

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY AGREEMENT
CONVEYING PARTY DATA	
Name	Execution Date
Tutogen Medical, Inc.	07/16/2013
RECEIVING PARTY DATA	
Name:	TD Bank, N.A., as administrative agent
Street Address:	9715 N. Gate Parkway
City:	Jacksonville
State/Country:	FLORIDA
Postal Code:	32246
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	09195324
CORRESPONDENCE DATA	
Fax Number:	9043485873
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	904-346-5573
Email:	rvermut@rtlaw.com
Correspondent Name:	Richard S. Vermut
Address Line 1:	1301 Riverplace Blvd., Suite 1500
Address Line 4:	Jacksonville, FLORIDA 32207
ATTORNEY DOCKET NUMBER:	TD BANK
NAME OF SUBMITTER:	Richard S. Vermut
Signature:	/Richard S. Vermut/
Date:	07/26/2013
Total Attachments: 87 source=Dom Sub Patent Agrmt#page1.tif	

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## DOMESTIC SUBSIDIARY PATENT SECURITY AGREEMENT

This Domestic Subsidiary Patent Security Agreement (this "Agreement") is dated July 16<sup>th</sup>, 2013 (the "Effective Date"), by (i) each of: (A) Biological Recovery, Group, Inc., a Delaware corporation, (B) RTI Services, Inc., a Delaware corporation, (C) Regeneration Technologies, Inc. - Cardiovascular, an Alabama corporation, (D) Tutogen Medical, Inc., a Florida corporation, (E) Tutogen Medical (United States), Inc., a Florida corporation, (F) Pioneer Surgical Technology, Inc., a Michigan corporation, (G) Pioneer Surgical Orthobiologics, Inc., a Delaware corporation, and (H) Angstrom Acquisition Corp. II, a Delaware corporation (each, a "Domestic Subsidiary"); and delivered to (ii) TD Bank, N.A., a national banking association, as administrative agent (in such capacity, the "Administrative Agent") for itself and the other lending institutions ("Lenders") which are or may become parties to that certain Second Amended and Restated Loan Agreement, dated as of the Effective Date (as amended, modified, supplemented or restated and in effect from time to time, the "Loan Agreement"), by and among RTI Surgical, Inc., a Delaware corporation formerly known as RTI Biologics, Inc. ("Borrower"), Lenders and the Administrative Agent.

This Agreement is being executed contemporaneously with that certain Security Agreement, dated the Effective Date, between each Domestic Subsidiary and Administrative Agent (as it may be supplemented, restated, superseded, amended or replaced from time to time, the "Security Agreement"), under which each Domestic Subsidiary is granting Administrative Agent a lien on and security interest in certain assets of such Domestic Subsidiary associated with or relating to services or products sold under such Domestic Subsidiary's Patent Collateral (as defined in Section 1), and under which Administrative Agent is entitled to foreclose or otherwise deal with such assets under the terms and conditions set forth therein.

Each Domestic Subsidiary has rights with respect to: (i) the United States Letters Patents and the inventions and improvements described, disclosed and claimed therein set forth on Exhibit A, and in any patents or similar registrations and protections obtained for the foregoing in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties (collectively, the "Patents"); (ii) the applications for Letters Patents and the inventions and improvements described, disclosed and claimed therein set forth on Exhibit A and any United States Letters Patents which may be issued upon any of said applications, and any divisionals, continuations, continuations in part, continuing prosecution applications, and any related applications and other applications claiming priority from, or the benefit of, any of the foregoing, and in any applications or similar filings for protection made or obtained for the foregoing in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties (collectively, the "Applications"); (iii) any reissues, reexaminations, renewals, substitutes and extensions thereof (collectively, the "Reissued Patents"); and (iv) all proceeds from any causes of action for infringement, and any and all royalties for any licenses thereof, future royalties or proceeds or other fees paid or payments made to Borrower in respect of the Patents or Patent Applications or Reissued Patents (collectively, the "Royalties"; the Patents, the Applications, the Reissued Patents and the Royalties are referred to collectively as the "Patent Rights").

Pursuant to the Loan Agreement, Administrative Agent on behalf and for the benefit of Lenders is acquiring a lien on and security interest in the Patent Collateral of each Domestic Subsidiary and the registration thereof, as security for all of Borrower's Obligations (as defined in the Loan Agreement), and Administrative Agent desires to have its security interest in such Patent Collateral confirmed by a document identifying same and in such form that it may be recorded in the United States Patent and Trademark Office.

Now, therefore, with the foregoing background hereinafter deemed incorporated by reference and made a part hereof, and in consideration of the premises and mutual promises herein contained, the parties hereto, intending to be legally bound hereby, covenant and agree as follows:

1. In consideration of and pursuant to the terms of the Loan Agreement, and for other good, valuable and sufficient consideration, the receipt of which is hereby acknowledged, and to secure Borrower's Obligations, each Domestic Subsidiary grants to Administrative Agent on behalf and for the benefit of Lenders a lien on and security interest in all of the Patent Rights of such Domestic Subsidiary and all proceeds thereof and all such Domestic Subsidiary's right, title, interest, claims and demands that such Domestic Subsidiary has or may have in profits and damages for past and future infringements of the Patent Rights (such rights, interest, claims and demand referred to as the "Claims"; the Patent Rights and Claims are collectively referred to as the "Patent Collateral").

2. Each Domestic Subsidiary hereby covenants and agrees to maintain the Patent Collateral as permitted under applicable law in full force and effect until all of Borrower's Obligations are indefeasibly paid and satisfied in full.

3. Each Domestic Subsidiary represents and warrants to Administrative Agent that, with respect to all Patent Collateral material to Borrower or such Domestic Subsidiary's operations as of the Closing Date: (a) such Domestic Subsidiary is the sole and exclusive owner of the entire and unencumbered right, title and interest in and to such Patent Collateral as set forth on Exhibit A; (b) such Patent Collateral is subsisting and has not been adjudged invalid or unenforceable; (c) all of the Patent Rights are registered, valid and enforceable; (d) such Patent Collateral is free and clear of any liens, charges and encumbrances including, without limitation, pledges, assignments, licenses (other than to such Domestic Subsidiary and Administrative Agent hereunder) and covenants by such Domestic Subsidiary not to sue third persons; (e) such Domestic Subsidiary has no notice of any suits, actions or administrative proceedings or changes to such Patent Rights, commenced or threatened against it, or notice of claims asserted or threatened against it, with reference to such Patent Collateral; (f) such Domestic Subsidiary has the unqualified right, power and authority to enter into this Agreement and perform its terms; (g) such Domestic Subsidiary has complied with, and will continue for the duration of this Agreement to comply with the requirements set forth in 35 U.S.C. §1 et seq. and any other applicable statutes, rules and regulations in connection with its use of such Patent Collateral, including the timely payment of all maintenance fees, except where failure to comply would not have a Material Adverse Effect; and (h) such Domestic Subsidiary has used and will continue to use for the duration of this Agreement, consistent standards of quality in services or products leased or sold under such Patent Collateral and hereby grants to Administrative Agent and its employees and agents the right (with no obligation of any kind upon Administrative Agent to do so) to visit such Domestic Subsidiary's affiliates, franchises or management locations and to inspect the use of such Patent Collateral and quality control records relating thereto at reasonable times during regular business hours to ensure such Domestic Subsidiary's compliance with this Section 3(h).

4. Each Domestic Subsidiary covenants that: (a) until all the Borrower's Obligations due under the Loan Documents are indefeasibly paid and satisfied in full, such Domestic Subsidiary will not enter into any agreement, including, without limitation, license agreements or options, which are inconsistent with such Domestic Subsidiary's obligations under this Agreement, Borrower's obligations under the Loan Agreement or which restrict or impair Administrative Agent's rights hereunder; and (b) if such Domestic Subsidiary acquires rights to any new Patent Collateral, or Patent applications or inventions or improvements, the provisions of this Agreement shall automatically apply thereto and such Patent Collateral shall be deemed part of the Patent Collateral. Each Domestic Subsidiary shall give Administrative Agent prompt written notice thereof along with an amended Exhibit A.

