

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5874704

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DANIEL S. GIANOLA	09/18/2018
GYUSEOK KIM	09/12/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA
<b>Street Address:</b>	3160 CHESTNUT STREET
<b>Internal Address:</b>	SUITE 200
<b>City:</b>	PHILADELPHIA
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19104
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16624045
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(215)568-3439
<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>Phone:</b>	215-568-3100
<b>Email:</b>	assignments@woodcock.com
<b>Correspondent Name:</b>	BAKERHOSTETLER
<b>Address Line 1:</b>	CIRA CENTRE 12TH FLOOR
<b>Address Line 2:</b>	2929 ARCH STREET
<b>Address Line 4:</b>	PHILADELPHIA, PENNSYLVANIA 19104-2891
<b>ATTORNEY DOCKET NUMBER:</b>	103241.006503 / 17-8149
<b>NAME OF SUBMITTER:</b>	VALERIE CHICCHI
<b>SIGNATURE:</b>	/Valerie Chicchi/
<b>DATE SIGNED:</b>	12/18/2019
<b>Total Attachments: 6</b>	
source=SIGNED_ASSIGNMENT#page1.tif	
source=SIGNED_ASSIGNMENT#page2.tif	
source=SIGNED_ASSIGNMENT#page3.tif	

source=SIGNED\_ASSIGNMENT#page4.tif

source=SIGNED\_ASSIGNMENT#page5.tif

source=SIGNED\_ASSIGNMENT#page6.tif

ASSIGNMENT

WHEREAS, I, Daniel S. Gianola, a citizen of United States, residing at 1735 Olive Street, Santa Barbara, California 93101, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number 103241.006195 / 17-8149 ("the invention"), assigned application number 62/521,844 filed on June 19, 2017, entitled COPPER ALLOYS FOR INTERCONNECTORS AND METHODS FOR MAKING THE SAME ("the subject application");

AND WHEREAS, The Trustees of the University of Pennsylvania, ASSIGNEE, having a place of business at 3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal

DOCKET NO.: 103241.006195 / 17-8149

representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 10<sup>th</sup> day of SEPTEMBER, year of 20 18.

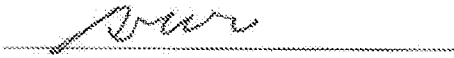
  
Signature - Daniel S. Gianola

\*\*\*\*\*

WITNESS

Santa Barbara CA . USA  
Signed At (City/State/Country)

Jungko Sun  
Name

  
Signature

09 / 18 / 2018  
Date

DOCKET NO.: 103241.006195 / 17-8149

This assignment is accepted on behalf of The Trustees of the University of Pennsylvania by:

---

Date

---

Jennifer Langenberger  
Director, Intellectual Property

**ASSIGNMENT**

WHEREAS, I, **Gyuseok Kim**, a citizen of **South Korea**, residing at **1425 Suffolk Lane, Wynnewood, Pennsylvania 19096**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **103241.006195 / 17-8149** ("the invention"), assigned application number **62/521,844** filed on **June 19, 2017**, entitled **COPPER ALLOYS FOR INTERCONNECTORS AND METHODS FOR MAKING THE SAME** ("the subject application");

AND WHEREAS, **The Trustees of the University of Pennsylvania**, ASSIGNEE, having a place of business at **3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

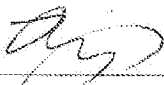
AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal

DOCKET NO.: 103241.006195 / 17-8149

representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 12<sup>th</sup> day of September, year of 20 18.

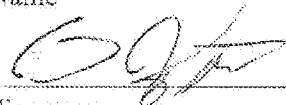
  
\_\_\_\_\_  
Signature -- Gyuseok Kim

\*\*\*\*\*

WITNESS

Philadelphia, PA USA  
Signed At (City/State/Country)

Eric D. Johnston  
Name

  
\_\_\_\_\_  
Signature

Sep 17, 2018  
Date

DOCKET NO.: 103241.006195 / 17-8149

This assignment is accepted on behalf of The Trustees of the University of Pennsylvania by:

.....  
Date

.....  
Jennifer Langenberger  
Director, Intellectual Property

Page 3 of 3