

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6711279

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GUILLERMO A AMEER	05/27/2015
JIAN YANG	05/28/2015
CHENG SUN	05/22/2015
EVAN C BAKER	05/26/2015
HENRY O.T. WARE	05/26/2015
FAN ZHOU	05/26/2015
ROBERT VAN LITH	04/24/2017
RECEIVING PARTY DATA	
Name:	NORTHWESTERN UNIVERSITY
Street Address:	633 CLARK STREET
City:	EVANSTON
State/Country:	ILLINOIS
Postal Code:	60208
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17308825
CORRESPONDENCE DATA	
Fax Number:	(608)662-1276
<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>	
Phone:	6086621277
Email:	jagile@casimirjones.com
Correspondent Name:	DAVID W STAPLE
Address Line 1:	2275 DEMING WAY SUITE 310
Address Line 4:	MIDDLETON, WISCONSIN 53562
ATTORNEY DOCKET NUMBER:	NWEST-34449.304
NAME OF SUBMITTER:	DAVID W STAPLE
SIGNATURE:	/DAVID W STAPLE/
DATE SIGNED:	05/14/2021

Total Attachments: 11

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ASSIGNMENT

Serial No: 62/154,499
Filing Date: April 29, 2015
Title of U.S. Patent Application: 3D PRINTING OF BIOMEDICAL IMPLANTS

For good and valuable consideration, the receipt and sufficiency of which are hereby agreed, each of the undersigned hereby assigns to Northwestern University, an Illinois not-for-profit corporation, having a place of business at 633 Clark Street, Evanston, Illinois 60208 and its successors and assigns ("Assignee") the entire right, title and interest in and to the inventions of such undersigned disclosed in the application listed above, and in any and all other applications anywhere in the world which the undersigned may file and/or be named as an inventor of, solely or jointly, on said inventions, in any and all patents which may be obtained on any of said applications and in any and all reissues, reexaminations, supplemental examinations, inter partes reviews, oppositions, post-grant reviews, supplementary protection certificates and/or extensions thereof, including without limitation, the right to bring suit and to claim and retain all damages and/or seek other remedies for the past, present and future infringement of any of the foregoing, the right of priority, including without limitation to claim priority benefit of or to said patent applications, and request the Commissioner for Patents in the United States and similar authorities outside the United States to issue said patents to and in the name of the Assignee.

Each of the undersigned states that the application listed above is or was made or authorized to be made by him or her. Each of the undersigned believes himself or herself to be the original inventor or a joint inventor with another undersigned of a claimed invention in the application listed above. Each of the undersigned acknowledges that any willful false statement made by him or her in this paragraph is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five years, or both.

Except in favor of Assignee, each of the undersigned warrants that: (i) he or she is the owner of all its rights, titles and interests herein assigned and has the right to make this unconditional and irrevocable assignment to Assignee without obtaining any approval or permission of a third party; and (ii) there are no outstanding encumbrances, liens, prior assignments, licenses, or other obligations or restrictions on the rights, titles and interests herein assigned.

Upon the request of Assignee and at no expense to the undersigned, each of the undersigned hereby agrees to execute any and all applications on said inventions, including without limitation for the reissue, reexamination, supplementary protection certificate or extension thereof and any oath, declaration or affidavit relating thereto that said Assignee may deem necessary or expedient, and to cooperate to the best of the ability of the undersigned with and perform any and all affirmative acts requested by Assignee to prepare, file, prosecute, maintain, defend, enforce and vest in Assignee the rights, titles and interests assigned herein, including without limitation, preparing and executing statements and giving and producing evidence in support thereof, whereby said rights, titles and interests will be held and enjoyed by said Assignee to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

ASSIGNEE: Northwestern University:

On behalf of Northwestern University, Assignee, the authorized signatory below, hereby confirms Assignee's acceptance of all rights, privileges, titles and interests conveyed by this Assignment.

Signature: Beverly R. Milligan Date: 5/29/15
Name: Beverly R. Milligan
Title: Invention Specialist, Innovation and New Ventures Office (INVO)

Undersigned (ASSIGNORS):

Guillermo A. Amezcua 5-27-15
Inventor Name: Guillermo A. Amezcua DATE

State of IL
County of Cook ss.

