507395912 07/20/2022

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7442838

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HIROAKI SATO	03/09/2012
TECK-GYU KANG	05/01/2012
BELGACEM HABA	01/18/2012
PHILIP R. OSBORN	05/02/2012
WEI-SHUN WANG	03/13/2012
ELLIS CHAU	03/28/2012
ILYAS MOHAMMED	03/15/2012
NORIHITO MASUDA	05/05/2012
KAZUO SAKUMA	05/01/2012
KIYOAKI HASHIMOTO	04/30/2012
KUROSAWA INETARO	05/01/2012
TOMOYUKI KIKUCHI	05/02/2012

RECEIVING PARTY DATA

Name:	TESSERA, INC.
Street Address:	3025 ORCHARD PARKWAY
City:	SAN JOSE
State/Country:	CALIFORNIA
Postal Code:	95134

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17867554

CORRESPONDENCE DATA

Fax Number:

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.

Email: kristen.sison@hglaw.com
Correspondent Name: HALEY GUILIANO LLP

Address Line 1: 111 NORTH MARKET STREET, SUITE 900

Address Line 4: SAN JOSE, CALIFORNIA 95113

PATENT REEL: 060570 FRAME: 0645

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/Kristen E. Sison/		
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former PTO/SB/15 (8-00) Modified LOLK&M Docket Number (Optional) ASSIGNMENT OF UTILITY APPLICATION **TESSERA 3.0-647** Whereas, I. Hiroaki Sato Yokohama Business Park, Technical Center; 134 Goudo-cho, Hodogaya-Ku; Yokohama; JAPAN hereafter referred to as assignor, have with others invented certain new and useful improvements in PACKAGE-ON-PACKAGE ASSEMBLY WITH WIRE BONDS TO ENCAPSULATION SURFACE for which an application for a United States Letters Patent was filed on Application Number 13/462,158 for which an application for a United States Letters Patent was executed by me on Whereas, Tessera, Inc. a corporation of Delaware herein referred to as "assignee" whose mailing address is 3025 Orchard Parkway; San Jose, California 95134 is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesald 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 arid 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 the filing date and application number of said application when known. (Signature) State of California 88 County of Salma Diaz, Notury Public before me, appeared Hiroaki Sato, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that (he) she executed the same in (his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and SALINA DIAZ hand an@ official seal. Commission # 1889528 Notary Public - Galifornia Santa Clara County
My CBTARY EXPIRES May 16, 2014 (Notary Public)

TESSER 2507 - Assignment of Othlity App (PTO 8B-15) - Multiple Inventors - No Provisional Filed - Ca.DOC

forms are submitted.

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former PTO/SB/15 (8-00) Modified LDLK&M Docket Number (Optional) ASSIGNMENT OF UTILITY APPLICATION TESSERA 3.10-647 Teck-Gyu Kang Whereas, I, c/o Tessera, Inc.; 3026 Orchard Parkway; San Jose, California 96134 hereafter referred to as assignor, have with others invented certain new and useful improvements in PACKAGE-ON-PACKAGE ASSEMBLY WITH WIRE BONDS TO ENCAPSULATION SURFACE for which an application for a United States Letters Patent was filed on May 2, 2012 Application Number 13/462,158 for which an application for a United States Letters Patent was executed by me on and Whereas, Tessera, Inc. a corporation of Delaware herein referred to as "assignee" whose mailing address is 3025 Orchard Parkway; San Jose, California 95134 is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting 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 caths, 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 The Charles Sandaning State of California) SS:
County of Sasta Clara) Salina Diaz, Wotary Puono _____before me, _ appeared Teck-Gyu Kang, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he same in in instrument and acknowledged to me that he same in instrument and acknowledged to me that he same in the same including capacity, and that by histher 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

(Notary Possilo)

WITNESS my hand and official seal

forms are submitted.

