505896750 02/03/2020 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5943451

SUBMISSION TYPE:		NEW AS	SIGNMENT			
NATURE OF CONVEY	ANCE:	ASSIGN	ASSIGNMENT			
CONVEYING PARTY	DATA					
		Name				Execution Date
KEITH A. ROBY						01/29/2018
JOHN CHERNOSKY						02/11/2018
IMANTS LIEPINS						05/05/2017
BRADFORD J. COAL	E					01/30/2018
JACOB MACKE						01/30/2018
RECEIVING PARTY	DATA					
Name:	ZIMME	R, INC.				
Street Address:	1800 V	1800 W. CENTER STREET				
City:	WARS	WARSAW				
State/Country:	INDIA	INDIANA				
Postal Code:	46580					
Property Typ		1 - 0 - 7 - 7 - 0 - 0	Number			
Application Number:	:	15877769				
CORRESPONDENCE						
Fax Number:						
			dress first; if that is u		,	
<i>using a fax number,</i> Email:	if provide	<i>d; if that is uns</i> request@slwip	successful, it will be s	en	t via US Ma	ail.
Correspondent Name	e:		LUNDBERG & WOES	122	VER. P.A.	
Address Line 1:		P.O. BOX 293				
Address Line 4:		MINNEAPOLIS, MINNESOTA 55402				
ATTORNEY DOCKET	NUMBER:	4394.K5	5US1			
NAME OF SUBMITTE	R:	CHERYI	CHERYL BREYFOGLE			
SIGNATURE:		/Cheryl E	Breyfogle/			
DATE SIGNED: 02/03/2020						
Total Attachments: 7						
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RECORDATION FORM COVER SHEET PATENTS ONLY

Patent and Trademark Office Atty Ref/Docket No.: 4394.K55US1 To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: Zimmer, Inc. Keith A. Roby, John Chernosky, Imants Liepins, Bradford Street Address: 1800 W. Center Street J. Coale, Jacob Macke Additional name(s) of conveying party(ies) attached? City: Warsaw State: IN Zip: <u>46580</u> Country: United States of America []Yes [X]No Additional name(s) & address(es) attached? []Yes [X]No 3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: January 29, 2018, February 11, 2018, May 5, 2017, January 30, 2018, January 30, 2018 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) Serial No. 15/877,769 Additional numbers attached? []Yes [X]No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41):\$ 0.00 Name: David L. Buck [[Enclosed []Authorized to be charged to deposit account 19-Address: 0743 Schwegman Lundberg & Woessner, P.A. P.O. Box 2938 Please charge any additional fees or credit any over 8. Minneapolis, Minnesota 55402 payments to our Deposit Account No.: 19-0743

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

David L. Buck/Reg. No. 62,649 Name of Person Signing

David L. Buck Signature

January 31, 2020

Total number of pages including cover sheet: 6

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450 Alexandria, VA 22313-1450

> PATENT REEL: 051703 FRAME: 0337

ASSIGNMENT

We, Keith A. Roby, John Chernosky, Imants Liepins, Bradford J. Coale, Jacob Macke (hereinafter referred to as the "Undersigned"), for good and valuable consideration, receipt, sufficiency, and adequacy whereof is hereby acknowledged, do hereby assign to Zimmer, Inc., a Delaware corporation, having an office at 1800 W. Center Street, Warsaw, IN 46580 (hereinafter referred to as "Assignee"), the entire right, title and interest in the United States of America, its territories and possessions in and to any and all of the Undersigned's inventions and discoveries in, POROUS FIXATION DEVICES AND METHODS, as described and claimed in the Undersigned's patent application filed on January 23, 2018, which application was assigned US patent application, and in and to any divisions, continuations, continuations-in-part, reissues, reexaminations, extensions and renewals thereof, the same to be held and enjoyed by the Assignee, its successors, assigns or other legal representatives, to the full ends of the terms for which all patents therefore may be granted, as fully and entirely as the same would have been held, and enjoyed by us if this assignment had not been made.

The Undersigned hereby warrant and covenant that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned. Also, the Undersigned hereby agree that the Undersigned will at any time, upon the request and at the expense of the Assignee, execute and deliver any and all documents that may be necessary or desirable to divide, continue, perfect, confirm, import or register and to reissue the title to the foregoing inventions and discoveries, patent or design applications, and patents and reissues, reexaminations, extensions and renewals thereof in the Assignee, its successors, assigns or other legal representatives, and the Undersigned will make all rightful oaths and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of the Assignee, its successors, assigns or other legal representatives.

