# 503941425 08/02/2016

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3988080

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
NICHOLAS J. AMOROSO	04/26/2013
STEPHEN F. BADYLAK	04/17/2013
YI HONG	05/02/2013
ALEXANDER HUBER	04/18/2013
KEISUKE TAKANARI	06/14/2013
WILLIAM R. WAGNER	04/18/2013

#### **RECEIVING PARTY DATA**

Name:	UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION
Street Address:	200 GARDNER STEEL CONFERENCE CENTER
Internal Address:	THACKERAY & O'HARA STREETS
City:	PITTSBURGH
State/Country:	PENNSYLVANIA
Postal Code:	15260

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15216878

## **CORRESPONDENCE DATA**

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Correspondent Name: JESSE A. HIRSHMAN, THE WEBB LAW FIRM

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ATTORNEY DOCKET NUMBER:	6527-1603452
NAME OF SUBMITTER:	JESSE A. HIRSHMAN
SIGNATURE:	/Jesse A. Hirshman/

PATENT 503941425 REEL: 039309 FRAME: 0721

DATE SIGNED:	08/02/2016
Total Attachments: 8	
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PATENT REEL: 039309 FRAME: 0722

RECORDATION FO	
PATENT	S ONLY
To the Director of the U.S. Patent and Trademark Office: Pleas	e record the attached documents or the new address(es) below.
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)
Nicholas J. Amoroso Keisuke Takanari Stephen F. Badylak William R. Wagner	Name: University of Pittsburgh - Of the Commonwealth
Yi Hong	System of Higher Education
Alexander Huber	· · · · · · · · · · · · · · · · · · ·
Additional name(s) of conveying party(ies) attached? Yes / No 3. Nature of conveyance/Execution Date(s):	Street Address: 200 Gardner Steel Conference Center
Execution Date(s) 04/26/2013; 04/17/2013; 05/02/2013;	
04/18/2013; 06/14/2013 Merger	Thackeray & O'Hara Streets
Security Agreement Change of Name	City: Pittsburgh
Joint Research Agreement	State: PA
Government Interest Assignment	Country: US Zip: 15260
Executive Order 9424, Confirmatory License	
Other	Additional name(s) & address(es) attached? Yes V No
<b>-</b> .	document serves as an Oath/Declaration (37 CFR 1.63).
A. Patent Application No.(s)	B. Patent No.(s)
15/216,878	
Additional numbers at	I tached? ☐ Yes ✔ No
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Name: <u>Jesse A. Hirshman</u>	7. Total fee (37 CFR 1.21(h) & 3.41) \$0
Internal Address: The Webb Law Firm	7. Total lee (37 OF R 1.21(II) & 3.41) \(\psi \frac{\psi}{\psi}\)
internal / Nations. 1110 Tyress Barr 11111	Authorized to be charged to deposit account
	Enclosed
Street Address: One Gateway Center 420 Ft. Duquesne Blvd., Ste 1200	None required (government interest not affecting title)
	8. Payment Information
City: Pittsburgh  State: PA  Zip: 15222	
Phone Number: 412-471-8815	Deposit Account Number
Docket Number: 6527 - 1603452	Authorized User Name
Email Address: assignments@webblaw.com	
9. Signature:	August 2, 2016
Signature	Date
Jesse A. Hirshman Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:
	et) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director	of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT REEL: 039309 FRAME: 0723

Application No.	DOMESTIC 13/814,783
Attorney Docket No.	6527-130290

# **ASSIGNMENT**

	BIOHYBRID COMPOSITE SCAFFOLD	
	(Invention Title)	
X	for which a United States Provisional Patent application was filed on 08/17/2010 (mun/dd/yyyy) and bears Application Number 61/374,340 (hereinafter "said application").	
ANI	D/OR	
	for which I have this day executed an application for a United States Patent (hereinafter "said application").	
ANI	D/OR	
X	for which an application for a United States Patent was filed on 08/17/2011 (mm/dd/yyyy) and bears Application Number 13/814,783 (hereinafter "said application").	
ANI	D/OR	
X	for which an international patent application was filed under the Patent Cooperation Treaty on <u>08/17/2011</u> (mm/dd/yyyy), bearing Application No. <u>PCT/US2011/048071</u> (hereinafter "said application").	

