me that he executed the same in his a instrument the person, or the entity upon behalf of which the pers	on acted, executed the instrument.	

	former PTO/SB/15 (8-00) Modified LDLK&M Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	TESSERA 3.0-625
	-4
Whereas, I, <u>Wael Zohni</u> c/o Tessera Research LLC; 3025 Orchard Parkway; San Jose	California 95134
hereafter referred to as assignor, have with others invented certain ne	
IMPEDANCE CONTROLLED PACKAGES WITH METAL	
x for which an application for a United States Letters Patent w	vas filed onSeptember 16, 2010
Application Number 12/883,821 for which an application for a United States Letters Patent was	s executed by me on
and	,
Whereas, Tessera Research LLC	a vyhen a positietus vyhen katala a teesa a teesa teesa teisa a teesa teesa teesa teesa teesa teesa teesa teesa
a limited liability company of <u>Delaware</u> herein referred to as "assigned 3025 Orchard Parkway; San Jose, <u>California</u> 95134	e" whose mailing address is
is desirous of acquiring the entire right, title and interest in the same;	
is acknowledged, and other good and valuable consideration, I as assignee my entire right, title and interest for the United States of invention and the aforesaid utility patent application and all orig substitute or reissue applications and patents applied for or grante other countries, for said invention, including without limitation all a priority or benefit of the aforesaid utility application pursuant to any priority or benefit and the Commissioner of Patents and Trademark patents on said improvements or resulting therefrom to said assigned and the undersigned for me and my legal representatives, heirs are further remuneration, to execute and deliver all original, divisional Letters Patent on said improvements and all assignments thereof to a assignee or its representatives all facts known to the undersigned re to testify in any Interferences or other legal proceedings in which involved, to sign all lawful papers, make all rightful oaths, and to do successors, assigns and nominees to obtain patent protection for incident to said applications to be bome 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 all pplications and patents for said invention claiming law or treaty, and including the right to claim such ks is hereby authorized and requested to issue all ee 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, o any of said applications or patents may become generally everything necessary to aid assignee, its said improvements in all countries, the expenses
And I do hereby authorize my attorneys to insert on this deed the fil when known.	ling date and application number of said application
9/24/2010	Walkol.
(Date)	(Signature)
State of California) SS:	
County ofSanta Clara)	
Sept-24, 2010 hoters ma Sating Dias Ma	stary Public, personally appeared Wael Zohni, who
On <u>On</u> before me, Salina Diaz, Ne proved to me on the basis of satisfactory evidence to be the person and acknowledged to me that he executed the same in his auth instrument the person, or the entity upon behalf of which the person a	whose name is subscribed to the within instrument
I certify under PENALTY OF PERJURY under the laws of the State correct.	of California that the foregoing paragraph is true and
WITNESS.my hand and official seal.	SALINA DIAZ Commission # 1889526 Notary Public - California Santa Clara County My Compost Expires May 16, 2014
x *Total of 5 forms are submitted.	

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)	
	TESSERA 3.0-625	
Whereas, I, Philip Damberg		-6
c/o Tessera Research LLC; 3025 Orchard Parkway; Sar	lose California 95134	of
nereafter referred to as assignor, have with others invented cert		
IMPEDANCE CONTROLLED PACKAGES WITH ME		
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
X for which an application for a United States Letters Pal Application Number <u>12/883,821</u>		(mmana) i ipi
for which an application for a United States Letters Pate and	nt was executed by me on	enconne i
Whereas, Tessera Research LLC		
a limited liability company of <u>Delaware</u> herein referred to as "as 3025 Orchard Parkway; San Jose, California 95134	signee" whose mailing address is	
is desirous of acquiring the entire right, title and interest in the s	ame;	
substitute or reissue applications and patents applied for or o	ates of America and all other countries in all original, divisional, continuation, continua pranted therefor in the United States of Ame	tion-in-par
And I do hereby authorize my attorneys to insert on this deed	Il original, divisional, continuation, continua granted therefor in the United States of Ame all applications and patents for said inventi- o any law or treaty, and including the right to lemarks is hereby authorized and requested signee herein, as assignee of the entire inte- eirs and assigns do hereby agree and cover isional, continuation, reissue and other app of to said assignee or its assigns, to commun- ned respecting said improvements, whenever which any of said applications or patents m to do generally everything necessary to aid a on for said improvements in all countries, th- nee.	ation-in-par rica and a ion claimin claim suc to issue a rest thereir nant withou lications fc icate to sai r requested ay becom- issignee, it e expense