On this 27th day of May, 2015, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.

Beverly Ruth Milligan
NOTARY PUBLIC
My Commission Expires: 5/21/2017

[NOTARY SEAL]



Serial No: 62/154,499

Filing Date: April 29, 2015

Title of U.S. Patent Application: 3D PRINTING OF BIOMEDICAL IMPLANTS

Undersigned (ASSIGNORS) continued:

Jian Yang 5/28/15
Inventor Name: Jian Yang DATE

State of Shanghai ss.
County of _____

On this 28 day of May, 2015, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.

Qiying Dai
NOTARY PUBLIC

[NOTARY SEAL]

My Commission Expires: _____

No. 275 - Songjiang District - Shanghai - China

201600

代为博

上海市松江区第一中学

Serial No: 62/154,499

Filing Date: April 29, 2015

Title of U.S. Patent Application: 3D PRINTING OF BIOMEDICAL IMPLANTS

Undersigned (ASSIGNORS) continued:



Inventor Name: Cheng Sun

5/22/2015

DATE

State of Illinois

County of Cook ss.

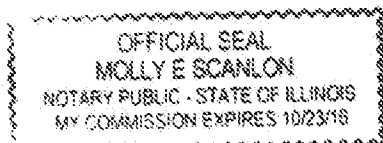
On this 22 day of May, 2015, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.



NOTARY PUBLIC

[NOTARY SEAL]

My Commission Expires: 10/23/16



Serial No: 62/154,499

Filing Date: April 29, 2015

Title of U.S. Patent Application: 3D PRINTING OF BIOMEDICAL IMPLANTS

Undersigned (ASSIGNORS) continued:

Evan C. Baker 5/26/2015
Inventor Name: Evan C. Baker DATE

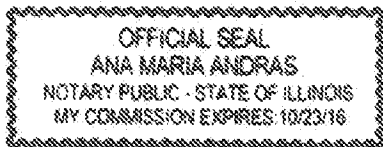
State of Illinois ss.
County of Cook

On this 26 day of May, 2015, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.

Ana Maria Andras
NOTARY PUBLIC

[NOTARY SEAL]

My Commission Expires: 10/23/16



Serial No: 62/154,499

Filing Date: April 29, 2015

Title of U.S. Patent Application: 3D PRINTING OF BIOMEDICAL IMPLANTS

Undersigned (ASSIGNORS) continued:

H. O. T. Ware 5/26/2015
Inventor Name: Henry O.T. Ware DATE

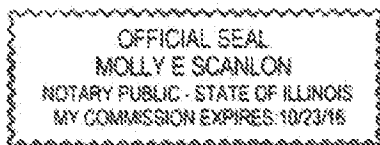
State of Illinois
County of Cook ss.

On this 26 day of May, 2015, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.

Molly E. Scanlon
NOTARY PUBLIC

[NOTARY SEAL]

My Commission Expires: 10/23/16



Serial No: 62/154,499

Filing Date: April 29, 2015

Title of U.S. Patent Application: 3D PRINTING OF BIOMEDICAL IMPLANTS

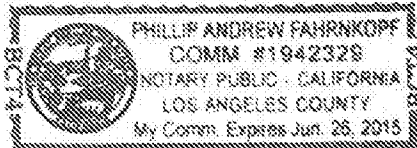
Undersigned (ASSIGNORS) continued:

Fan Zhou 05/26/2015
Inventor Name: Fan Zhou DATE

State of California

County of Los Angeles

On this 26 day of May, 2015, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.



[NOTARY SEAL]

