

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7442838

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
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
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TESSERA, INC.
<b>Street Address:</b>	3025 ORCHARD PARKWAY
<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95134
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17867554
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>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.</i>	
<b>Email:</b>	kristen.sison@hglaw.com
<b>Correspondent Name:</b>	HALEY GUILIANO LLP
<b>Address Line 1:</b>	111 NORTH MARKET STREET, SUITE 900
<b>Address Line 4:</b>	SAN JOSE, CALIFORNIA 95113

<b>ATTORNEY DOCKET NUMBER:</b>	001443-0065-109
<b>NAME OF SUBMITTER:</b>	KRISTEN E. SISON
<b>SIGNATURE:</b>	/Kristen E. Sison/
<b>DATE SIGNED:</b>	07/20/2022
<b>Total Attachments: 12</b> source=001443-0065-109-Assignment (Inv-TI)#page1.tif source=001443-0065-109-Assignment (Inv-TI)#page2.tif source=001443-0065-109-Assignment (Inv-TI)#page3.tif source=001443-0065-109-Assignment (Inv-TI)#page4.tif source=001443-0065-109-Assignment (Inv-TI)#page5.tif source=001443-0065-109-Assignment (Inv-TI)#page6.tif source=001443-0065-109-Assignment (Inv-TI)#page7.tif source=001443-0065-109-Assignment (Inv-TI)#page8.tif source=001443-0065-109-Assignment (Inv-TI)#page9.tif source=001443-0065-109-Assignment (Inv-TI)#page10.tif source=001443-0065-109-Assignment (Inv-TI)#page11.tif source=001443-0065-109-Assignment (Inv-TI)#page12.tif	

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) TESSERA 3.0-647
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Whereas, I, Hiroaki Sato of 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 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 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.

3/9/12 (Date) [Signature] (Signature)

State of California ) SS:  
 County of Santa Clara )

On 3/9/2012 before me, Salina Diaz, Notary Public personally 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 executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[Signature]  
 (Notary Public)

SALINA DIAZ  
 Commission # 1889528  
 Notary Public - California  
 Santa Clara County  
 My Comm. Expires May 16, 2014

☒ \*Total of 7 forms are submitted.

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) TESSERA 3.10-647
--	--

Whereas, I, Teck-Gyu Kang of  
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 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 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.

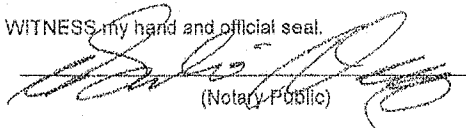
5/1/12 (Date)                      Teck-Gyu Kang (Signature)


State of California ) SS:  
 County of Santa Clara )

On 5/1/2012 before me, Salina Diaz, Notary Public personally  
 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/she executed the same in his/her authorized  
 capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted,  
 executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and  
 correct.

WITNESS my hand and official seal.

  
 (Notary Public)


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

☒ \*Total of 12 forms are submitted.

## ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

TESSERA 3.0-647

Whereas, I, Belgacem Haba of  
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 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 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.

1/18/2012  
 (Date)

Belgacem Haba  
 (Signature)

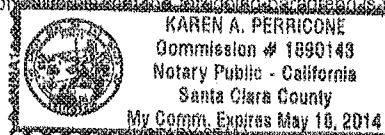
State of California ) SS:  
 County of Santa Clara )

On January 18, 2012 before me, Karen A. Perricone, Notary Public personally appeared Belgacem Haba, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Karen A. Perricone  
 (Notary Public)



☒ \*Total of 7 forms are submitted.

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) TESSERA 3.10-647
--	--

Whereas, I, Philip R. Osborn of  
c/o InvenSense 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 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 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.

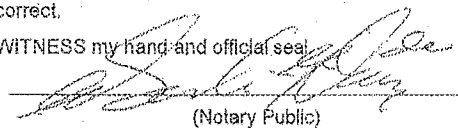
2 MAY 2012 (Date)
  
(Signature)

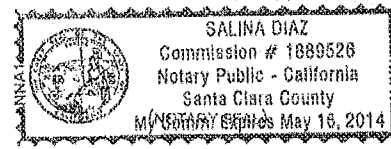
State of California ) SS:  
County of Santa Clara )

On 5/2/2012 before me, Salina Diaz, Notary Public personally 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 ~~he~~<sup>she</sup> executed the same in ~~his~~<sup>her</sup> authorized capacity, and that by ~~his~~<sup>her</sup> signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal:

  
(Signature)  
(Signature)



☒ \*Total of 12 forms are submitted.

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) <b>TESSERA 3.0-647</b>
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Whereas, I, Wei-Shun Wang of  
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 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 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.

3/13/2012 (Date) Wei-Shun Wang (Signature)


State of California ) SS:  
County of Santa Clara )

On 3/13/2012 before me, Salina Diaz, Notary Public personally  
appeared Wei-Shun Wang, who proved to me on the basis of satisfactory evidence to be the person whose name is  
subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized  
capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted,  
executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and  
correct.