AND, WHEREAS, University of Pittsburgh — Of the Commonwealth System of Higher Education, an educational institution of the Commonwealth of Pennsylvania, located at 200 Gardner Steel Conference Center, Thackeray & O'Hara Streets, Pittsburgh, PA 15260, hereinafter called the "assignce", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREFORE, for good and valuable consideration paid to me by said assignee, the receipt of which is hereby acknowledged. I as the inventor or as one of the inventors, hereinafter the assignor(s), do hereby assign, sell and transfer unto said assignee the full and exclusive right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals and/or extensions thereof. Such assignment extends to the full ends of the terms of these applications and patents as fully and entirely as the same would have been held and enjoyed by me had this Assignment not been made.

I covenant that I am the lawful owner(s) of said application, inventions and improvements, that the same are unencumbered, that no license has been granted to make, use or vend the said inventions or improvements or any of them, and that I have the full right to make this Assignment.

And for the consideration aforesaid, I agree individually and, if applicable, jointly that I will communicate to said assignee or the representatives thereof any facts known to me respecting said inventions and improvements, and will, upon request but without expense to me,

Application No.	DOMESTIC 13/814,783
Attorney Docket No.	

testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts deemed necessary or expedient by said assignee or by counsel for said assignee to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This Assignment shall be binding upon my heirs, executors, administrators and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors and/or assigns, as the case may be, of said assignee.

1. FULL NAME OF ASSIGNOR:	RESIDENCE
Nicholas J. Amoroso	Pittsburgh, PA
EXECUTED this 76 day of April	
STATE OF Pennsylvania ) COUNTY OF Allegheny	SIGNATURE
a notary public, personally appeared proved on the basis of satisfactory evide	he year 3013, before me Eve A. Blasko, NOTARY PUBLIC NAME  Nicholas J. Amoroso  NAME OF DOCUMENT SIGNER  ence to be the person whose name is subscribed to this ated the same. Witness my hand and official seal.  NOTARY PUBLIC
	NOTARIAL SEAL EVE A BLASKO A NOTARY Public PITTSBURGH CITY, ALLEGHENY CNTY My Commission Expires Jan 26, 2014

X Checked Box indicates 3 additional page(s) for inventor signatures.

