## 503753656 03/25/2016 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY DA	ТА			
		Name	Execution Date	
SARIT B. BHADURI			08/29/2014	
HUAN ZHOU			08/15/2014	
ANAND K. AGARWAL			09/26/2014	
VIJAY K. GOEL			08/18/2014	
RECEIVING PARTY DA	ГА			
Name:	THE UN	IIVERSITY OF TOLEDO		
Street Address:	2801 W	. BANCROFT STREET		
City:	TOLEDO			
State/Country:	OHIO			
Postal Code:	43606			
Property TypeApplication Number:15075				
		Number 15078391		
Application Number:		15078391		
Application Number: CORRESPONDENCE DA Fax Number:	ATA (	419)255-9639		
Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be	ATA ( e sent to	15078391 419)255-9639 <b>the e-mail address first; if that is uns</b>		
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Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	ATA e sent to provided	419)255-9639 <i>the e-mail address first; if that is uns</i> <i>; if that is unsuccessful, it will be sen</i> 419-255-5900 docketing@mstfirm.com MACMILLAN, SOBANSKI & TODD LLC 720 WATER STREET, 5TH FLOOR FOLEDO, OHIO 43604	t via US Mail.	
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Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NUMARE OF SUBMITTER:	ATA e sent to provided	419)255-9639 the e-mail address first; if that is uns ; if that is unsuccessful, it will be sen 19-255-5900 docketing@mstfirm.com MACMILLAN, SOBANSKI & TODD LLC 720 WATER STREET, 5TH FLOOR FOLEDO, OHIO 43604 1-57889 CATHERINE B. MARTINEAU	t via US Mail.	
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WHEREAS the undersigned inventor(s),

Sarit B. Bhaduri, of 9102 Rolling Hill Road, Holland, Ohio 43528,

Huan Zhou, of Yifu Science Building 714, Changzhou University, Gehu Road NC.1, Changzhou,

Jiang Su, China, 213164,

Anand K. Agarwal, of 2420 Hempstead Road, Ottawa Hills, Ohio 43606, and

Vijay K. Goel, of 20 Tremore Way, Holland, Ohio 43528,

have made certain inventions in a

## INJECTABLE, BIODEGRADABLE BONE CEMENTS AND METHODS OF MAKING AND USING SAME,

filed as *United States Serial No. 14/375,927*, filed *July 31, 2014*, which claims priority from *PCT/US2013/024040* filed *January 31, 2013*, which claims priority from *United States Serial No. 61/593,094*, filed *January 31, 2012*, and *United States Serial No. 61/697,059*, filed *September 5, 2012*, and,

WHEREAS, *The University of Toledo*, of *2801 W. Bancroft Street, Toledo, Ohio*, *43606* organized and operating in the State of Ohio, herein called "ASSIGNEE", is desirous of acquiring our entire right, title, and interest in said invention and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by the inventors, (all collectively hereinafter termed the "invention"), and application therefor, and in any patent or patents to be obtained therefor;

NOW, THEREFORE, To All Whom It May Concern, be it known that, for and in consideration of the sum of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, I/ we have sold, assigned, and transferred, and by these presents do-hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said Inventions, including the right to claim priority to said Inventions; (b) in and to all rights to all United States and corresponding non-United States patent applications and Patent(s), including those filed under the Paris Convention for the Protection of Industrial Property, The Patent Cooperation Treaty or otherwise; (c) in and to any and all applications filed and any and all Patent(s) granted on said Inventions in the United States, in any foreign country, or under any international convention, agreement, protocol, or treaty, including each and every application filed and any and all Patent(s) granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said Application(s); and (d) in and to each and every reissue, reexamination, or extensions of any of said Patent(s).

And I/ we further covenant and agree that I/ we will, at the request and expense of the said Assignee, execute such other and further assurances of title as may be necessary or proper to fully convey the interest herein sought to be conveyed; that I/ we will, at the request and expense of the said Assignee, execute such application papers as may be desired by the said Assignee for the filing of any application which is a divisional, substitution, continuation, or continuation-in-part of any of said Application(s), and each and every reissue, reexamination, or extensions of any of said Patent(s) that may be granted upon said application, and will execute such Supplemental Oaths and Preliminary Statements, or other papers as desired by the said Assignee.

And I / we further assign unto the said Assignee our whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Assignee to apply for patents therefor in its own name in countries where such procedure is proper and to claim the benefit of the International Convention and do agree to execute applications for the said invention in the several countries where it is necessary that the same be executed by the

Page 1 of 4

I / We do hereby authorize and request the Commissioner of Patents or other proper Officer, to issue such Letters Patent, or any of them, to the said Assignee, as the assignee of our entire right, title, and interest in and to the same for the sole use and behalf of the said Assignee, and its successors or assigns.

Date WITNESSED BY: Marish Kemos Ŵ Printed Name: MANISH KUHAR

Date: 8 29 2014

WITNESSED BY:

8/29/2014 Printed Name: SORN COC

Date:

	FF 799	
Date	Huan Zhou	
WITNESSED BY:		
Printed Name:		
Date:		
WITNESSED BY:		
Printed Name:		
Date:		

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	Sarit B. Bhaduri
Date	Jurn D. Ishuumi
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Printed Name:	
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I / We do hereby authorize and request the Commissioner of Patents or other proper Officer, to issue such Letters Patent, or any of them, to the said Assignee, as the assignee of our entire right, title, and interest in and to the same for the sole use and behalf of the said Assignee, and its successors or assigns.

<u>7/26/2014</u>	Anand K. Agarwal
WITNESSED BY:	Į.
Printed Name: MANOT KODIG	
Date: 09/26/14	
WITNESSED BY:	
Printed Name: ABHISKEK SA	war-
Date: 9/26/2014	
Date	Vijay K. Goel
WITNESSED BY:	
Printed Name:	
Date:	
WITNESSED BY:	
Printed Name:	
Date:	

I / We do hereby authorize and request the Commissioner of Patents or other proper Officer, to issue such Letters Patent, or any of them, to the said Assignee, as the assignee of our entire right, title, and interest in and to the same for the sole use and behalf of the said Assignee, and its successors or assigns.

Date	Anand K. Agarwal
WITNESSED BY:	
Printed Name:	
Date:	
WITNESSED BY:	
Printed Name:	
Date:	
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Aug 18, 2014	Vijay Goel
Date	Vijay Goel Vijay K. Goel
Date WITNESSED BY:	
Date WITNESSED BY:	
Date WITNESSED BY: Printed Name:	
Date WITNESSED BY: Printed Name:	

Page 3 of 3

#### PATENT REEL: 038098 FRAME: 0949

**RECORDED: 03/25/2016**