5. So long as this Agreement is in effect and so long as Borrower has not received notice from Administrative Agent that an Event of Default has occurred and is continuing under the Loan Agreement and that Administrative Agent has not elected to exercise its rights hereunder: (a) such Domestic Subsidiary shall continue to have the exclusive right to use the Patent Collateral material to its operations; and (b) except as otherwise permitted under the Loan Agreement, Administrative Agent shall have no right to use the Patent Collateral or issue any exclusive or non-exclusive license with respect thereto, or assign, pledge or otherwise transfer title in the Patent Collateral to anyone else.

6. Each Domestic Subsidiary agrees not to sell, license, grant any option, assign or further encumber its rights and interest in the Patent Collateral to any entity or person other than Administrative Agent without the prior written consent of Administrative Agent.

7. Except as otherwise permitted under the Loan Agreement, anything herein contained to the contrary notwithstanding, if and while an Event of Default exists under the Loan Agreement, each Domestic Subsidiary hereby covenants and agrees that Administrative Agent, as the holder of a security interest under the Uniform Commercial Code, as now or hereafter in effect from time to time, in the State of Florida, may take such action permitted hereunder, in its exclusive discretion, to foreclose upon the Patent Collateral covered hereby. For such purposes, while an Event of Default exists, such Domestic Subsidiary hereby authorizes and empowers Administrative Agent to make, constitute and appoint any officer or agent of Administrative Agent as Administrative Agent may select, in its exclusive discretion, as such Domestic Subsidiary's true and lawful attorney-in-fact, with the power to endorse such Domestic Subsidiary's name on all applications, documents, papers and instruments necessary for Administrative Agent to use the Patent Collateral or to grant or issue any exclusive or non-exclusive license under the Patent Collateral to anyone else, or necessary for Administrative Agent to assign, pledge, convey or otherwise transfer title in or dispose of the Patent Collateral to anyone else including, without limitation, the power to execute a Patent Assignment in the form of Exhibit B. Each Domestic Subsidiary hereby ratifies all that such attorney or agent shall lawfully do or cause to be done by virtue hereof, except for the gross negligence or willful misconduct of such attorney or agent. This power of attorney shall be irrevocable for the life of this Agreement, the Loan Documents, and until all Borrower's Obligations under the Loan Documents are indefeasibly paid and satisfied in full.

8. This Agreement shall be subject to the terms, provisions, and conditions set forth in the Loan Agreement and may not be modified without the written consent of the party against whom enforcement is being sought.

9. All rights and remedies herein granted to Administrative Agent shall be in addition to any rights and remedies granted to Administrative Agent and Lenders under the Loan Documents. In the event of an inconsistency between this Agreement and Loan Agreement, the language of this Agreement shall control.

10. Upon Borrower's performance of all of the obligations under the Loan Documents and after all of Borrower's Obligations under the Loan Documents are indefeasibly paid and satisfied in full, Administrative Agent shall, at Borrower's expense, execute and deliver to each Domestic Subsidiary all documents reasonably necessary to terminate Administrative Agent's security interest in the Patent Collateral.

11. Any and all reasonable fees, costs and expenses, of whatever kind or nature, including the reasonable attorneys' fees and legal expenses incurred by Administrative Agent in connection with the preparation of this Agreement and all other documents relating hereto and the consummation of this transaction, the filing or recording of any documents (including all taxes in connection therewith) in public offices, the payment or discharge of any taxes, reasonable counsel fees, maintenance fees,

encumbrances or costs otherwise incurred in protecting, maintaining, preserving the Patent Collateral, or in defending or prosecuting any actions or proceedings arising out of or related to the Patent Collateral, in each case in accordance with the terms of this Agreement, shall be borne and paid by such Domestic Subsidiary on demand by Administrative Agent and until so paid shall be added to the principal amount of Borrower's Obligations to Administrative Agent and shall bear interest at the otherwise applicable rate prescribed in the Loan Agreement.

12. Subject to the terms of the Loan Agreement, each Domestic Subsidiary shall have the duty to prosecute diligently any application and/or registration with respect to the Patent Collateral pending as of the date of this Agreement or thereafter, until Borrower's Obligations under the Loan Documents are indefeasibly paid and satisfied in full, to preserve and maintain all rights in the Patent Collateral material to its operations, and upon reasonable request of Administrative Agent, such Domestic Subsidiary shall make federal application on registerable but unregistered Patent Collateral belonging to such Domestic Subsidiary and licensed to such Domestic Subsidiary. Any reasonable expenses incurred in connection with such applications shall be borne exclusively by such Domestic Subsidiary. Such Domestic Subsidiary shall not allow any Patent Collateral to lapse without the prior written consent of Administrative Agent.

13. Each Domestic Subsidiary shall have the right to bring suit in its own name to enforce the Patent Collateral, in which event Administrative Agent may, if such Domestic Subsidiary reasonably deems it necessary, be joined as a nominal party to such suit if Administrative Agent shall have been satisfied, in its sole discretion, that it is not thereby incurring any risk of liability because of such joinder. Borrower shall promptly, upon demand, reimburse and indemnify Administrative Agent for all damages, costs and expenses, including reasonable attorneys' fees and costs, incurred by Administrative Agent in the fulfillment of the provisions of this section.

14. Upon the occurrence and continuance of an Event of Default under the Loan Agreement, Administrative Agent may, without any obligation to do so, complete any obligation of any Domestic Subsidiary hereunder, in such Domestic Subsidiary's name or in Administrative Agent's name, but at the expense of such Domestic Subsidiary.

15. No course of dealing between Borrower or any Domestic Subsidiary and Administrative Agent or any Lender, nor any failure to exercise, nor any delay in exercising, on the part of Administrative Agent or any Lender, any right, power or privilege hereunder, shall operate as a waiver thereof, and all of Lender's rights and remedies with respect to the Patent Collateral, whether established hereby or by the Loan Documents, or by any other future agreements between Borrower, any Domestic Subsidiary and Administrative Agent or any Lender or by law, shall be cumulative and may be exercised singularly or concurrently.

16. This Agreement shall inure to the benefit of and be binding upon the successors and assigns of each of the parties. No Domestic Subsidiary may transfer, assign or delegate any of its duties or obligations hereunder.

17. THIS AGREEMENT, AND ALL MATERS ARISING OUT OF OR RELATING TO THIS AGREEMENT, AND ALL RELATED AGREEMENTS AND DOCUMENTS, SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE SUBSTANTIVE LAWS OF THE STATE OF FLORIDA. THE PROVISIONS OF THIS AGREEMENT AND ALL OTHER AGREEMENTS AND DOCUMENTS REFERRED TO HEREIN ARE TO BE DEEMED SEVERABLE, AND THE INVALIDITY OR UNENFORCEABILITY OF ANY PROVISION SHALL NOT AFFECT OR IMPAIR THE REMAINING PROVISIONS WHICH SHALL CONTINUE IN FULL FORCE AND EFFECT.

18. Each Domestic Subsidiary hereby irrevocably consents to the non-exclusive jurisdiction of the Courts of the State of Florida or the United States District Court for the Middle District of Florida in any and all actions and proceedings whether arising hereunder or under any other agreement or undertaking. Each Domestic Subsidiary waives any objection which such Domestic Subsidiary may have based upon lack of personal jurisdiction, improper venue or forum non conveniens. Each Domestic Subsidiary irrevocably agrees to service of process by certified mail, return receipt requested to the address of the appropriate party set forth for Borrower in the Loan Agreement.

19. EACH DOMESTIC SUBSIDIARY (AND ADMINISTRATIVE AGENT BY ITS ACCEPTANCE HEREOF) HEREBY WAIVES ANY AND ALL RIGHTS IT MAY HAVE TO A JURY TRIAL IN CONNECTION WITH ANY LITIGATION, PROCEEDING OR COUNTERCLAIM ARISING WITH RESPECT TO RIGHTS AND OBLIGATIONS OF THE PARTIES HERETO OR UNDER THE LOAN DOCUMENTS OR WITH RESPECT TO ANY CLAIMS ARISING OUT OF ANY DISCUSSIONS, NEGOTIATIONS OR COMMUNICATIONS INVOLVING OR RELATED TO ANY PROPOSED RENEWAL, EXTENSION, AMENDMENT, MODIFICATION, RESTRUCTURE, FORBEARANCE, WORKOUT, OR ENFORCEMENT OF THE TRANSACTIONS CONTEMPLATED HEREUNDER OR UNDER THE LOAN DOCUMENTS.