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SALINA DIAZ

Commission # 1889526 Notary Public - California Santa Clara County My Commi Expires May 16, 2014

former PTO/88/15 (8-00) Modified LDLK&M Docket Number (Optional) ASSIGNMENT OF UTILITY APPLICATION TESSERA 3.0-647 Belgacem Haba Whereas, I. c/o Tessera, Inc., 3025 Orchard Parkway; San Jose, California 95134 hereafter referred to as assignor, have with others invented certain new and useful improvements in PACKAGE-ON-PACKAGE ASSEMBLY WITH WIRE BONDS TO ENCAPSULATION SURFACE $\left| \mathrm{K} \right|$ for which an application for a United States Letters Patent was filed on $\left| \mathrm{May} \right| 2$, $\left| 2012 \right|$ Application Number 13/462,158 for which an application for a United States Letters Patent was executed by me on Whereas, Tessera, Inc. a corporation of Delaware herein referred to as "assignee" whose mailing address is 3025 Orchard Parkway; San Jose, California 95134 is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or relssue 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 aforesald 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 the filing date and application number of said application when known. State of California county of Santa Clara before me, <u>Faren A Perricons</u>, Notary Public personally appeared <u>Belgacem Haba,</u> who proved to me on the basis of satisfoctory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in/his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of matternational design of the state of matternation and the state of matternation of the state o KAREN A. PERRICONE correct. Dommission # 1890143 WITNESS my hand and official seal. Notary Public - California Santa Clara County My Comm. Expires May 16, 2014 (Notary Public)

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200 100 100 100 100 100 100 100 100 100	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	TESSERA 3.10-647	
Whereas, I, Phillip R. Osborn (การเกาะสาร Corporation) 2702 Orchard Parkway; San Jose, California 95134		
hereafter referred to as assignor, have with others invented certain new and useful improvements in PACKAGE-ON-PACKAGE ASSEMBLY WITH WIRE BONDS TO ENCAPSULATION SURFACE		
for which an application for a United States Letters Patent was filed on May 2 , 2012 Application Number $13/462$, 158		
for which an application for a United States Letters Pater and	nt was executed by me on	
Whereas, Tessera, Inc. a corporation of <u>Delaware</u> herein referred to as "assignee" whose 3025 Orchard Parkway; San Jose, California 95134	se 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 doltars (\$ 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 relissue 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 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	
2 MAY 2012	(Signature)	
(Date) State of California) SS: County of Land)	(Signature)	
1 m / m / m / m		
On 5/2/2017 before me, 5//	ore Chief Makey Rubble person whose name is	
appeared Philip R. Osborn, 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/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.		
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct, SALINA DIAZ		
WITNESS my hand and official seal Commission # 1889526 Notary Public - California Santa Clara County (Notary Public) (Notary Public)		
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NAMANKAN KANAN	former PTO/S9/15 (8-00) Modified LDLK&M	
and one one of the state of the	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	TESSERA 3.0-647	
Whereas, I, Wei-Shun Wang	of	
Tessera, Inc.; 3025 Orchard Parkway; San Jose, California 95134		
hereafter referred to as assignor, have with others invented cert		
PACKAGE-ON-PACKAGE ASSEMBLY WITH WIRE	The state of the s	
X for which an application for a United States Letters Patent was filed on <u>May 2, 2012</u> Application Number <u>13/462,158</u>		
for which an application for a United States Letters Pater and	nt was executed by me on,	
Whereas, Tessera, Inc.		
a corporation of <u>Delaware</u> herein referred to as "assignee" whose 3025 Orchard Parkway; San Jose, California 95134	ee maliing 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 is acknowledged, and other good and valuable consideration, assignee my entire right, title and interest for the United Stainvention and the aforesaid utility patent application and a 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 Tradipatents 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, divideters 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 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 borne and paid by said assigns.	I as assignor hereby sell, assign and set over to said tates of America and all other countries in and to said il 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, relssue and other applications for of to said assignee or its assigns, to communicate to said ned respecting said improvements, whenever requested, which any of said applications or patents may become to do generally everything necessary to aid assignee, its in for said improvements in all countries, the expenses nee.	
And I do heraby authorize my attorneys to Insert on this deed the filling date and application number of said application when known.		
3/13/2012	Ver flow Wang	
(Date)	(Signature)	
State of California) SS:	-	
County of Dan ta Clarta)	an ras Oh sakaren Barkasah	
appeared Wei-Shun Wang, who proved to me on the basis		
subscribed to the within instrument and acknowledged to me capacity, and that by his regulature on the instrument the persecuted the instrument.	s that (ne)same executed the same in quarter authorized rson, or the entity upon behalf of which the person acted,	
I certify under PENALTY OF PERJURY under the laws of the Scorrect.	Itate of California that the foregoing paragraph is true and	
WITNESS my hand and official seal Commission # 1889526 Notary Public - California Santa Ciara County		
(Notary Public)	My Comunication and 16, 2014	