REEL: 039309 FRAME: 0725

Attorney Docket No6  2. FULL NAME OF ASSIGNOR: Stephen F. Badylak Pittsburgh, PA  EXECUTED this	527-130290
Stephen F. Badylak  EXECUTED this 17 day of APRIL , 2013  STATE of PARIL , 2013  SIGNATURE  STATE of PARIL , 2013  SIGNATURE	- John Co
STATE of Painsy Wanter  COUNTY of Alleanery  On this 17 day of April , in the year 2013 , before me EVL A . Black  a notary public, personally appeared Stephen F. Badylak  NAME OF DOCUMENT SIGNER  proved on the basis of satisfactory evidence to be the person whose name is subscribed instrument, and acknowledged he/she executed the same. Witness my hand and official see Notary Public  NOTARIAL SEAL  EVE A BLASKO  Notary Public  PITTSBURGH GITY, ALLEGHENY CNTY  My Commission Expires Jan 26, 2014  3. FULL NAMB OF ASSIGNOR:  YI Hong  RESIDENCE:  Pittsburgh, PA  EXECUTED thisday of, 201  SIGNATURE	- defen
STATE of Painsy Wanter  COUNTY of Alleanery  On this 17 day of April , in the year 2013 , before me EVL A . Black  a notary public, personally appeared Stephen F. Badylak  NAME OF DOCUMENT SIGNER  proved on the basis of satisfactory evidence to be the person whose name is subscribed instrument, and acknowledged he/she executed the same. Witness my hand and official see Notary Public  NOTARIAL SEAL  EVE A BLASKO  Notary Public  PITTSBURGH GITY, ALLEGHENY CNTY  My Commission Expires Jan 26, 2014  3. FULL NAMB OF ASSIGNOR:  YI Hong  RESIDENCE:  Pittsburgh, PA  EXECUTED thisday of, 201  SIGNATURE	3
COUNTY of Altranery  On this 17 day of April , in the year 2013 , before me EVE A . Blass Motary public, personally appeared Stephen F. Badylak NAMBOR DOCUMENT SIONER proved on the basis of satisfactory evidence to be the person whose name is subscriptionstrument, and acknowledged he/she executed the same. Witness my hand and official sees the person whose name is subscriptionstrument, and acknowledged he/she executed the same. Witness my hand and official sees the person whose name is subscriptionstrument, and acknowledged he/she executed the same. Witness my hand and official sees the person whose name is subscriptionstrument, and acknowledged he/she executed the same. Witness my hand and official sees the person whose name is subscriptionstrument, and acknowledged he/she executed the same. Witness my hand and official sees the person whose name is subscriptionstrument, and acknowledged he/she executed the same.  NOTARY PUBLIC NOTARY PUBLIC PUBLIC STATE of Pittsburgh, PA  3. FULL NAME OF ASSIGNOR: RESIDENCE: Yi Hong Pittsburgh, PA  EXECUTED this	( )
On this 17 day of Apr.1 , in the year 2013 , before me EVE A . Blass	_
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a notary public, personally appeared  proved on the basis of satisfactory evidence to be the person whose name is subscript instrument, and acknowledged he/she executed the same. Witness my hand and official seasons and acknowledged he/she executed the same. Witness my hand and official seasons and acknowledged he/she executed the same. Witness my hand and official seasons are also acknowledged he/she executed the same. Witness my hand and official seasons are acknowledged he/she executed the same. Witness my hand and official seasons are acknowledged he/she executed the same. Witness my hand and official seasons are acknowledged he/she executed the same. Witness my hand and official seasons are acknowledged he/she executed the same. Witness my hand and official seasons are acknowledged he/she executed the same. Witness my hand and official seasons are acknowledged he/she executed the same. Witness my hand and official seasons are acknowledged he/she executed the same. Witness my hand and official seasons are acknowledged he/she executed the same. Witness my hand and official seasons are acknowledged he/she executed the same. Witness my hand and official seasons are acknowledged he/she executed the same. Witness my hand and official seasons are acknowledged he/she executed the same. Witness my hand and official seasons are acknowledged he/she executed the same. Witness my hand and official seasons are acknowledged he/she executed the same. Witness my hand and official seasons are acknowledged he/she executed the same. Witness my hand and official seasons are acknowledged he/she executed the same. Witness my hand and official seasons are acknowledged he/she executed the same. Witness my hand and official seasons are acknowledged he/she executed he/she executed the same. Witness my hand acknowledged he/she executed he/she ex	.kb
proved on the basis of satisfactory evidence to be the person whose name is subscription instrument, and acknowledged he/she executed the same. Witness my hand and official sea NOTARIAL SEAL NOTARY PUBLIC EYE & BLASKO Notary Public PITTSBURGH CITY, ALLEGHENY CNTY My Commission Expires Jan 26, 2014  3. FULL NAME OF ASSIGNOR:  Yi Hong  RESIDENCE:  Yi Hong  Aug of  1.201  SIGNATURE	AMB
Instrument, and acknowledged he/she executed the same. Witness my hand and official sea  NOTARIAL SEAL EVE A BLASKO Notary Public PITTSBURGH CITY, ALLEGHENY CNTY My Commission Expires Jan 26, 2014  3. FULL NAME OF ASSIGNOR: Yi Hong Pittsburgh, PA  EXECUTED thisday of, 201_  SIGNATURE	
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3. FULL NAME OF ASSIGNOR: RESIDENCE: Yi Hong Pittsburgh, PA  EXECUTED thisday of, 201  SIGNATURE	E A
Yi Hong Pittsburgh, PA  EXECUTED thisday of	L
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Yi Hong Pittsburgh, PA  EXECUTED thisday of	
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STATE of)	
STATE of	•
STATE of	<del></del>
COUNTY of	
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On this day of in the year, before me	±
a notary public, personally appeared YEAR YI Hong	AMB
NAMB OF DOCUMENT SIGNER	· · · · · · · · · · · · · · · · · · ·
proved on the basis of satisfactory evidence to be the person whose name is subscri- instrument, and acknowledged he/she executed the same. Witness my hand and official sea	bed to this
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Notary Public	
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Page 3 of 5