*[SIGNATURES APPEAR ON NEXT PAGE]*



The parties hereto have executed this Domestic Subsidiary Patent Security Agreement, under seal, as of the Effective Date.

BIOLOGICAL RECOVERY, GROUP, INC.  
RTI SERVICES, INC.  
REGENERATION TECHNOLOGIES, INC. -  
CARDIOVASCULAR  
TUTOGEN MEDICAL, INC.  
TUTOGEN MEDICAL (UNITED STATES), INC.  
PIONEER SURGICAL TECHNOLOGY, INC.  
PIONEER SURGICAL ORTHOBIOLOGICS, INC.  
ANGSTROM ACQUISITION CORP. II

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Approved and Accepted:

TD BANK, N. A.

By: 

Name: M. the Nursey

Title: Regional Vice President

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PIONEER SURGICAL TECHNOLOGY, INC.  
PIONEER SURGICAL ORTHOBIOLOGICS, INC.  
ANGSTROM ACQUISITION CORP. II

By: Brian Hutchison

Name: ROBERT P. JORDHEIM

Title: President & CEO  
EXECUTIVE V.P. & C.F.O.

Approved and Accepted:

TD BANK, N. A.

By: \_\_\_\_\_


Name: \_\_\_\_\_

Title: \_\_\_\_\_

UNITED STATES OF AMERICA  
STATE OF FLORIDA  
COUNTY OF ALACHUA

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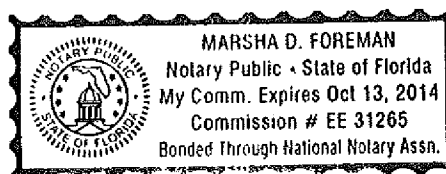
*Martha A. Gorman*  
Notary Public



**MARSHA D. FOREMAN**  
 Notary Public - State of Florida  
 My Comm. Expires Oct 13, 2014  
 Commission # EE 31265  
 Bonded Through National Notary Assn.

UNITED STATES OF AMERICA :  
STATE OF FLORIDA : SS  
COUNTY OF ALACHUA :

Michael D. Sommer  
Notary Public



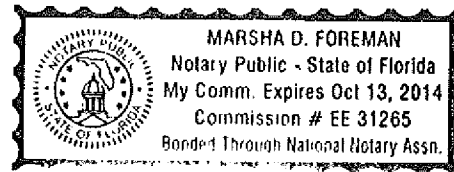
## CORPORATE ACKNOWLEDGMENT

UNITED STATES OF AMERICA :  
STATE OF FLORIDA : SS  
COUNTY OF ALACHUA :

On this 16<sup>th</sup> day of July, 2013, before me personally appeared BRIAN K. HUTCHISON, to me known and being duly sworn, deposes and says that he is the PRESIDENT & C.E.O. of REGENERATION TECHNOLOGIES, INC. - CARDIOVASCULAR, INC., the corporation described in the foregoing Agreement; that he knows the seal of the corporation; that the seal so affixed to the Agreement is such corporate seal; that he/she signed the Agreement and affixed the seal of the corporation thereto as such officer pursuant to the authority vested in him/her by law; that the within Agreement is the voluntary act of such corporation; and he/she desires the same to be recorded as such.

Monica D. Lemaire  
Notary Public

My Commission Expires:



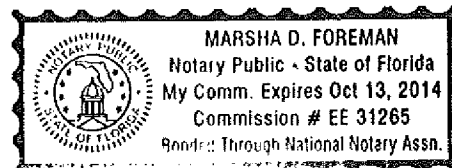
CORPORATE ACKNOWLEDGMENT

UNITED STATES OF AMERICA :  
STATE OF FLORIDA : SS  
COUNTY OF ALACHUA :

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\_\_\_\_\_  
Notary Public

My Commission Expires:



CORPORATE ACKNOWLEDGMENT

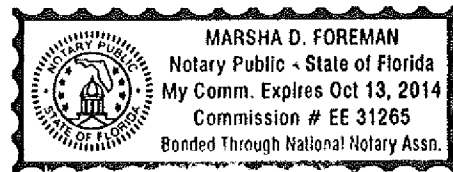
UNITED STATES OF AMERICA  
STATE OF FLORIDA  
COUNTY OF ALACHUA

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: SS  
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Marsha D. Foreman  
Notary Public

My Commission Expires:

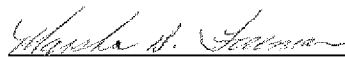


CORPORATE ACKNOWLEDGMENT

UNITED STATES OF AMERICA  
STATE OF FLORIDA  
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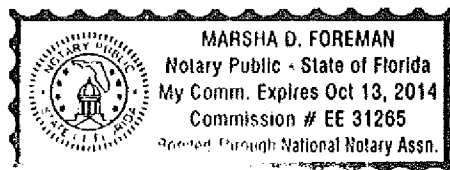
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Notary Public

My Commission Expires:





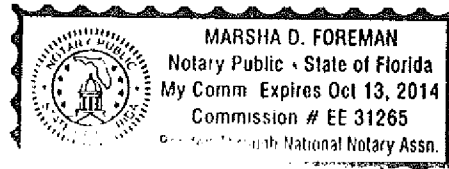
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Marsha D. Foreman  
Notary Public

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Marsha D. Foreman  
Notary Public

My Commission Expires:



**Exhibit A to Patent Security Agreement**

(A) Biologic Recovery Group, Inc.

None.

(B) RTI Services, Inc.

None.

(C) Regeneration Technologies, Inc. – Cardiovascular

None.

(D) Tutogen Medical, Inc.

Title	Serial No	Country	Filing Date
Fixation element	09/195324	US	11/18/1998

(E) Tutogen Medical (United States), Inc.

None.

(F) RTI Donor Services, Inc.

None.

(G) Pioneer Surgical Technology, Inc.

Title	Serial No	Country	Filing Date
KNOTTED CABLE ATTACHMENT APPARATUS FORMED OF BRAIDED POLYMERIC FIBERS	08/346852	US	30-Nov-94
KNOT	08/405011	US	15-Mar-95

**Exhibit A to Patent Security Agreement**

SYSTEM AND METHOD FOR SPINAL RECONSTRUCTION	09/968694	US	1-Oct-01
Bone Plate System And Method	61/728930	US	21-Nov-12
Systems and Methods for Inserting an Artificial Disc into an Intervertebral	61/715164	US	17-Oct-12
Bone Plate System & Method	61/710354	US	5-Oct-12
SYSTEMS AND METHODS FOR INSERTING AN EXPANDABLE INTERVERTEBRAL DEVICE	61/798736	US	15-Mar-13
CABLE TENSIONING DEVICE	10/037226	US	21-Dec-01
CABLE TENSIONING DEVICE	09/320879	US	27-May-99
Cable system for bone securance	08/803503	US	20-Feb-97

Exhibit A to Patent Security Agreement

MINIMALLY INVASIVE SURGICAL SYSTEM	11/844265	US	23-Aug-07
CABLE TENSIONING DEVICE	08/923043	US	3-Sep-97
Cable system for bone securance	08/573452	US	15-Dec-95
MULTIPLE LUMEN CRIMP	10/071679	US	8-Feb-02
SYSTEM AND METHOD FOR BONE FIXATION	10/809248	US	25-Mar-04
CANNULATED BONE SCREW	11/691247	US	26-Mar-07
ARTIFICIAL INTERVERTEBRAL DISC DEVICE	11/184625	US	19-Jul-05
Artificial disc device	13/585607	US	14-Aug-12