Phillip Andrew Fahrnkopf
NOTARY PUBLIC
My Commission Expires: June 25, 2015

ASSIGNMENT

U.S. Serial No: **PCT/US2016/029774**

Filing Date: **April 28, 2016**

Inventor: **Robert Van Lith**

Title of Patent Application: **3D PRINTING OF BIOMEDICAL IMPLANTS**

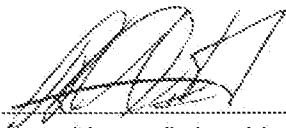
For good and valuable consideration, the receipt and sufficiency of which are hereby agreed, the undersigned hereby assigns to Northwestern University, an Illinois not-for-profit corporation, having a place of business at 633 Clark Street, Evanston, Illinois 60208 and its successors and assigns ("Assignee") the entire right, title and interest in and to the inventions of such undersigned disclosed in the application listed above, and in any and all other applications anywhere in the world which the undersigned may file and/or be named as an inventor of, solely or jointly, on said inventions, in any and all patents which may be obtained on any of said applications and in any and all reissues, reexaminations, supplemental examinations, inter partes reviews, oppositions, post-grant reviews, supplementary protection certificates and/or extensions thereof, including without limitation, the right to bring suit and to claim and retain all damages and/or seek other remedies for the past, present and future infringement of any of the foregoing, the right of priority, including without limitation to claim priority benefit of or to said patent applications, and request the Commissioner for Patents in the United States and similar authorities outside the United States to issue said patents to and in the name of the Assignee.

The undersigned states that the application listed above is or was made or authorized to be made by him or her. The undersigned believes himself or herself to be the original inventor of a claimed invention in the application listed above. The undersigned acknowledges that any willful false statement made by him or her in this paragraph is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five years, or both.

Except in favor of Assignee, the undersigned warrants that: (i) he or she is the owner of all its rights, titles and interests herein assigned and has the right to make this unconditional and irrevocable assignment to Assignee without obtaining any approval or permission of a third party; and (ii) there are no outstanding encumbrances, liens, prior assignments, licenses, or other obligations or restrictions on the rights, titles and interests herein assigned.

Upon the request of Assignee and at no expense to the undersigned, the undersigned hereby agrees to execute any and all applications on said inventions, including without limitation for the reissue, reexamination, supplementary protection certificate or extension thereof and any oath, declaration or affidavit relating thereto that said Assignee may deem necessary or expedient, and to cooperate to the best of the ability of the undersigned with and perform any and all affirmative acts requested by Assignee to prepare, file, prosecute, maintain, defend, enforce and vest in Assignee the rights, titles and interests assigned herein, including without limitation, preparing and executing statements and giving and producing evidence in support thereof, whereby said rights, titles and interests will be held and enjoyed by said Assignee to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Undersigned (ASSIGNOR):


Inventor Name: Robert Van Lith

4/24/2017
DATE

State of Massachusetts ss.

County of Essex

*See attached
Page*

On this 24th day of April, 2017, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.

NOTARY PUBLIC

{NOTARY SEAL}

My Commission Expires: _____

(continued on next page)


WITNESS PAGE - EXECUTION OF ASSIGNMENT

NORTHWESTERN UNIVERSITY REFERENCE NUMBER: NU2015-058-02

Serial No: PCT/US2016/029774

Filing Date: April 28, 2016

Title of U.S. Patent Application: 3D PRINTING OF BIOMEDICAL IMPLANTS

 (Signature)

INVENTOR PRINTED NAME: ROBERT VAN LITH

DATE OF EXECUTION: 4/24/2017

FIRST WITNESS:

 (Signature)

Printed Name: Kalyaporn Chuekamrai

Witness Date: 4/24/2017

Home Address:

330 Paradise Road, #1427
Swampscott MA 01907
USA

SECOND WITNESS:

 (Signature)

Printed Name: Lanny Bastiaannet

Witness Date: 4/24/2017

Home Address:

Martin Luther King 215
Culemborg 4103 GX
Netherlands

Attorney Docket No. **NWEST-34449/WO-1/ORD**
NU Reference No. **2015-058-02**

U.S. Serial No: **PCT/US2016/029774**
Filing Date: **April 28, 2016**
Inventor: **Robert Van Lith**
Title of Patent Application: **3D PRINTING OF BIOMEDICAL IMPLANTS**

ASSIGNEE ACCEPTANCE: Northwestern University

On behalf of Northwestern University, Assignee, the authorized signatory below, hereby confirms Assignee's acceptance of all rights, privileges, titles and interests conveyed by this Assignment.

Authorized Signature: _____

Date: _____

Printed Name

Beverly R. Milligan
Beverly R. Milligan, Invention Specialist or
Nicole A. Janovick, Ph.D., J.D., Invention Manager

Department: Innovation and New Ventures Office (INVO)