The Undersigned hereby further assign and transfer to the Assignee on the same terms and conditions as aforesaid all of the Undersigned's right, title and interest in and to the above-mentioned application and the invention and discoveries described therein in all other countries other than the

1

Serial No.: 15/877,769 Title: POROUS FIXATION DEVICES AND METHODS

United States of America and with effect for all multi-national organizations for the protection of intellectual property. This full assignment and transfer includes, but is not limited to, the assignment and transfer of the right to file an application for a patent or any other protective right in the Assignee's name, the right to claim priority to the above-identified application under the International Convention for the Protection of Industrial Property or under any other bilateral or multilateral agreement to which the United States of America is now or hereafter becomes a signatory or any other legal provision which allows claiming the priority of the assigned application, and the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement. The Undersigned also hereby assign to Assignee in all countries of the world any and all of the Undersigned's right, title and interest in and to any and all copyright property appertaining any drawings or other materials relating to the tangible means of expression and illustration of the aforesaid inventions and discoveries.

The Undersigned also hereby agree that this Assignment is to be binding on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

This document has been prepared in the English language at the request of the Undersigned.

Assignor[s]:

Keith A. Roby	1/29/2018	Keith Roby	/
	DATE	SIGNATURE	
John Chernosky	2/11/2018	19 m b. Champen	1
John Chemosky	DATE	SIGNATURE	

Serial No.: 15/877,769 Title: POROUS FIXATION DEVICES AND METHODS

Imants Liepins		/	/
	DATE	SIGNATURE	
Bradford J. Coale	1/30/2018	, Bradford Coale	/
	DATE	SIGNATURE	
Jacob Macke	1/30/2018	1 Just Mark	/
	DATE	SIGNATURE	

Assignee Docket No.: ZB00145PRV Attorney Docket No.: 4394.K55PRV

ASSIGNMENT

We, Keith A. Roby, John Chernosky, Imants Liepins, Bradford J. Coale, Jacob Macke (hereinafter referred to as the "Undersigned"), for good and valuable consideration, receipt, sufficiency, and adequacy whereof is hereby acknowledged, do hereby assign to Zimmer, Inc., a Delaware corporation, having an office at 1800 W. Center Street, Warsaw, IN 46580 (hereinafter referred to as "Assignee"), the entire right, title and interest in the United States of America, its territories and possessions in and to any and all of the Undersigned's inventions and discoveries in, POROUS FIXATION DEVICES AND METHODS, as described and claimed in the Undersigned's patent application filed on January 27, 2017, which application was assigned US patent application, and in and to any divisions, continuations, continuations-in-part, reissues, reexaminations, extensions and renewals thereof, the same to be held and enjoyed by the Assignee, its successors, assigns or other legal representatives, to the full ends of the terms for which all patents therefore may be granted, as fully and entirely as the same would have been held, and enjoyed by us if this assignment had not been made.

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The Undersigned hereby further assign and transfer to the Assignee on the same terms and conditions as aforesaid all of the Undersigned's right, title and interest in and to the above-mentioned application and the invention and discoveries described therein in all other countries other than the

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Serial No.: 62/451,405 Title: POROUS FIXATION DEVICES AND METHODS

United States of America and with effect for all multi-national organizations for the protection of intellectual property. This full assignment and transfer includes, but is not limited to, the assignment and transfer of the right to file an application for a patent or any other protective right in the Assignee's name, the right to claim priority to the above-identified application under the International Convention for the Protection of Industrial Property or under any other bilateral or multilateral agreement to which the United States of America is now or hereafter becomes a signatory or any other legal provision which allows claiming the priority of the assigned application, and the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement. The Undersigned also hereby assign to Assignee in all countries of the world any and all of the Undersigned's right, title and interest in and to any and all copyright property appertaining any drawings or other materials relating to the tangible means of expression and illustration of the aforesaid inventions and discoveries.

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Assignor[s]:

Keith A. Roby		/	/
	DATE	SIGNATURE	
John Chernosky		/	/
	DATE	SIGNATURE	

Serial No.: 62/451,405 Title: POROUS FIXATION DEVICES AND METHODS Assignee Docket No.: ZB00145PRV Attorney Docket No.: 4394.K55PRV

METHODS		
	-1-1-	
Imants Liepins	5/5/2017	m/ com
	DATE	SIGNATURE

Bradford J. Coale		/	1
	DATE	SIGNATURE	
Jacob Macke		/	/
	DATE	SIGNATURE	

Assignment