Exhibit A to Patent Security Agreement

LOW PROFILE SPINAL FIXATION SYSTEM	10/549873	US	30-Oct-06
CROSSLINK FOR SECURING SPINAL RODS	11/408629	US	21-Apr-06
SYSTEM AND METHODS FOR INSERTING A SPINAL DISC DEVICE INTO AN INTEVERTEBRAL SPACE	13/399275	US	17-Feb-12
MINIMALLY INVASIVE SURGICAL SYSTEM	11/844277	US	23-Aug-07
RETRACTION APPARATUS AND METHOD FOR USE	12/161944	US	11-Sep-08
BONE PLATE SYSTEM	13/747131	US	22-Jan-13
PROVISIONALLY LOCKING COUPLING ASSEMBLY AND METHODS FOR BONE FIXATION	13/846562	US	18-Mar-13
INTERVERTEBRAL IMPLANT DEVICES FOR SUPPORTING VERTEBRAE AND DEVICES AND METHODS FOR INSERTION THEREOF	13/923463	US	21-Jun-13

Exhibit A to Patent Security Agreement

Surgical Cable Tensioning Apparatus and Method	13/598283	US	29-Aug-12
CEMENT PRODUCTS AND METHODS OF MAKING AND USING THE SAME	12/200918	US	28-Aug-08
INJECTABLE FILLERS FOR AESTHETIC MEDICAL ENHANCEMENT AND FOR THERAPEUTIC APPLICATIONS	13/588809	US	17-Aug-12
CONTINUOUS MATRIX WITH OSTEOCONDUCTIVE PARTICLES DISPERSED THEREIN, METHOD OF FORMING THEREOF, AND METHOD OF REGENERATING BONE THEREWITH	13/722237	US	20-Dec-12
ROTATABLE CABLE DRUM WITH AUTOMATIC CABLE LOCK	08/705135	US	29-Aug-96
CABLE TENSIONING DEVICE	08/616687	US	15-Mar-96
Cable system for bone securance	08/201614	US	24-Feb-94
CABLE CONNECTOR FOR ORTHOPAEDIC ROD	09/241980	US	2-Feb-99

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MULTIPLE LUMEN CRIMP	09/467436	US	20-Dec-99
METHOD AND APPARATUS FOR BONE FRACTURE FIXATION	08/346152	US	29-Nov-94
CABLE CRIMP SYSTEM	08/534783	US	27-Sep-95
CROSSLINK FOR IMPLANTABLE RODS	08/582166	US	2-Jan-96
SURGICAL ROD-TO-BONE ATTACHMENT	08/603847	US	22-Feb-96
SURGICAL CABLE SCREW CONNECTOR	08/648685	US	16-May-96
Intramedullary bone fixation rod	09/243988	US	3-Feb-99
SPINAL FIXATION SYSTEM * * co-owned with Michigan Technological University	09/561248	US	27-Apr-00



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SPINAL FIXATION SYSTEM	10/104487	US	25-Mar-02
EXTERNAL FIXATION APPARATUS AND METHOD	10/074607	US	11-Feb-02
SURGICAL CABLE ASSEMBLY AND METHOD	09/608536	US	30-Jun-00
SYSTEM AND METHOD FOR BONE FIXATION	10/007146	US	3-Dec-01
CANNULATED BONE SCREW	10/365698	US	12-Feb-03
ARTIFICIAL INTERVERTEBRAL DISC DEVICE	10/282620	US	29-Oct-02
ARTIFICIAL DISC DEVICE	10/692468	US	22-Oct-03
Artificial disc device	10/971734	US	22-Oct-04

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JOINT ARTHROPLASTY DEVICES HAVING ARTICULATING MEMBERS	11/856565	US	17-Sep-07
BONE PLATE SYSTEM	10/553940	US	2-Feb-07
LOW PROFILE SPINAL FIXATION SYSTEM	10/358530	US	5-Feb-03
CROSSLINK FOR SECURING SPINAL RODS	10/692460	US	22-Oct-03
SPINAL STABILIZATION DEVICE AND METHODS	11/259403	US	26-Oct-05
BONE PLATE SYSTEM AND METHODS	10/973891	US	26-Oct-04
BONE PLATE SYSTEM AND METHODS	11/259714	US	26-Oct-05
APPARATUS AND METHOD FOR REPAIRING THE FEMUR	09/775891	US	2-Feb-01

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INSERTION INSTRUMENT FOR ARTIFICIAL DISCS	11/836234	US	9-Aug-07
SYSTEM AND METHODS FOR INSERTING A SPINAL DISC DEVICE INTO AN INTEVERTEBRAL SPACE	11/836621	US	9-Aug-07
INTERVERTEBRAL DISC SPACE SIZING TOOLS AND METHODS	12/368964	US	10-Feb-09
APPARATUS AND METHOD FOR IMPLANTATION OF SURGICAL DEVICES	12/088104	US	21-Oct-08
SPINAL FIXATION SYSTEMS	12/067616	US	31-Jul-08
MINIMALLY INVASIVE SURGICAL SYSTEM	11/844259	US	23-Aug-07
RETRACTION APPARATUS AND METHOD FOR USE	11/539224	US	6-Oct-06
INTERLAMINAR STABILIZING SYSTEM	12/161676	US	5-Jan-11

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SPINAL STABILIZATION DEVICE AND METHODS	11/750612	US	18-May-07
MINIMALLY INVASIVE SURGICAL SYSTEM	12/438538	US	23-Aug-10
TRANSVERSE CONNECTOR	11/776449	US	11-Jul-07
Methods and Apparatus for Clamping Surgical Wires or Cables	09/442293	US	19-Nov-99
METHOD AND APPARATUS FOR CLAMPING SURGICAL WIRES OR CABLES	09/994088	US	14-Nov-01
SYSTEM AND METHODS FOR INSERTING A SPINAL DISC DEVICE INTO AN INTERVERTEBRAL SPACE	11/860470	US	24-Sep-07
SYSTEMS AND METHODS FOR SIZING, INSERTING AND SECURING ARTI FICIAL DISC IN INTERVERTEBRAL SPACE	11/856667	US	17-Sep-07
LOW TOP BONE FIXATION SYSTEM AND METHOD FOR USING THE SAME	11/726868	US	22-Mar-07

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SPINAL ROD ANCHOR DEVICE AND METHOD	11/839843	US	16-Aug-07
SPINAL ROD REDUCER AND CAP INSERTION APPARATUS	12/031655	US	14-Feb-08
INTERVERTEBRAL IMPLANT DEVICES AND METHODS FOR INSERTION THEREOF	12/026895	US	6-Feb-08
MOUNTING DEVICES FOR FIXATION DEVICES AND INSERTION INSTRUMENTS USED THEREWITH	11/854393	US	12-Sep-07
FUSION DEVICE, SYSTEM AND METHODS THEREOF	12/445936	US	28-Sep-10
IMPLANT RETENTION DEVICE AND METHOD	11/963727	US	21-Dec-07
IMPLANT RETENTION DEVICE AND METHODS	11/963745	US	21-Dec-07
IMPLANT RETENTION DEVICE AND METHOD	11/963496	US	21-Dec-07

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BONE PLATE SYSTEM	12/167666	US	3-Jul-08
BONE PLATE SYSTEM	12/199321	US	27-Aug-08
INTERLAMINAR STABILIZATION SYSTEM	12/234557	US	19-Sep-08
PROVISIONALLY LOCKING COUPLING ASSEMBLY AND METHODS FOR BONE FIXATION	12/257285	US	23-Oct-08
BONE PLATE SYSTEM	12/429934	US	24-Apr-09
BONE PLATE SYSTEM	13/936747	US	8-Jul-13
ROD LOCKING INSTRUMENT	12/362429	US	29-Jan-09
ELECTRICAL CONNECTOR FOR SURGICAL SYSTEMS	12/396249	US	2-Mar-09

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INTERVERTEBRAL IMPLANT DEVICES FOR SUPPORTING VERTEBRAE AND DEVICES AND METHODS FOR INSERTION THEREOF	12/417356	US	2-Apr-09
MOTION PRESERVING ARTIFICIAL INTERVERTEBRAL DISC DEVICE	12/436032	US	5-May-09
INSERTION Instrument FOR SPINAL FIXATION SYSTEM	12/423786	US	14-Apr-09
SYSTEM AND METHOD FOR SECURING AN ARTIFICIAL INTERVERTEBRAL DISC	12/541658	US	14-Aug-09
RETRACTION APPARATUS AND METHOD of Use	12/475067	US	29-May-09
Surgical Cable Tensioning Apparatus and Method	12/540303	US	12-Aug-09
Low Profile Dual Locking Fixation System and Offset Anchor Member	12/579345	US	14-Oct-09
INTERVERTEBRAL IMPLANT DEVICES AND METHODS FOR INSERTAINO THEREOF	12/685618	US	11-Jan-10

