

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5088748

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	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	03/18/2012
ILYAS MOHAMMED	03/15/2012
NORIHITO MASUDA	05/05/2012
KAZUO SAKUMA	05/01/2012
KIYOAKI HASHIMOTO	04/30/2012
KURASAWA INETARO	05/01/2012
TOMOYUKI KIKUCHI	05/02/2012

**RECEIVING PARTY DATA**

<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

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16058425

**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.*

Phone: 4083216069

Email: karen.perricone@xperi.com

Correspondent Name: TESSERA INTELLECTUAL PROPERTIES CORP. C/

Address Line 1: 3025 ORCHARD PARKWAY

Address Line 4: SAN JOSE, CALIFORNIA 95134

**PATENT**

<b>ATTORNEY DOCKET NUMBER:</b>	ME001-0647-US-06
<b>NAME OF SUBMITTER:</b>	CHRISTOPHER W. LATTIN
<b>SIGNATURE:</b>	/Christopher W. Lattin/
<b>DATE SIGNED:</b>	08/08/2018

**Total Attachments: 12**

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ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

TESSERA 3.0-647

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)

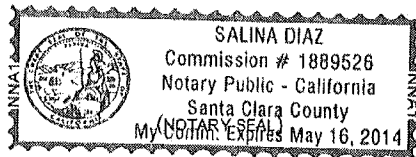
[Signature]  
(Signature)

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~~ 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)



\*Total of 7 forms are submitted.

ASSIGNMENT OF UTILITY APPLICATION

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)

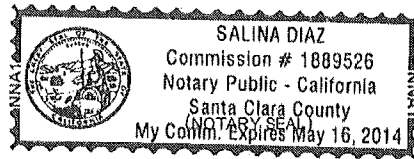
State of California ) SS:  
County of Santa Clara )

Salina Diaz, Notary Public

On 5/1/2012, before me, \_\_\_\_\_ 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.  
Salina Diaz  
(Notary Public)



\*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

[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 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)

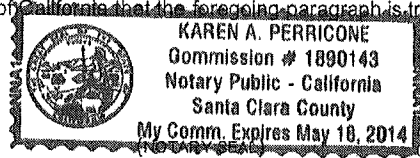
Belgacem Haba (Signature)

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)



[X] \*Total of 7 forms are submitted.

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

TESSERA 3.10-647

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

[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 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)

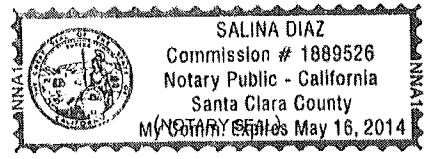
[Signature] (Signature)

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/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)



[X] \*Total of 12 forms are submitted.

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

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 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)

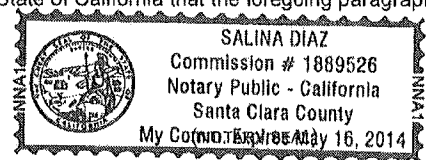
State of California ) SS:

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.  
Salina Diaz  
(Notary Public)



\*Total of 7 forms are submitted.

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

TESSERA 3.0-647

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

[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 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)

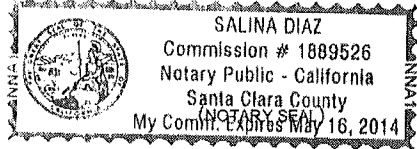
State of California ) SS:

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)



[X] \*Total of 7 forms are submitted.



ASSIGNMENT OF UTILITY APPLICATION

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)

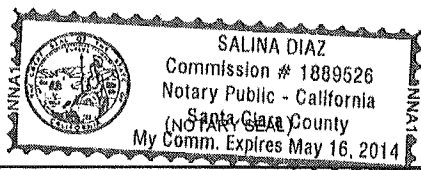
[Signature]  
(Signature)

State of California ) SS:  
County of Santa 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)



\*Total of 7 forms are submitted.

**ASSIGNMENT OF UTILITY APPLICATION**

Docket Number (Optional)

TESSERA 3.10-647

Whereas, I, Norihito Masuda 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 5, 2012  
Date

Norihito Masuda  
Norihito Masuda

nao masuda  
Witness

Nao Masuda  
Typed Name of Witness



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, 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: 08/08/2016

REEL: 036580 FRAME: 0899