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 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 undersig to testify in any interferences or other legal proceedings in v 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 bome and paid by said assign	Il original, divisional, continuation, continua granted therefor in the United States of Ame all applications and patents for said inventi- o any law or treaty, and including the right to lemarks is hereby authorized and requested signee herein, as assignee of the entire inte- eirs and assigns do hereby agree and cover isional, continuation, reissue and other app of to said assignee or its assigns, to commun- ned respecting said improvements, whenever which any of said applications or patents m to do generally everything necessary to aid a on for said improvements in all countries, th- nee.	ation-in-pan rica and a ion claiming claim suci to issue a rest therein nant withou lications fo icate to said r requested asy become issignee, its e expenses
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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 and the undersigned for me and my legal representatives, he further remuneration, to execute and deliver all original, dividents 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 vinvolved, to sign all lawful papers, make all rightful oaths, and successors, assigns and nominees to obtain patent protectio incident to said applications to be bome and paid by said assign And I do hereby authorize my attorneys to insert on this deed when known.	Il original, divisional, continuation, continua granted therefor in the United States of Ame all applications and patents for said inventi- o any law or treaty, and including the right to lemarks is hereby authorized and requested signee herein, as assignee of the entire inte- eirs and assigns do hereby agree and cover isional, continuation, reissue and other app of to said assignee or its assigns, to commun- ned respecting said improvements, whenever which any of said applications or patents m to do generally everything necessary to aid a on for said improvements in all countries, th- nee.	ation-in-pan rica and a ion claiming claim suci to issue a rest therein nant withou lications fo icate to said r requested asy become issignee, its e expenses
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ASSIGNMENT OF UTILITY APPLICATION	TESSERA 3.0-625	
Whereas, t, Richard Dewitt Crisp	of	
c/o Tessera Research LLC; 3025 Orchard Parkway; San Jo	se, California 95134	
hereafter referred to as assignor, have with others invented certain	new and useful improvements in	
IMPEDANCE CONTROLLED PACKAGES WITH META	L SHEET OR 2-LAYER RDL	
x         for which an application for a United States Letters Patent           Application Number         12/082 821	was filed on	
Application Number <u>12/883,821</u> for which an application for a United States Letters Patent w	vas executed by me on	
and		
Whereas, Tessera Research LLC	a a construction de la construction	
a limited liability company of <u>Delaware</u> herein referred to as "assign 3025 Orchard Parkway; San Jose, California 95134	nee" whose mailing address is	
is desirous of acquiring the entire right, title and interest in the same	e;	
is acknowledged, and other good and valuable consideration, I a assignee my entire right, title and interest for the United States invention and the aforesaid utility patent application and all of substitute or reissue applications and patents applied for or gran other countries, for said invention, including without limitation all priority or benefit of the aforesaid utility application pursuant to ar priority or benefit and the Commissioner of Patents and Tradem patents on said improvements or resulting therefrom to said assig and the undersigned for me and my legal representatives, heirs further remuneration, to execute and deliver all original, division Letters Patent on said improvements and all assignments thereof to assignee or its representatives all facts known to the undersigned to testify in any interferences or other legal proceedings in whit involved, to sign all lawful papers, make all rightful oaths, and to of successors, assigns and nominees to obtain patent protection for incident to said applications to be borne and paid by said assignee	s of America and all other countries in and to said original, divisional, continuation, continuation-in-part, ited therefor in the United States of America and all applications and patents for said invention claiming by law or treaty, and including the right to claim such arks is hereby authorized and requested to issue all nee herein, as assignee of the entire interest therein; and assigns do hereby agree and covenant without nal, continuation, reissue and other applications for o said assignee or its assigns, to communicate to said respecting said improvements, whenever requested, ch any of said applications or patents may become to generally everything necessary to aid assignee, its or said improvements in all countries, the expenses	
And I do hereby authorize my attorneys to insert on this deed the when known.		
Sept 24,2010 0	(Signature)	
State of California ) SS:	2	
County of Santa Clara)		
5 24 700		
On <u>Crisp</u> , who proved to me on the basis of satisfactory evidence to b	Notary Public, personally appeared Richard Dewitt 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 1	
the instrument the person, or the entity upon behalf of which the pe	erson acted, executed the instrument.	
I certify under PENALTY OF PERJURY under the laws of the State	e of California that the foregoing paragraph is true and	
Correct. WITNESS my hand and official seal. Contract And	SALINA DIAZ Commission # 1889526 Notary Public - California Santa Clara County My Comm (Expises Max 188, 2014	
x *Total of 5 forms are submitted.		