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į.	Application No.	DOMEST) 13/814.783
	Attorney Docket No.	
2. FULL NAME OF ASSIGNOR: Stephen F. Badylak	RESIDENCE: Pittsburgh, PA	· .
EXECUTED thisday of	, 201	
	SIGNATUR	B
STATE of		
COUNTY of		
On this day of MONTH, in the	he year before me	
a notary public, personally appeared	Stephen F, Badylak NAMBOF POCUMENT SIGNER	**************************************
	NOTARY PUB	7/1
	* 2.6.44 4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	S B A L
3. FULL NAME OF ASSIGNOR: YI Hong	RESIDENCE: Pittsburgh, PA	
EXECUTED this of day of May		· · · · · · · · · · · · · · · · · · ·
•		
STATE of Texas	Signaturi	
On this 2 day of May, in the	to year 2013, before me HAW H	NGwen.
On this 2 day of May, in the notary public, personally appeared	te year 2013, before me HAW H YBAR YI Hong	NGWen,
a notary public, personally appeared proved on the basis of satisfactory evider instrument, and acknowledged he/she execut	YEAR YI Hong  NAME OF DOCUMENT SIGNER  NOT ARY FUEL  YI Hong  NAME OF DOCUMENT SIGNER  name to be the person whose name is sub  ted the same. Witness my hand and official	NG-wen,
On this 2 day of May, in the month a notary public, personally appeared proved on the basis of satisfactory eviden	VI Hong  NAME OF DOCUMENT SIGNER  NOTARY PUBL  NOTARY PUBL  NOTARY PUBL	NG-Wen, CONAME /

Page 3 of 5

	Application No.	DOMESTIC 13/814.783
	Attorney Docket No	6527-130290
4. FULL NAMB OF ASSIGNOR: Alexander Huber	RESIDENCE: Pittsburgh, PA	
EXECUTED this 19 day of April		3
STATE OF PENNSY / VANIS	Signaturi	<u>,</u>
STATE of Penius y Lang COUNTY of Alleghenty  On this 18 they of April in they a notary public, personally appeared  proved on the basis of satisfactory evidence industrial and approved due to be a satisfactory of the constant of the satisfactory and approved due to be a satisfactory of the constant of the satisfactory of the	year 2013, before me Lola A.	Mampson,
proved on the basis of satisfactory evidence instrument, and acknowledged he/she executed	to be the person whose name is sub the same. Witness my hand and official	scribed to this
COMMONWEALTH OF PENNSYLVANIA  Notarial Seal  Lois A. Thumpson, Rotally Public  Shaler Typ., Allegheny County  My Commission Explais Nov. 25, 2016  MEMBER, PENNSYLVANIA ASSOCIATION OF MOTARIES	Norsky Puni	ic s e A L
5. FULL NAME OF ASSIGNOR: Keişuko Takanari	RESIDENCE: Pittsburgh, PA	****
EXECUTED thistlay of	_,201	
	SIONATUR	K
STATE of		
COUNTY of) On this day of, in the	year, before me	
a notary public, personally appeared	YEAR Keisuke Takanari	ILICNAMIL"
proved on the basis of satisfactory evidence instrument, and acknowledged he/she executed	name or ducument signer is sult to be the person whose name is sult the same. Witness my hand and official	iscribed to this
	NOTARY PUB	8 "B A
		L.

