

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5789400

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JAMES A. SACK	01/14/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INSTITUTE FOR MUSCULOSKELETAL SCIENCE AND EDUCATION, LTD.
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<b>Postal Code:</b>	19087
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15819930
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<b>ATTORNEY DOCKET NUMBER:</b>	138-1047
<b>NAME OF SUBMITTER:</b>	JEREMY T. THISSELL
<b>SIGNATURE:</b>	/ Jeremy T. Thissell / Reg. #56065
<b>DATE SIGNED:</b>	10/25/2019
<b>Total Attachments: 1</b>	
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### ASSIGNMENT

**WHEREAS**, James A. Sack, a citizen of the United States of America, residing at Wayne, Pennsylvania, U.S.A., hereinafter referred to as the Assignor, has invented certain new and useful improvements in

Implant with Improved Flow Characteristics

for which an application for Letters Patent of the United States has been prepared,

- the Declaration for said application executed on even date herewith;
- said application having been filed in the United States Patent and Trademark Office on 11/21/2017 and accorded Serial Number 15/819,930, and was amended on \_\_\_ (if applicable);
- said application having been filed under the Patent Cooperation Treaty on \_\_\_\_\_ and accorded Application No. \_\_\_\_\_, the United States of America being designated;

**WHEREAS**, Institute for Musculoskeletal Science and Education, Ltd.  
418 E. Lancaster Avenue  
Wayne, PA 19087

hereinafter referred to as the Assignee, is desirous of acquiring the entire right, title and interest in and to the aforesaid invention and in and to any Letters Patent of the United States or any foreign country which may be granted therefor;

**NOW THEREFORE**, for good and valuable consideration the Assignor by these presents do sell, assign, and transfer unto the Assignee, its successors, legal representatives and assigns, the full and exclusive right to the invention as described in said application, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations and extensions thereof;

**AND** said Assignor authorizes and requests the Commissioner of Patents and Trademarks or any other proper officer or agency of any country to issue all said Letters Patent to said Assignee;

**AND** said Assignor warrants and covenants that I/We have full right to convey the entire interest herein assigned and that I/We have not executed and will not execute any instrument or assignment in conflict herewith;

**AND** said Assignor agrees to communicate to said Assignee or its representatives any facts known to me/us respecting said invention, to execute all divisional, continuation, reissue and foreign applications, sign all lawful documents and make all rightful oaths relating to said invention, and to testify in any judicial or administrative proceeding and generally do everything possible to aid the said Assignee to obtain and enforce said Letters Patent in the United States or any foreign country when requested so to do by said Assignee.

**IN WITNESS WHEREOF**, I/We have hereunto set my/our hand and seal.

Date: 11/14/19

Signature: James A. Sack  
Name: James A. Sack