07/14/2017 504458089

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HAITAO CUI	08/26/2016
WEI ZHU	08/26/2016
BENJAMIN HOLMES	08/25/2016
LIJIE GRACE ZHANG	08/26/2016

RECEIVING PARTY DATA

Name:	THE GEORGE WASHINGTON UNIVERSITY, A CONGRESSIONALLY CHARTERED NOT-FOR-PROFIT CORPORATION		
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City:	WASHINGTON		
State/Country:	D.C.		
Postal Code:	20052		

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	15650397		

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	123585.415961	
NAME OF SUBMITTER:	MIGUEL A. LOPEZ, PH.D.	
SIGNATURE:	/MIGUEL A. LOPEZ, PH.D./	
DATE SIGNED:	07/14/2017	

PATENT REEL: 043010 FRAME: 0796

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Total Attachments: 3 source=AssignmentParent#page1.tif source=AssignmentParent#page2.tif source=AssignmentParent#page3.tif

PATENT REEL: 043010 FRAME: 0797

WORLDWIDE ASSIGNMENT

WHEREAS, <u>Haitao Cui, Wei Zhu, Benjamin Holmes and Lijie Grace Zhang</u>, hereinafter referred to as the Assignor, have invented a certain improvement relating to SMART RELEASE SYSTEM FOR GROWTH FACTOR DELIVERY AND COMBINED BONE AND VASCULAR GROWTH, for which said Assignor has caused an application for United States Letters Patent to be prepared,

	this Ass lemark Of	being ex	ecuted wi	th said	applicat	ion to t	e filed	l in the L	.S. Paten	t and
[] —			been file pplication				and 7	Frademark	Office	on
			ication hav Application				. Patent	and Trade	mark Offi	ce
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WHEREAS, The George Washington University, a Congressionally Chartered Not-for-Profit Corporation, having a principal place of business located at Rice Hall, Suite 601, 2121 I Street, NW, Washington, DC, 20052 hereinafter referred to as the Assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefore, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by Assignee to Assignor, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire and exclusive right, title, and interest for the United States in and to the invention, the application, any non-provisional application, and any patents which may be granted therefor, including any and all divisions, continuations, in whole or in part, substitutions, renewals, reissues, reexaminations, and extensions thereof, and all applications claiming priority therefrom; and Assignor authorizes and requests the Commissioner of Patents and Trademarks to issue all patents for the invention, or patents resulting therefrom, insofar as their interest is concerned, to Assignee; to have, hold, exercise, and enjoy, with all the rights, powers, privileges, and advantages in anywise arising therefrom or appertaining thereto, for and during the term or terms of any and all such patents when granted, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as Assignor might or could have held and enjoyed the same, if this assignment had not been made.

Assigner further hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire right, title and interest in all countries of the world, in and to the invention and in and to the application and all patents which may be granted therefor, and all national applications, regional applications, divisions, reissues, substitutions, continuations, in whole or in part, reexaminations, and extensions thereof, including the right to file applications and obtain patents for the invention in its own name, in all countries and including all rights of priority in all countries under the terms of any applicable international convention, insofar as its interest is concerned; and the Assignor hereby authorizes and requests the applicable patent office in each country of the world to issue all patents for the invention, or patents resulting therefrom, insofar as its interest is concerned, to the Assignee, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of such patents for the invention may issue, to the same extent as the Assignor would hold and enjoy if this Assignment had not been made.

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WORLDWIDE ASSIGNMENT

The Assignor further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agrees, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignce, its successors and assigns, to obtain, maintain and enforce proper patent protection for said invention.

	IN WITNESS WHEREOF, each individual collectively referred to as Assignor has caused this Assignment to be executed.	Haitao Cui
	Date: 08/26/2016	
	On this	
X	Substitute and its own to be to a pro-	Notary Public Wei Zhu
	Date: 08-26-20/6	
	On this 25^{++} day of 25^{++} personally came 36^{-} 25^{-} described in and who executed the foregoing instrument of the same.	
	Date: 8/25/16	Notary Public
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	Date: $8/25/2016$	Byńjamiń Hylpies
	On this 25th day of personally came Benjamin described in and who executed the foregoin	
	of the same.). Ma
	Date\$\frac{125/16}{}.	Notary Public /
	Date: 8/26/20/6	Lijie Grace Zhang
	On this	11.12 . <u>20/6</u> , before me <u>CE Zhang</u> , to me known to be the individual g instrument, and acknowledged execution
	of the same.	Notary Public /
" CO		
		Clietrics of Columbia: 88 Subscribed and Swom to below me This 25th day of 2014 - 2016
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