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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GAYATHRI SUBRAMANIAN	10/29/2018
MOSTAFA ELSAADANY	10/29/2018
EDA YILDIRIM-AYAN	11/08/2018

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16081977

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	57777-US-PCT/D2016-48
NAME OF SUBMITTER:	CATHERINE B. MARTINEAU
SIGNATURE:	/Catherine B. Martineau/
DATE SIGNED:	12/07/2018

Total Attachments: 4

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PATENT 505225433 REEL: 047708 FRAME: 0082

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PATENT REEL: 047708 FRAME: 0083 WHEREAS the undersigned inventor(s),

Gayathri Subramanian, Mostafa Elsaadany and, Eda Yildirim-Ayan

have made certain inventions in

Loading Platform for Three-Dimensional Tissue Engineered Scaffolds,

filed as a *United States Serial No. 16/081,977*, filed *September 4, 2018*, which claims priority to *PCT/US2017/020706*, filed *March 3, 2017*, which claims the benefit of *United States Provisional Application No. 62/303,674*, filed on *March 4, 2016*, 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 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 inventors, and to execute assignments of such applications and the patents to be obtained therefor to the said assignee, as well as all other necessary papers.

Page 1 of 3 PATENT
REEL: 047708 FRAME: 0084

1/ 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. 29 OCT 2018 Gayathri Subramanian Date WITNESSED BY: Printed Name: P.N.SUZRAMANIAN 29th October 2018 WITNESSED BY: Printed Name: PARVATH I SUKRAMANIAN Date: 29th October 2018 Mostafa Elsasdany Date WITNESSED BY: Printed Name: Date: WITNESSED BY: Printed Name: Date:

Page 2 of 3

ASSIGNMENT

57777-US-PCT/D2016-48

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	Gayathri Subramanian
	WITNESSED BY:	
	Printed Name:	
	Date:	
	WITNESSED BY:	
	-	
	Printed Name:	
	Date:	
Ø	<u>/2/2018</u> Date	Mostafa Elsaudany
	WITNESSED BY:	
	Printed Name: Julia Romero	
	Date:	
	WITNESSED BY:	
	<u> </u>	
	Printed Name: <u>Alshaimaa</u>	
	Date: 1c/24/2018	

PATENT REEL: 047708 FRAME: 0086

ASSIGNMENT

57777-US-PCT/D2016-48

11/08/2018		
Date		Eda Yifdirim-Ayan
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1/4/2		
Printed Name: HA	LIM ATAN	
Date:	8/7018	
WITNESSED BY:	alum	
Printed Name Many	E Albernan	
Date: 11	8/2018	

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PATENT REEL: 047708 FRAME: 0087

RECORDED: 12/07/2018