Page 4 of 5

PULL NAME OF ASSIGNOR: Alexander Haber Alexand		13/814/783
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n fills day of house possed Alexander Huber which personally appeared Alexander Huber which personally appeared which person whose name is subscribed to this strument, and acknowledged he/she executed the same. Witness my hand and official seat.  FULL NAME OF ASSIGNOR: RESIDENCE NOTARY FUBLIC  FULL NAME OF ASSIGNOR: RESIDENCE Enter For Nagoya, Japan Keistike Takanari Pune 2013  KECLITED this 19th day of June 2013  Levals Jakanari Signature  TATE of DAY of Many of June 1014  Alexander Huber For Nagoya, Japan Keistike Takanari Signature Signature Signature Signature Official seat.  Notary Full Name of Signature		
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oved on the basis of satisfactory avidence to be the person whose name is subscribed to this strument, and acknowledged he/she executed the same. Witness my hand and official seel.  NOTARY PUBLIC  S. B. A. I.  PULLINAME OF ASSIGNOR: RESIDENCE: VAGOYA, Japan.  Kelsuke Takanari Public Jah. day of June 2013  ATE of	Trioxantion ithor	TCHYVIII.
PULL NAME OF ASSIGNOR:  RESIDENCE:  RESIDENCE:  RESIDENCE:  Pitteburgh TA  NAGOYA, Japan.  RECUTED this 18th daylof June 1201 3.  Livela Jakamana.  Signature  ATE of	io to be the person whose name is sub	soribed to this seat.
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PULL: NAME OF ASSIGNOR:  Kelauke Takanari  Pinsburgh VA  KECUTED this 1944 day of June 2013.  ATE of DUNTY by  Althis day of Month year before me worker contents to this structure of an the basis of satisfactory evidence to be the person whose mane is subscribed to this structure, and acknowledged he/she executed the same. Witness my hand and official scal.	inolviti a cont	
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Kelatike Takanari  XECUTEPI this 1944 day of June 2013  Licials Jakanaris  Signatures  Signatures  Attis of day of some void the person whose name is sobscibed to this strument, and acknowledged he/she executed the same. Witness my haid and official scal.		E
Kelatike Takanari  XECUTEPI this 1944 day of June 2013  EATE of DUNTY of Author year before the horizonal source of antifactory evidence to be the person whose many is subscribed to this strument, and acknowledged he/she executed the same. Witness my hand and official seal.  Notary Public.	RESIDENCE: A.A.	enia Tarren.
CATE of	Pittsburght TA	<i>M.</i> 3
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Our Ty of day of , in the year , before me not real some notification of setting public, personally appeared	- Signatur	4
this day of the year to before me not a personally appeared to the person whose name is subscribed to this strument, and acknowledged he/she executed the same. Witness my hand and official real.		
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	Norsey Brief	*
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	A BANK CONTRACTOR OF SECTION	
	7100	Pittsburgh, PA  Signaturi  Before me  Alexander Huber  Samor portugning some  moe to be the person whose name is subted the same. Witness my hand and official  Notary Publication of the Signature  RESIDENCE:  Pittsburgh PA  2013  Helsala Jakan  Signature  Signature  Reside Takanari  Samor pocument come  Reside Takanari  Samor pocument come.

PATENT REEL: 039309 FRAME: 0729

	Application No.	DOMESTIC 13/814,783
	Attorney Docket No	6527-130290
6. FULL NAME OF ASSIGNOR: F William R. Wagner	ESIDENCE: Wexford, PA 4614	wa, Py wew
EXECUTED this 18 day of APRIL , 201	3/16/4	
STATE of Pennsylvania	SIGNATURE	
COUNTY of Allegheny On this 18 day of APRIL, in the year 2	OI3, before me EVLA B	asko,
a notary public, personally appeared	William R. Wagner NAME OF DOCUMENT STONER	•
proved on the basis of satisfactory evidence to t instrument, and acknowledged he/she executed the s	e the person whose name is sub-	scribed to this seal.
NOTARIAL SEAL EVE A BLASKO Notary Public	NOTARY PUBL	ic S
PITTSBURGH ÇITY, ALLEGHENY CN My Commission Expires Jan 26, 201	<u>¥</u>	E A