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	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	TESSERA 3.0-647	
Whereas, I, Ellis Chau	of	
c/o Tessera, Inc.; 3025 Orchard Parkway; San Jose, Cali		
hereafter referred to as assignor, have with others invented cert		
PACKAGE-ON-PACKAGE ASSEMBLY WITH WIRE	A STATE OF THE PARTY OF THE PAR	
$rac{X}{X}$ for which an application for a United States Letters Patent was filed on $rac{May\ 2,\ 2012}{13/462,158}$		
for which an application for a United States Letters Pater	nt was executed by me on	
and	*	
Whereas, Tessera, Inc.		
a corporation of <u>Delaware</u> herein referred to as "assignee" who 3025 Orchard Parkway; San Jose, California 95134	se 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 assigner 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, continuation, 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 caths, 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 when known. $\mathcal{E}\mathcal{L}$	the filing date and application number of said application	
	and the same of th	
3/28/20/2 (Date) State of California) SS: County of Arabbase)	And the state of t	
(Date)	(Signature)	
State of California , , ,) SS:		
County of Janta Clara)		
On 3/28/20/2 before me, Se	alina Diaz., Motary Public personally	
appeared Ellis Chau, who proved to me on the basis of subscribed to the within instrument and acknowledged to me capacity, and that by his/her signature on the instrument the pe executed the instrument.	atisfactory evidence to be the person whose name is e that(he)she executed the same in his/her authorized	
I certify under PENALTY OF PERJURY under the taws of the S correct.		
WITNESS my hand and official seal.	SALINA DIAZ Commission # 1899526 Notary Public - California	
(Notary Public)	Santa Clara County My Comth Express Mily 16, 2014	
X *Total of 7 forms are submitted.	A CONTRACTOR OF THE CONTRACTOR	

former PTO/8B/16 (8-00) Modified LDLK&M Docket Number (Optional) ASSIGNMENT OF UTILITY APPLICATION TESSERA 3.0-647 Whereas, I. Ilvas Mohammed c/o Tessera, Inc.; 3025 Orchard Parkway; San Jose, California 95134 hereafter referred to as assignor, have with others invented certain new and useful improvements in PACKAGE-ON-PACKAGE ASSEMBLY WITH WIRE BONDS TO ENCAPSULATION SURFACE for which an application for a United States Letters Patent was filed on 13/462,158 Application Number for which an application for a United States Letters Patent was executed by me on and Whereas, Tessera, Inc. a corporation 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 909 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, helrs 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 caths, 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. State of California County of _, before me, 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 networked the same in fig/her-authorized capacity, and that by higher 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. SALINA DIAZ WITNESS rby hand and official seal Commission # 1889526 Notary Public - California (NS PARTY CLEAR)County My Comm. Expires May 16, 2014 (Notary Public) *Total of forms are submitted. х

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

THE STATE OF THE RESIDENCE AND	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	TESSERA 3.10-647	
Whereas, I, Norihito Masuda	of	
Yokohama Business Park, Technical Center; 134 Goude Kanagawa; 240-0005; JAPAN	o-cho, Hodogaya-Ku, Yokoham-shi;	
hereafter referred to as assignor, have with others invented certain new and useful improvements in PACKAGE ON-PACKAGE ASSEMBLY WITH WIRE BONDS TO ENCAPSULATION SURFACE		
X for which an application for a United States Letters Patent was filed on May 2, 2012 Application Number 13/462,158		
for which an application for a United States Letters Pater	nt was executed by me on	
for which an International Application was filed on	ganganhakananggananananananahkingkikindusunun	
, designating the United	•	
And , doing not office		
Whereas, Tessera, Inc.		
a corporation of <u>Delaware</u> herein referred to as "assignee" who	se mailing address is	
3025 Orchard Parkway; San Jose, California 95134	A PA A V	
is desirous of acquiring the entire right, title and interest in the sa	arris,	
NOW, THEREFORE, in consideration of the sum of one dollar (\$ 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, 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 all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, 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 assignse 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 inc		
And I do hereby authorize my attomeys to insert on this deed th when known.		
May. 5, 2012	realisto Menda	
Date	Norihito Masuda	
nao masuda		
mai masuda Witness		
Neo Masuda		
Typed Name of Witness		
x *Total of 12 forms are submitted.		

