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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY D	ΑΤΑ	·			
		Name	Execution Date		
PETER W DILLION			02/12/2014		
DONALD R MACKAY			02/10/2014		
RANDY S. HALUCK			02/10/2014		
RECEIVING PARTY DA	ΔΤΔ				
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State/Country:		PENNSYLVANIA			
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	1.0001				
PROPERTY NUMBERS	S Total: 1				
Property Type		Number			
Application Number:	1:	3835719			
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SIGNATURE:		/Suzanne Gannon/	/Suzanne Gannon/		
DATE SIGNED:		03/13/2014	03/13/2014		
Total Attachments: 2		1			
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SOURCE-DSP5013USNP-	Inventors to	UPENN Res#page2.tif			

U.S. Serial No. 13/835,719 Filed March 15, 2013

ASSIGNMENT

FOR VALUE RECEIVED, and pursuant to my obligations under my employment agreements/appointments with THE PENNSYLVANIA STATE UNIVERSITY ("University"), we, (i) Peter W. Dillon, a citizen of United States of America, with an address of 7033 Red Top Road, Harrisburg, PA 17111; and (ii) Dr. Donald R. Mackay, a citizen of United States of America, with an address of 16 Foxanna Drive, Hershey, PA 17033: (iii) Dr. Randy S. Haluck, a citizen of the United States of America, with an address of 54 Oakhill Drive, Lititz, PA 17543, hereby sell, assign and transfer unto the University's designee, THE PENN STATE RESEARCH FOUNDATION, as assignee, and its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter invented by me and disclosed or claimed in an application for Letters Patent of the United States of America, entitled:

"BONE REPAIR SYSTEM, KIT AND METHOD"

signed by us on the date set forth below; and in and to any and all continuations, continuations-in-part, divisions, reissues, renewals, extensions, substitutions, additions or reexaminations of such application and any U.S. patents issuing thereon; and in and to any and all corresponding international and foreign applications for Letters Patent and any foreign patents issuing thereon; and all Convention and Treaty Rights of any kind, in all countries throughout the world, for all such subject matter; together with all claims for damages by reason of future, present and past infringement, with the right to sue for and collect the same for assignee's use and on behalf of assignee's successors, assigns and legal representative.

We request that any and all patents for said inventions be issued to said assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, I/we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing, maintaining and enforcing patents for said inventions in any and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of said assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

We covenant with said assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

Signed at Hershey, Pennsylvania, this	<u> </u>	13321ALX, 2014.
Witness: Manen White		Signed:
STATE OF PENNSYLVANIA	:	Peter W. Dillon
COUNTY OF Dauphin	: ss: :	
On this 12 th day of Februa aforesaid appeared Poter W Diller		, 2014, before me, a Notary Public in and for the county

aforesaid, appeared <u>Peter W. Dillon</u>, to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act for the uses and purposes therein expressed.

Witness my hand and seal the day and year last above given.

MANGAY Notaty Public [Page 1 of 2 – Signatures Continued on Rage 2 PERRY TWP., DAUPHIN GOUNTY My Commission Expires Mar 13, 2016

> PATENT REEL: 032425 FRAME: 0080

[Page 2 of 2 – Assignment Signatures Continue

Signed at Hershey, Pennsylvania, this 10 th day of	February 2014.	
Witness: <u>Captel Barrett</u>	Signed:	
	Donaldyk, Mackay	

STATE OF PENNSYLVANIA

COUNTY OF Dauphin

On this 10^{H} day of $\overline{\text{febuary}}$, 2014, before me, a Notary Public in and for the county and State aforesaid, appeared <u>Donald R. Mackay</u>, to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act for the uses and purposes therein expressed.

Witness my hand and seal the day and year last above given.

: SS:

NOTARIAL SEAL JILL B WAGNER Notary Public	MBWag-	MOTARIAL SEAL MATARY PUBIC MOTARIAL SEAL MY COMPLETION EXCLOSE	
DERRY TWP., DAUPHIN GOUNTY My Commission Expires Mar 13, 2016 Signed at Hershey, Pennsylvania, this	the day of February.	2014.	
Witness: <u>Michelle</u> Webber	Signed: Randy S. Haluck	ALA	
STATE OF PENNSYLVANIA	:		
COUNTY OF <u>Bauphin</u>	: ss: :		
INH Talaqua	with the second		

On this 10^{+2} day of $\pm ebruary$, 2014, before me, a Notary Public in and for the county and State aforesaid, appeared <u>Randy S. Haluck</u>, to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act for the uses and purposes therein expressed.

Witness my hand and seal the day and year last above given.

AHRAW AR	NOTARIAL SEAL JILL B WAGNER
Notary Public	Notary Public
	DEARY TWP. DAUPHIN COUNTY
	My Commission Expires Mar 13, 2016

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RECORDED: 03/13/2014