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Wide Angulation Coupling Members for Bone Fixation Systems	12/704149	US	11-Feb-10
SYSTEMS AND METHODS FOR SIZING, INSERTING AND SECURING AN IMPLANT IN INTERVERTEBRAL SPACE	12/721485	US	10-Mar-10
INSERTION INSTRUMENT FOR ARTIFICIAL DISCS	12/727211	US	18-Mar-10
METHOD OF PACKAGING A SURGICAL CABLE	12/772877	US	3-May-10
SIZE TRANSITION SPINAL ROD	12/871893	US	30-Aug-10
INTERVERTEBRAL IMPLANT DEVICES AND METHODS FOR INSERTION THEREOF	12/945785	US	12-Nov-10
LOW FRICTION ROD PERSUADER	12/977968	US	23-Dec-10
Occipital Plate for Spinal Fusion	12/983207	US	31-Dec-10



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Spinal Rod and Screw Securing Apparatus and Method	13/025715	US	11-Feb-11
DEVICE FOR SECURING AN IMPLANT TO TISSUE	13/035732	US	25-Feb-11
Bone Plate System	13/069354	US	22-Mar-11
MINIMALLY INVASIVE SURGICAL SYSTEM	13/083347	US	8-Apr-11
DRIVER FOR A SURGICAL DEVICE	13/272931	US	13-Oct-11
SPINAL FIXATION SYSTEM AND METHOD	13/366117	US	3-Feb-12
Apparatus and Method for Enlarging an Incision	13/415673	US	8-Mar-12
Bone Plate System and Method	13/728878	US	27-Dec-12

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BONE PLATE SYSTEM AND METHOD	13/837615	US	15-Mar-13
Bone Anchor Assembly, Bone Plate System, And Method	13/725420	US	21-Dec-12
Apparatus and Methods for Immobilization and Fusion of the Synovial Joint	13/594555	US	24-Aug-12
CROSS LINK FOR SPINAL ROD SYSTEM	13/608366	US	10-Sep-12
INTERVERTEBRAL IMPLANT	13/648086	US	9-Oct-12
Adjustable Occipital Plate Device	13/710058	US	10-Dec-12
TENSIONING INSTRUMENT AND METHOD	13/730597	US	28-Dec-12
Systems and Methods for Inserting a Spinal Device	13/725322	US	21-Dec-12

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MIXING SYRINGE	29/378941	US	11-Nov-10
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(H) Pioneer Surgical Orthobiologics, Inc.

Title	Serial No	Country	Filing Date
Methods and Compositions for Regenerating Connective Tissue	13/600642	US	31-Aug-12
Methods and Compositions for Regenerating Connective Tissue	13/600661	US	31-Aug-12
Cross-Linked Bioactive Hydrogel Matrices	13/793644	US	11-Mar-13
Methods and Compositions for Regenerating Connective Tissue	12/356213	US	20-Jan-09
Cross-Linked Bioactive Hydrogel Matrices	13/252500	US	4-Oct-11
Methods and Compositions for Regenerating Connective Tissue	12/356195	US	20-Jan-09

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SPECIFIC HIGHLY SENSITIVE NESTED	09/543106	US	5-Apr-00
Cross-Linked Bioactive Hydrogel Matrices	12/782322	US	18-May-10
Immobilized Bioactive Hydrogel Matrices As Surface Coatings	11/937851	US	9-Nov-07
Methods and Compositions for Regenerating Connective Tissue	12/039214	US	28-Feb-08
BIOARTIFICIAL ENDOCRINE DEVICE	08/346340	US	28-Nov-94
ELECTROCHEMICAL BIOSENSORS	08/602909	US	17-May-96
SPECIFIC HIGHLY SENSITIVE NESTED	09/069811	US	29-Apr-98
Method of Treating Chronic Ulcers	09/870414	US	30-May-01

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METHOD OF STIMULATING HAIR GROWTH	09/870424	US	30-May-01
Cross-Linked Bioactive Hydrogel Matrices	10/372643	US	21-Feb-03
Immobilized Bioactive Hydrogel Matrices As Surface Coatings	10/372757	US	21-Feb-03
CRYOPRESERVATION OF CELLS USING CROSS-LINKED BIOACTIVE HYDROGEL MATRIX PARTICLES	12/274765	US	20-Nov-08

(I) Angstrom Acquisition Corp. II

<b>Title</b>	<b>Serial No</b>	<b>Country</b>	<b>Filing Date</b>
TRICALCIUM PHOSPHATES THEIR COMPOSITES IMPLANTS INCORPORATING THEM AND METHODS FOR THEIR PRODUCTION	13/228216	US	8-Sep-11
CEMENT PRODUCTS AND METHODS OF MAKING AND USING THE SAME	12/982461	US	30-Dec-10
TRICALCIUM PHOSPHATES THEIR COMPOSITES IMPLANTS INCORPORATING THEM AND METHODS FOR THEIR PRODUCTION	10/635402	US	6-Aug-03

**Exhibit A to Patent Security Agreement**

CEMENT PRODUCTS AND METHODS OF MAKING AND USING THE SAME	11/500798	US	8-Aug-06
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**Exhibit B to Patent Security Agreement**

**PATENT ASSIGNMENT**

WHEREAS, BIOLOGICAL RECOVERY GROUP, INC. ("Grantor"), is the registered owner, holder or user of: (i) the United States Letter Patents and the inventions which are registered in the United States Patent and Trademark Office and set forth on Exhibit A (collectively, the "Patents"); (ii) the application for Letters Patents and the inventions described and claimed therein set forth on Exhibit A and any United States Letters Patents which may be issued upon any of said applications (collectively, the "Applications"); (iii) any reissues, extension, division or continuation of the Patents or Applications (such reissues, extension, divisions and continuations referred to collectively as the "Reissued Patents"); and (iv) all future royalties or other fees paid or payments made to Borrower in respect of the Patents (collectively, the "Royalties"; the Patents, Applications and the Reissued Patents and the Royalties are referred to collectively as the "Patent Rights").

WHEREAS, \_\_\_\_\_ ("Grantee"), having a place of business at \_\_\_\_\_ is desirous of acquiring the Patent Rights.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound hereby, Grantor, its successors and assigns, does hereby transfer, assign and set over unto Grantee, its successors, transferees and assigns, all of its present and future right, title and interest in and to the Patent Rights and all proceeds thereof and all Grantor's right, title, interest, claims and demands that Grantor has or may have in profits and damages for past and future infringements of the Patent Rights.

IN WITNESS WHEREOF, the undersigned has caused this Patent Assignment to be executed as of the \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

BIOLOGICAL RECOVERY GROUP, INC.

Witness: \_\_\_\_\_

By: \_\_\_\_\_

**Exhibit B to Patent Security Agreement**

**PATENT ASSIGNMENT**

WHEREAS, RTI SERVICES, INC. ("Grantor"), is the registered owner, holder or user of: (i) the United States Letter Patents and the inventions which are registered in the United States Patent and Trademark Office and set forth on Exhibit A (collectively, the "Patents"); (ii) the application for Letters Patents and the inventions described and claimed therein set forth on Exhibit A and any United States Letters Patents which may be issued upon any of said applications (collectively, the "Applications"); (iii) any reissues, extension, division or continuation of the Patents or Applications (such reissues, extension, divisions and continuations referred to collectively as the "Reissued Patents"); and (iv) all future royalties or other fees paid or payments made to Borrower in respect of the Patents (collectively, the "Royalties"; the Patents, Applications and the Reissued Patents and the Royalties are referred to collectively as the "Patent Rights").

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IN WITNESS WHEREOF, the undersigned has caused this Patent Assignment to be executed as of the \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

RTI SERVICES, INC.