Docket Number (Optional) ASSIGNMENT OF UTILITY APPLICATION TESSERA 3,10-647 Whereas, I, Kazuo Sakuma Yokohama Business Park, Technical Center; 134 Goudo-cho, Hodogaya-Ku, Yokoham-shl; Kanagawa; 240-0005; JAPAN hereafter referred to as assigner, have with others invented certain new and useful improvements in PACKAGE-ON-PACKAGE ASSEMBLY WITH WIRE BONDS TO ENCAPSULATION SURFACE X for which an application for a United States Letters Patent was filed on May 2, 2012 Application Number 13/462,158 for which an application for a United States Letters Patent was executed by me on for which an International Application was filed on ___, designating the United States. And Whereas, Tessera, Inc. a corporation 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 dollar (\$ 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, substitute or relesue 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 all claims for damages by reason of past infilingement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, 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 paths, 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 filling date and application number of said application Kazuo Sakuma

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forms are submitted.

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ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) TESSERA 3.10-647	
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Whereas, I, Kiyoaki Hashimoto Yokohama Business Park, Technical Center: 134 Goudo-cho, Hodogaya-Ku, Yokoham-shi;		
токопата business Park, тесплісаі Center: 134 Goude Kanagawe: 240-0005; JAPAN	-cno, monogaya-Nu, Yokonam-shi;	***************************************
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Whereas, Tessers, Inc.		_
a corporation of <u>Delaware</u> herein referred to as "assignee" whos	e mailing address is	- Angelogia
3025 Orchard Parkway; San Jose, California 95134	ppinessanide-respondences principal and respondence of the control	-
is desirous of acquiring the entire right, title and interest in the se	me;	
Is acknowledged, and other good and valuable consideration, I assignee my entire right, title and interest for the United State invention and the aforesaid utility patent application and all of applications and patents applied for or granted therefor in the said invention, including without limitation all applications and pithe aforesaid utility application pursuant to any law or treaty, an infringement with the right to sue for and collect the same for its legal representatives, and including the right to claim such prices are series, as assignee of the entire interest if representatives, heirs and assigns do hereby agree and covena all original, divisional, continuation, reissue and other applications assignments thereof to said assignee or its assigns, to community to the undersigned respecting said improvements, when legal proceedings in which any of said applications or patents all rightful oaths, and to do generally everything necessary to a obtain patent protection for said improvements in all countries, I and paid by said assignee. And I do hereby authorize my atterneys to insert on this deed the	as of America and all other countries in and riginal, divisional, continuation, substitute or United States of America and all other count attents for said invention claiming priority or be ad including all claims for damages by reason sown use and the use of its successors, assig other or benefit and the Commissioner of Pate when the said improvements or resulting there herein; and the undersigned for me and me in without further remuneration, to execute and one for Letters Patent on said improvements incate to said assignee or its representatives : ever requested, to testify in any interferences or may become involved, to sign all lewful papers tid assignee, its successors, assigns and nomi the expenses incident to said applications to be	to said reissue ries, for ries, and all all facts or other a, make inses to e borne
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Date	Kiyoaki Hashimoto	A CONTRACTOR OF THE CONTRACTOR
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	Docket Number (Optienal)
ASSIGNMENT OF UTILITY APPLICATION	TESSERA 3.10-647
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Whereas, I, Kurosawa Inetaro	of .
Yokohama Business Park, Technical Center; 134 Goude	o-cho, Hodogaya-Ku, Yokoham-shi;
Kanagawa; 240-0005; JAPAN	
hereafter referred to as assignor, have with others invented certs PACKAGE-ON-PACKAGE ASSEMBLY WITH WIRE E SURFACE	BONDS TO ENCAPSOLATION
XX for which an application for a United States Letters Pate	ent was filed on May 2, 2012
Application Number 13/462.158	PARTICIPATION OF THE PROPERTY OF THE PARTICIPATION
for which an application for a United States Letters Pater	nt was executed by me on ,
for which an International Application was filed on	, 35
, designating the United	States.
And	
Whereas, Tessera, Inc.	
a corporation of <u>Delaware</u> herein referred to as "assignee" who	
3025 Orchard Parkway; San Jose, California 95134 is destrous of acquiring the entire right, title and interest in the s	ame:
assignee my enire right, title and interest for the United Sta- Invention and the aforesald utility patent application and all applications and patents applied for or granted therefor in the said invention, including without limitation all applications and the aforesaid utility application pursuant to any law or treaty, a infringement with the right to sue for and collect the same for i legal representatives, and including the right to claim such pr Trademerks is hereby authorized and requested to issue all p said assignee herein, as assignee of the entire interest representatives, heirs and assigns do hereby agree and coven- all original, divisional, continuation, reissue and other applica assignments thereof to said assignee or its assigns, to comm known to the undersigned respecting said improvements, whe legal proceedings in which any of said applications or patents all rightful oaths, and to do generally everything necessary to obtain patent protection for said improvements in all countries and paid by said assignee. And I do hereby authorize my attorneys to insert on this deed t when known.	original, divisional, continuation, substitute or resister is united States of America and all other countries, for patents for said invention claiming priority or benefit of and including all claims for damages by reason of past its own use and the use of its successors, assigns and forly or benefit and the Commissioner of Patents and attents on said improvements or resulting therefrom to therein; and the undersigned for me and my legal ant without further remuneration, to execute and deliver titions for Letters Patent on said improvements and all unicate to said assignee or its representatives all facts may become involved, to sign all lawful papers, make aid assignee, its successors, assigns and nominees to, the expenses incident to said applications to be borne.
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May 01. 2012	Kurasawa inetara
Mizieki Karosawa Witness Mizieki Kierasawa Typed Name of Witness	
tTotal of 42 forme are submitted	######################################

