

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5117423

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	BLACKSTONE MEDICAL, INC.	07/31/2018
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	JPMORGAN CHASE BANK, N.A., AS ADMINISTRATIVE AGENT	
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<b>City:</b>	CHICAGO	
<b>State/Country:</b>	ILLINOIS	
<b>Postal Code:</b>	60603	
<b>PROPERTY NUMBERS Total: 6</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Patent Number:</b>	10022157	
<b>Patent Number:</b>	9814594	
<b>Patent Number:</b>	9943349	
<b>Patent Number:</b>	9993271	
<b>Application Number:</b>	15237374	
<b>Application Number:</b>	15800011	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(214)745-5390	
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<b>Phone:</b>	214,745,5370	
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<b>ATTORNEY DOCKET NUMBER:</b>	58437-4	
<b>NAME OF SUBMITTER:</b>	JANIE MUENNINK	
<b>SIGNATURE:</b>	/jan muennink/	
<b>DATE SIGNED:</b>	08/29/2018	
<b>Total Attachments: 4</b>		

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## PATENT SECURITY AGREEMENT

August 10, 2018

WHEREAS, Blackstone Medical, Inc., a Massachusetts corporation ("Grantor"), owns the Patents and patent applications listed on Schedule 1 annexed hereto, and is a party to the Licenses listed on Schedule 1 annexed hereto; and

WHEREAS, pursuant to the terms of the First Amended and Restated Pledge and Security Agreement dated as of July 31, 2018 (as said Agreement may be amended and in effect from time to time, the "Security Agreement"; terms used herein but not defined herein shall have the meanings given to them in the Security Agreement), among Grantor, certain affiliates of Grantor, and JPMorgan Chase Bank, N.A., as administrative agent ("Secured Party"), Grantor has granted to Secured Party a security interest in substantially all the assets of Grantor including all right, title and interest of Grantor in, to and under all now owned and hereafter acquired Patents, patent applications and Licenses, and all products and proceeds thereof, to secure the payment of all Secured Obligations;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Grantor does hereby grant to Secured Party a continuing security interest in all of Grantor's right, title and interest in, to and under the following (all of the following items or types of property being herein collectively referred to as the "Patent Collateral"), whether presently existing or hereafter created or acquired:

- (1) each Patent and patent application, including, without limitation, each Patent and patent application referred to in Schedule 1 annexed hereto, together with any reissues, continuations, divisions, modifications, substitutions, or extensions thereof;
- (2) each License, including, without limitation, each License listed on Schedule 1 annexed hereto; and
- (3) all accessions to, substitutions for and replacements, Proceeds and products of the foregoing, including, without limitation, any claim by Grantor against third parties for past, present or future infringement of any Patent, including, without limitation, any Patent referred to in Schedule 1 annexed hereto, any Patent issued pursuant to a patent applications referred to in Schedule 1 annexed hereto and any Licensed under any License listed on Schedule 1 annexed hereto, together with all books and records, customer lists, credit files, computer files, programs, printouts and other computer materials and records related thereto and any General Intangibles at any time evidencing or relating to any of the foregoing

This security interest is granted in conjunction with the security interests granted to Secured Party pursuant to the Security Agreement. Grantor hereby acknowledges and affirms that the rights and remedies of Secured Party with respect to the security interest in the Patent Collateral made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein.

IN WITNESS WHEREOF, Grantor has caused this Patent Security Agreement to be duly executed by its duly authorized officer thereunto as of the first date written above.

Acknowledged:

**GRANTOR:**

BLACKSTONE MEDICAL, INC.

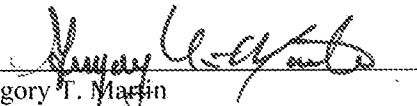
By: 

Name: Douglas C. Rice

Title: Chief Financial Officer and Treasurer

**SECURED PARTY:**

JPMORGAN CHASE BANK, N.A., as administrative agent

By:   
Name: Gregory T. Martin  
Title: Executive Director

Schedule 1  
to Patent  
Security Agreement

PATENTS AND PATENT APPLICATIONS

Application No.	Patent No.	Current Owner	Title	Country	Application Date	Grant Date	Status
14/947075	10022157	Blackstone Medical, Inc.	Blackstone Medical - CONVERTIBLE SCREW FOR SPINAL FIXATION	United States	20-Nov-15	17-Jul-18	Granted
14/954742	9814594	Blackstone Medical, Inc.	Blackstone Medical - INTERVERTEBRAL DISC PROSTHESIS AND METHOD	United States	30-Nov-15	14-Nov-17	Granted
15/050211	9943349	Blackstone Medical, Inc.	Blackstone Medical - ORTHOPEDIC DEVICES WITH A LOCKING MECHANISM	United States	22-Feb-16	17-Apr-18	Granted
15/068860	9993271	Blackstone Medical, Inc.	ROD ATTACHMENT ASSEMBLY FOR OCCIPITAL PLATE	United States	14-Mar-16	12-Jun-18	Granted
15/237374		Blackstone Medical, Inc.	Blackstone Medical - INTEGRATED RETRACTOR-DISTRACTOR SYSTEM FOR USE WITH MODULAR BONE SCREWS	United States	15-Aug-16		Filed
15/800011		Blackstone Medical, Inc.	Blackstone Medical - HOOK WITH ROTATING SADDLE AND ROTATABLE MONO AXIAL PEDICLE SCREW	United States	31-Oct-17		Filed