Witness: \_\_\_\_\_

By: \_\_\_\_\_  
As Attorney-in-fact



**Exhibit B to Patent Security Agreement**

**PATENT ASSIGNMENT**

WHEREAS, REGENERATION TECHNOLOGIES, INC. - CARDIOVASCULAR ("Grantor"), is the registered owner, holder or user of: (i) the United States Letter Patents and the inventions which are registered in the United States Patent and Trademark Office and set forth on Exhibit A (collectively, the "Patents"); (ii) the application for Letters Patents and the inventions described and claimed therein set forth on Exhibit A and any United States Letters Patents which may be issued upon any of said applications (collectively, the "Applications"); (iii) any reissues, extension, division or continuation of the Patents or Applications (such reissues, extension, divisions and continuations referred to collectively as the "Reissued Patents"); and (iv) all future royalties or other fees paid or payments made to Borrower in respect of the Patents (collectively, the "Royalties"; the Patents, Applications and the Reissued Patents and the Royalties are referred to collectively as the "Patent Rights").

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IN WITNESS WHEREOF, the undersigned has caused this Patent Assignment to be executed as of the \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

REGENERATION TECHNOLOGIES,  
INC. - CARDIOVASCULAR

Witness: \_\_\_\_\_

By: \_\_\_\_\_  
As Attorney-in-fact

**Exhibit B to Patent Security Agreement**

**PATENT ASSIGNMENT**

WHEREAS, TUTOGEN MEDICAL, INC. ("Grantor"), is the registered owner, holder or user of: (i) the United States Letter Patents and the inventions which are registered in the United States Patent and Trademark Office and set forth on Exhibit A (collectively, the "Patents"); (ii) the application for Letters Patents and the inventions described and claimed therein set forth on Exhibit A and any United States Letters Patents which may be issued upon any of said applications (collectively, the "Applications"); (iii) any reissues, extension, division or continuation of the Patents or Applications (such reissues, extension, divisions and continuations referred to collectively as the "Reissued Patents"); and (iv) all future royalties or other fees paid or payments made to Borrower in respect of the Patents (collectively, the "Royalties"; the Patents, Applications and the Reissued Patents and the Royalties are referred to collectively as the "Patent Rights").

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IN WITNESS WHEREOF, the undersigned has caused this Patent Assignment to be executed as of the \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

TUTOGEN MEDICAL, INC.

Witness: \_\_\_\_\_

By: \_\_\_\_\_  
As Attorney-in-fact

**Exhibit B to Patent Security Agreement**

**PATENT ASSIGNMENT**

WHEREAS, TUTOGEN MEDICAL (UNITED STATES), INC. ("Grantor"), is the registered owner, holder or user of: (i) the United States Letter Patents and the inventions which are registered in the United States Patent and Trademark Office and set forth on Exhibit A (collectively, the "Patents"); (ii) the application for Letters Patents and the inventions described and claimed therein set forth on Exhibit A and any United States Letters Patents which may be issued upon any of said applications (collectively, the "Applications"); (iii) any reissues, extension, division or continuation of the Patents or Applications (such reissues, extension, divisions and continuations referred to collectively as the "Reissued Patents"); and (iv) all future royalties or other fees paid or payments made to Borrower in respect of the Patents (collectively, the "Royalties"; the Patents, Applications and the Reissued Patents and the Royalties are referred to collectively as the "Patent Rights").

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IN WITNESS WHEREOF, the undersigned has caused this Patent Assignment to be executed as of the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

TUTOGEN MEDICAL (UNITED STATES), INC.

Witness: \_\_\_\_\_

By: \_\_\_\_\_  
As Attorney-in-fact

**Exhibit B to Patent Security Agreement**

**PATENT ASSIGNMENT**

WHEREAS, PIONEER SURGICAL TECHNOLOGY, INC. ("Grantor"), is the registered owner, holder or user of: (i) the United States Letter Patents and the inventions which are registered in the United States Patent and Trademark Office and set forth on Exhibit A (collectively, the "Patents"); (ii) the application for Letters Patents and the inventions described and claimed therein set forth on Exhibit A and any United States Letters Patents which may be issued upon any of said applications (collectively, the "Applications"); (iii) any reissues, extension, division or continuation of the Patents or Applications (such reissues, extension, divisions and continuations referred to collectively as the "Reissued Patents"); and (iv) all future royalties or other fees paid or payments made to Borrower in respect of the Patents (collectively, the "Royalties"; the Patents, Applications and the Reissued Patents and the Royalties are referred to collectively as the "Patent Rights").

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IN WITNESS WHEREOF, the undersigned has caused this Patent Assignment to be executed as of the \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

PIONEER SURGICAL TECHNOLOGY,  
INC.

Witness: \_\_\_\_\_

By: \_\_\_\_\_  
As Attorney-in-fact

**Exhibit B to Patent Security Agreement**

**PATENT ASSIGNMENT**

WHEREAS, PIONEER SURGICAL ORTHOBIOLOGICS, INC. ("Grantor"), is the registered owner, holder or user of: (i) the United States Letter Patents and the inventions which are registered in the United States Patent and Trademark Office and set forth on Exhibit A (collectively, the "Patents"); (ii) the application for Letters Patents and the inventions described and claimed therein set forth on Exhibit A and any United States Letters Patents which may be issued upon any of said applications (collectively, the "Applications"); (iii) any reissues, extension, division or continuation of the Patents or Applications (such reissues, extension, divisions and continuations referred to collectively as the "Reissued Patents"); and (iv) all future royalties or other fees paid or payments made to Borrower in respect of the Patents (collectively, the "Royalties"; the Patents, Applications and the Reissued Patents and the Royalties are referred to collectively as the "Patent Rights").

WHEREAS, \_\_\_\_\_ ("Grantee"), having a place of business at \_\_\_\_\_ is desirous of acquiring the Patent Rights.

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IN WITNESS WHEREOF, the undersigned has caused this Patent Assignment to be executed as of the \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

PIONEER SURGICAL  
ORTHOBIOLOGICS, INC.

Witness: \_\_\_\_\_

By: \_\_\_\_\_  
As Attorney-in-fact

**Exhibit B to Patent Security Agreement**

**PATENT ASSIGNMENT**

WHEREAS, ANGSTROM ACQUISITION CORP. II ("Grantor"), is the registered owner, holder or user of: (i) the United States Letter Patents and the inventions which are registered in the United States Patent and Trademark Office and set forth on Exhibit A (collectively, the "Patents"); (ii) the application for Letters Patents and the inventions described and claimed therein set forth on Exhibit A and any United States Letters Patents which may be issued upon any of said applications (collectively, the "Applications"); (iii) any reissues, extension, division or continuation of the Patents or Applications (such reissues, extension, divisions and continuations referred to collectively as the "Reissued Patents"); and (iv) all future royalties or other fees paid or payments made to Borrower in respect of the Patents (collectively, the "Royalties"; the Patents, Applications and the Reissued Patents and the Royalties are referred to collectively as the "Patent Rights").