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	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	TESSERA 3.10-647	
Whereas, I, Tornoyuki Kikuchi		
Yokohama Business Park, Technical Center; 134 Goudo-cho, Hodogaya-Ku, Yokoham-shi;		
Kanagawa; 240-0005; JAPAN		
hereafter referred to as assignor, have with others invented certain new and useful improvements in PACKAGE-ON-PACKAGE ASSEMBLY WITH WIRE BONDS TO ENCAPSULATION SURFACE		
Tor which an application for a United States Letters Patent was filed on May 2, 2012		
Application Number 13/462,158		
for which an application for a United States Letters Pater	nt was executed by me on	
for which an International Application was filed on	, as	
, designating the United	l States.	
And		
Whereas, Tessera, Inc.		
a corporation of <u>Delaware</u> herein referred to as "assignee" who	se mailing address is	
3025 Orchard Parkway; San Jose, California 95134		
is desirous of acquiring the entire right, title and interest in the s	ame,	
NOW, THEREFORE, in consideration of the sum of <u>one</u> 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 applications and patents applied for or granted therefor in the said invention, including without limitation all applications and the aforesaid utility application pursuant to any law or treaty, a infringement with the right to sue for and collect the same for it legal representatives, and including the right to claim such provided and requested to issue all paid assignee herein, as assignee of the entire interest representatives, heirs and assignee of the entire interest all original, divisional, continuation, reissue and other applications assignments thereof to said assignee or its assigns, to commit known to the undersigned respecting said improvements, where legal proceedings in which any of said applications or patents all rightful caths, and to do generally everything necessary to obtain patent protection for said improvements in all countries, and paid by said assignee.	I as assignor hereby sell, assign and set over to said tes of America and all other countries in and to said original, divisional, continuation, substitute or reissue. United States of America and all other countries, for patents for said invention claiming priority or benefit of and including all claims for damages by reason of past ts own use and the use of its successors, assigns and lority or benefit and the Commissioner of Patents and satents on said improvements or resulting therefrom to therein; and the undersigned for me and my legal and without further remuneration, to execute and deliver tions for Letters Patent on said improvements and all unicate to said assignee or its representatives all facts never requested, to testify in any interferences or other may become involved, to sign all fawful papers, make aid assignee, its successors, assigns and nominees to the expenses incident to said applications to be borne	
And I do hereby authorize my attorneys to insert on this deed to when known. May. 2. 20/2 Date May. 2. 20/2 Witness Ayano KTKUChi	he filling date and application number of said application January August 1	
Date	Tomoyuki Kikuchi	
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AYANO KIKUCHI		
Typed Name of Witness		