WITNESS my hand and official seal

[Signature]  
(Notary Public)



**SALINA DIAZ**  
Commission # 1889526  
Notary Public - California  
Santa Clara County  
My Comm. Expires May 15, 2014

☒ \*Total of 7 forms are submitted.

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) <b>TESSERA 3.0-647</b>
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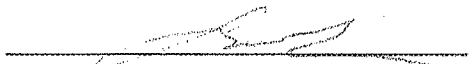
Whereas, I, Ellis Chau of  
c/o Tessera, Inc.; 3025 Orchard Parkway; San Jose, California 95134  
hereafter referred to as assignor, have with others invented certain new and useful improvements in  
PACKAGE-ON-PACKAGE ASSEMBLY WITH WIRE BONDS TO ENCAPSULATION SURFACE  
☒ for which an application for a United States Letters Patent was filed on 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 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.

3/28/2012  
(Date)

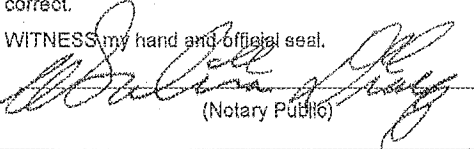
  
(Signature)


State of California ) SS:  
County of Santa Clara )

On 3/28/2012, before me, Salina Diaz, Notary Public personally  
appeared Ellis Chau, who proved to me on the basis of satisfactory evidence to be the person whose name is  
subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized  
capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted,  
executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and  
correct.

WITNESS my hand and official seal.

  
(Notary Public)



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

☒ \*Total of 7 forms are submitted.



<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) TESSERA 3.0-647
--	---

Whereas, I, Ilyas Mohammed of  
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 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 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.

3/15/2012 (Date)                      [Signature] (Signature)


State of California ) SS:  
County of San Clara )

On 3/15/2012 before me, Salina Diaz, Notary Public personally  
appeared Ilyas Mohammed, who proved to me on the basis of satisfactory evidence to be the person whose name is  
subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized  
capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted,  
executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and  
correct.

WITNESS my hand and official seal:

[Signature]  
(Notary Public)



**SALINA DIAZ**  
Commission # 1888626  
Notary Public - California  
(Santa Clara County)  
My Comm. Expires May 16, 2014

☒ \*Total of 7 forms are submitted.

## ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

TESSERA 3.10-647

Whereas, I, Norihito Masuda ofYokohama Business Park, Technical Center, 134 Goudo-cho, Hodogaya-Ku, Yokoham-shi;  
Kanagawa, 240-0005, JAPANhereafter 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, 2012Application 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 \_\_\_\_\_, as

\_\_\_\_\_, designating the United States.

And

Whereas, Tessera, Inc.a corporation of Delaware herein referred to as "assignee" whose mailing address is3025 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 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 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.

May 5, 2012

Date

Norihito Masuda

Norihito Masuda

nao masuda

Witness

Nao Masuda

Typed Name of Witness

☒ \*Total of 12 forms are submitted.

PATENT

REEL: 060570 FRAME: 0654

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) TESSERA 3.10-647
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Whereas, I, Kazuo Sakuma of Yokohama Business Park, Technical Center, 134 Goudo-cho, Hodogaya-Ku, Yokohama-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

☒ 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 \_\_\_\_\_, as \_\_\_\_\_, 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 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 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.

5/1/2012  
 Date

Kazuo Sakuma  
 Kazuo Sakuma

Masako Sakuma  
 Witness  
**MASAKO SAKUMA**  
 Typed Name of Witness

☒ \*Total of 12 forms are submitted.

## ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

TESSERA 3.10-647

Whereas, I, Kiyoaki Hashimoto of  
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

- ☒ 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 \_\_\_\_\_, as

\_\_\_\_\_, 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 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 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.

30 April 2012  
 Date

Kiyoaki Hashimoto  
 Kiyoaki Hashimoto

Hiroko Hashimoto  
 Witness

Hiroko Hashimoto  
 Typed Name of Witness

☒ Total of 12 forms are submitted.

## ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

TESSERA 3.10-647

Whereas, I, Kurosawa Inetaro ofYokohama Business Park, Technical Center, 134 Goudo-cho, Hodogaya-Ku, Yokohama-shi;  
Kanagawa, 240-0005, JAPANhereafter 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 \_\_\_\_\_,☐ for which an International Application was filed on \_\_\_\_\_, as

\_\_\_\_\_, 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 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 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.

May 01, 2012

Date

Inetaro Kurosawa

Kurosawa Inetaro

Mizuki Kurosawa

Witness

Mizuki Kurosawa

Typed Name of Witness

☒ \*Total of 12 forms are submitted.

# ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

TESSERA 3.10-647

Whereas, I, Tomoyuki Kikuchi of

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**

☒ 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 \_\_\_\_\_, as

\_\_\_\_\_, 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 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 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.

May 2, 2012  
Date

Tomoyuki Kikuchi  
Tomoyuki Kikuchi

May 2, 2012  
Witness

Ayano Kikuchi  
Typed Name of Witness

☒ \*Total of 12 forms are submitted.

PATENT

RECORDED: 07/00/2020

REEL: 060570 FRAME: 0658