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IN WITNESS WHEREOF, the undersigned has caused this Patent Assignment to be executed as of the \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

ANGSTROM ACQUISITION CORP. II

Witness: \_\_\_\_\_

By: \_\_\_\_\_  
As Attorney-in-fact

## CORPORATE ACKNOWLEDGMENT

UNITED STATES OF AMERICA :  
STATE OF FLORIDA : SS  
COUNTY OF ALACHUA :

On this the \_\_\_\_ day of \_\_\_\_\_, 20\_\_ before me a Notary Public for the said County and State, personally appeared \_\_\_\_\_ known to me or satisfactorily proven to me to be attorney-in-fact on behalf of BIOLOGICAL RECOVERY GROUP, INC. ("Grantor"), and he/she acknowledged to me that he/she executed the foregoing Patent Assignment on behalf of Grantor, and as the act and deed of Grantor for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

(Individual Notary)

**My Commission Expires:**

\_\_\_\_\_;

## CORPORATE ACKNOWLEDGMENT

UNITED STATES OF AMERICA :  
STATE OF FLORIDA : SS  
COUNTY OF ALACHUA :

On this the \_\_\_\_ day of \_\_\_\_\_, 20\_\_ before me a Notary Public for the said County and State, personally appeared \_\_\_\_\_ known to me or satisfactorily proven to me to be attorney-in-fact on behalf of RTI SERVICES, INC. ("Grantor"), and he/she acknowledged to me that he/she executed the foregoing Patent Assignment on behalf of Grantor, and as the act and deed of Grantor for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

(Individual Notary)

My Commission Expires:

\_\_\_\_\_ , \_\_\_\_\_



## CORPORATE ACKNOWLEDGMENT

UNITED STATES OF AMERICA  
STATE OF FLORIDA  
COUNTY OF ALACHUA

$$\begin{array}{c} : \\ : \\ : \quad SS \\ : \\ : \end{array}$$

On this the \_\_\_\_ day of \_\_\_\_\_, 20\_\_ before me a Notary Public for the said County and State, personally appeared \_\_\_\_\_ known to me or satisfactorily proven to me to be attorney-in-fact on behalf of REGENERATION TECHNOLOGIES, INC. - CARDIOVASCULAR, INC. ("Grantor"), and he/she acknowledged to me that he/she executed the foregoing Patent Assignment on behalf of Grantor, and as the act and deed of Grantor for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

(Individual Notary)

My Commission Expires:

---

## CORPORATE ACKNOWLEDGMENT

UNITED STATES OF AMERICA  
STATE OF FLORIDA  
COUNTY OF ALACHUA

$$\begin{array}{c} : \\ : \\ : \\ : \\ : \end{array} \quad \text{SS}$$

On this the \_\_\_\_ day of \_\_\_\_\_, 20\_\_ before me a Notary Public for the said County and State, personally appeared \_\_\_\_\_ known to me or satisfactorily proven to me to be attorney-in-fact on behalf of TUTOGEN MEDICAL, INC. ("Grantor"), and he/she acknowledged to me that he/she executed the foregoing Patent Assignment on behalf of Grantor, and as the act and deed of Grantor for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

(Individual Notary)

**My Commission Expires:**

---

CORPORATE ACKNOWLEDGMENT

UNITED STATES OF AMERICA	:	
STATE OF FLORIDA	:	SS
COUNTY OF ALACHUA	:	

On this the \_\_\_\_ day of \_\_\_\_\_, 20\_\_ before me a Notary Public for the said County and State, personally appeared \_\_\_\_\_ known to me or satisfactorily proven to me to be attorney-in-fact on behalf of TUTOGEN MEDICAL (UNITED STATES), INC. ("Grantor"), and he/she acknowledged to me that he/she executed the foregoing Patent Assignment on behalf of Grantor, and as the act and deed of Grantor for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

\_\_\_\_\_  
(Individual Notary)

My Commission Expires:

\_\_\_\_\_, \_\_\_\_\_

## CORPORATE ACKNOWLEDGMENT

UNITED STATES OF AMERICA :  
STATE OF FLORIDA : SS  
COUNTY OF ALACHUA :

On this the \_\_\_\_ day of \_\_\_\_\_, 20\_\_ before me a Notary Public for the said County and State, personally appeared \_\_\_\_\_ known to me or satisfactorily proven to me to be attorney-in-fact on behalf of PIONEER SURGICAL TECHNOLOGY, INC. ("Grantor"), and he/she acknowledged to me that he/she executed the foregoing Patent Assignment on behalf of Grantor, and as the act and deed of Grantor for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

(Individual Notary)

My Commission Expires:

---

## CORPORATE ACKNOWLEDGMENT

UNITED STATES OF AMERICA :  
STATE OF FLORIDA : SS  
COUNTY OF ALACHUA :

On this the \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ before me a Notary Public for the said County and State, personally appeared \_\_\_\_\_ known to me or satisfactorily proven to me to be attorney-in-fact on behalf of PIONEER SURGICAL ORTHOBIOLOGICS, INC. ("Grantor"), and he/she acknowledged to me that he/she executed the foregoing Patent Assignment on behalf of Grantor, and as the act and deed of Grantor for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

(Individual Notary)

My Commission Expires:

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CORPORATE ACKNOWLEDGMENT

UNITED STATES OF AMERICA	:	
STATE OF FLORIDA	:	SS
COUNTY OF ALACHUA	:	

On this the \_\_\_\_ day of \_\_\_\_\_, 20\_\_ before me a Notary Public for the said County and State, personally appeared \_\_\_\_\_ known to me or satisfactorily proven to me to be attorney-in-fact on behalf of ANGSTROM ACQUISITION CORP. II ("Grantor"), and he/she acknowledged to me that he/she executed the foregoing Patent Assignment on behalf of Grantor, and as the act and deed of Grantor for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

\_\_\_\_\_  
(Individual Notary)

My Commission Expires:

\_\_\_\_\_, \_\_\_\_\_

**EXHIBIT A TO PATENT ASSIGNMENT**

(A) Biologic Recovery Group, Inc.

None.

(B) RTI Services, Inc.

None.

(C) Regeneration Technologies, Inc. -- Cardiovascular

None.

(D) Tutogen Medical, Inc.

Title	Serial No	Country	Filing Date
Fixation element	09/195324	US	11/18/1998

(E) Tutogen Medical (United States), Inc.

None.

(F) RTI Donor Services, Inc.

None.

(G) Pioneer Surgical Technology, Inc.

Title	Serial No	Country	Filing Date
KNOTTED CABLE ATTACHMENT APPARATUS FORMED OF BRAIDED POLYMERIC FIBERS	08/346852	US	30-Nov-94
KNOT	08/405011	US	15-Mar-95

**EXHIBIT A TO PATENT ASSIGNMENT**

SYSTEM AND METHOD FOR SPINAL RECONSTRUCTION	09/968694	US	1-Oct-01
Bone Plate System And Method	61/728930	US	21-Nov-12
Systems and Methods for Inserting an Artificial Disc into an Intervertebral	61/715164	US	17-Oct-12
Bone Plate System & Method	61/710354	US	5-Oct-12
SYSTEMS AND METHODS FOR INSERTING AN EXPANDABLE INTERVERTEBRAL DEVICE	61/798736	US	15-Mar-13
CABLE TENSIONING DEVICE	10/037226	US	21-Dec-01
CABLE TENSIONING DEVICE	09/320879	US	27-May-99
Cable system for bone securance	08/803503	US	20-Feb-97



**EXHIBIT A TO PATENT ASSIGNMENT**

MINIMALLY INVASIVE SURGICAL SYSTEM	11/844265	US	23-Aug-07
CABLE TENSIONING DEVICE	08/923043	US	3-Sep-97
Cable system for bone securance	08/573452	US	15-Dec-95
MULTIPLE LUMEN CRIMP	10/071679	US	8-Feb-02
SYSTEM AND METHOD FOR BONE FIXATION	10/809248	US	25-Mar-04
CANNULATED BONE SCREW	11/691247	US	26-Mar-07
ARTIFICIAL INTERVERTEBRAL DISC DEVICE	11/184625	US	19-Jul-05
Artificial disc device	13/585607	US	14-Aug-12

**EXHIBIT A TO PATENT ASSIGNMENT**

LOW PROFILE SPINAL FIXATION SYSTEM	10/549873	US	30-Oct-06
CROSSLINK FOR SECURING SPINAL RODS	11/408629	US	21-Apr-06
SYSTEM AND METHODS FOR INSERTING A SPINAL DISC DEVICE INTO AN INTEVERTEBRAL SPACE	13/399275	US	17-Feb-12
MINIMALLY INVASIVE SURGICAL SYSTEM	11/844277	US	23-Aug-07
RETRACTION APPARATUS AND METHOD FOR USE	12/161944	US	11-Sep-08
BONE PLATE SYSTEM	13/747131	US	22-Jan-13
PROVISIONALLY LOCKING COUPLING ASSEMBLY AND METHODS FOR BONE FIXATION	13/846562	US	18-Mar-13
INTERVERTEBRAL IMPLANT DEVICES FOR SUPPORTING VERTEBRAE AND DEVICES AND METHODS FOR INSERTION THEREOF	13/923463	US	21-Jun-13

**EXHIBIT A TO PATENT ASSIGNMENT**

Surgical Cable Tensioning Apparatus and Method	13/598283	US	29-Aug-12
CEMENT PRODUCTS AND METHODS OF MAKING AND USING THE SAME	12/200918	US	28-Aug-08
INJECTABLE FILLERS FOR AESTHETIC MEDICAL ENHANCEMENT AND FOR THERAPEUTIC APPLICATIONS	13/588809	US	17-Aug-12
CONTINUOUS MATRIX WITH OSTEOCONDUCTIVE PARTICLES DISPERSED THEREIN, METHOD OF FORMING THEREOF, AND METHOD OF REGENERATING BONE THEREWITH	13/722237	US	20-Dec-12
ROTATABLE CABLE DRUM WITH AUTOMATIC CABLE LOCK	08/705135	US	29-Aug-96
CABLE TENSIONING DEVICE	08/616687	US	15-Mar-96
Cable system for bone securance	08/201614	US	24-Feb-94
CABLE CONNECTOR FOR ORTHOPAEDIC ROD	09/241980	US	2-Feb-99

EXHIBIT A TO PATENT ASSIGNMENT

MULTIPLE LUMEN CRIMP	09/467436	US	20-Dec-99
METHOD AND APPARATUS FOR BONE FRACTURE FIXATION	08/346152	US	29-Nov-94
CABLE CRIMP SYSTEM	08/534783	US	27-Sep-95
CROSSLINK FOR IMPLANTABLE RODS	08/582166	US	2-Jan-96
SURGICAL ROD-TO-BONE ATTACHMENT	08/603847	US	22-Feb-96
SURGICAL CABLE SCREW CONNECTOR	08/648685	US	16-May-96
Intramedullary bone fixation rod	09/243988	US	3-Feb-99
SPINAL FIXATION SYSTEM * * co-owned with Michigan Technological University	09/561248	US	27-Apr-00

**EXHIBIT A TO PATENT ASSIGNMENT**

SPINAL FIXATION SYSTEM	10/104487	US	25-Mar-02
EXTERNAL FIXATION APPARATUS AND METHOD	10/074607	US	11-Feb-02
SURGICAL CABLE ASSEMBLY AND METHOD	09/608536	US	30-Jun-00
SYSTEM AND METHOD FOR BONE FIXATION	10/007146	US	3-Dec-01
CANNULATED BONE SCREW	10/365698	US	12-Feb-03
ARTIFICIAL INTERVERTEBRAL DISC DEVICE	10/282620	US	29-Oct-02
ARTIFICIAL DISC DEVICE	10/692468	US	22-Oct-03
Artificial disc device	10/971734	US	22-Oct-04

**EXHIBIT A TO PATENT ASSIGNMENT**

JOINT ARTHROPLASTY DEVICES HAVING ARTICULATING MEMBERS	11/856565	US	17-Sep-07
BONE PLATE SYSTEM	10/553940	US	2-Feb-07
LOW PROFILE SPINAL FIXATION SYSTEM	10/358530	US	5-Feb-03
CROSSLINK FOR SECURING SPINAL RODS	10/692460	US	22-Oct-03
SPINAL STABILIZATION DEVICE AND METHODS	11/259403	US	26-Oct-05
BONE PLATE SYSTEM AND METHODS	10/973891	US	26-Oct-04
BONE PLATE SYSTEM AND METHODS	11/259714	US	26-Oct-05
APPARATUS AND METHOD FOR REPAIRING THE FEMUR	09/775891	US	2-Feb-01

**EXHIBIT A TO PATENT ASSIGNMENT**

INSERTION INSTRUMENT FOR ARTIFICIAL DISCS	11/836234	US	9-Aug-07
SYSTEM AND METHODS FOR INSERTING A SPINAL DISC DEVICE INTO AN INTEVERTEBRAL SPACE	11/836621	US	9-Aug-07
INTERVERTEBRAL DISC SPACE SIZING TOOLS AND METHODS	12/368964	US	10-Feb-09
APPARATUS AND METHOD FOR IMPLANTATION OF SURGICAL DEVICES	12/088104	US	21-Oct-08
SPINAL FIXATION SYSTEMS	12/067616	US	31-Jul-08
MINIMALLY INVASIVE SURGICAL SYSTEM	11/844259	US	23-Aug-07
RETRACTION APPARATUS AND METHOD FOR USE	11/539224	US	6-Oct-06
INTERLAMINAR STABILIZING SYSTEM	12/161676	US	5-Jan-11

**EXHIBIT A TO PATENT ASSIGNMENT**

SPINAL STABILIZATION DEVICE AND METHODS	11/750612	US	18-May-07
MINIMALLY INVASIVE SURGICAL SYSTEM	12/438538	US	23-Aug-10
TRANSVERSE CONNECTOR	11/776449	US	11-Jul-07
Methods and Apparatus for Clamping Surgical Wires or Cables	09/442293	US	19-Nov-99
METHOD AND APPARATUS FOR CLAMPING SURGICAL WIRES OR CABLES	09/994088	US	14-Nov-01
SYSTEM AND METHODS FOR INSERTING A SPINAL DISC DEVICE INTO AN INTERVERTEBRAL SPACE	11/860470	US	24-Sep-07
SYSTEMS AND METHODS FOR SIZING, INSERTING AND SECURING ARTIFICIAL DISC IN INTERVERTEBRAL SPACE	11/856667	US	17-Sep-07
LOW TOP BONE FIXATION SYSTEM AND METHOD FOR USING THE SAME	11/726868	US	22-Mar-07



**EXHIBIT A TO PATENT ASSIGNMENT**

SPINAL ROD ANCHOR DEVICE AND METHOD	11/839843	US	16-Aug-07
SPINAL ROD REDUCER AND CAP INSERTION APPARATUS	12/031655	US	14-Feb-08
INTERVERTEBRAL IMPLANT DEVICES AND METHODS FOR INSERTION THEREOF	12/026895	US	6-Feb-08
MOUNTING DEVICES FOR FIXATION DEVICES AND INSERTION INSTRUMENTS USED THEREWITH	11/854393	US	12-Sep-07
FUSION DEVICE, SYSTEM AND METHODS THEREOF	12/445936	US	28-Sep-10
IMPLANT RETENTION DEVICE AND METHOD	11/963727	US	21-Dec-07
IMPLANT RETENTION DEVICE AND METHODS	11/963745	US	21-Dec-07
IMPLANT RETENTION DEVICE AND METHOD	11/963496	US	21-Dec-07

**EXHIBIT A TO PATENT ASSIGNMENT**

BONE PLATE SYSTEM	12/167666	US	3-Jul-08
BONE PLATE SYSTEM	12/199321	US	27-Aug-08
INTERLAMINAR STABILIZATION SYSTEM	12/234557	US	19-Sep-08
PROVISIONALLY LOCKING COUPLING ASSEMBLY AND METHODS FOR BONE FIXATION	12/257285	US	23-Oct-08
BONE PLATE SYSTEM	12/429934	US	24-Apr-09
BONE PLATE SYSTEM	13/936747	US	8-Jul-13
ROD LOCKING INSTRUMENT	12/362429	US	29-Jan-09
ELECTRICAL CONNECTOR FOR SURGICAL SYSTEMS	12/396249	US	2-Mar-09

EXHIBIT A TO PATENT ASSIGNMENT

INTERVERTEBRAL IMPLANT DEVICES FOR SUPPORTING VERTEBRAE AND DEVICES AND METHODS FOR INSERTION THEREOF	12/417356	US	2-Apr-09
MOTION PRESERVING ARTIFICIAL INTERVERTEBRAL DISC DEVICE	12/436032	US	5-May-09
INSERTION Instrument FOR SPINAL FIXATION SYSTEM	12/423786	US	14-Apr-09
SYSTEM AND METHOD FOR SECURING AN ARTIFICIAL INTERVERTEBRAL DISC	12/541658	US	14-Aug-09
RETRACTION APPARATUS AND METHOD of Use	12/475067	US	29-May-09
Surgical Cable Tensioning Apparatus and Method	12/540303	US	12-Aug-09
Low Profile Dual Locking Fixation System and Offset Anchor Member	12/579345	US	14-Oct-09
INTERVERTEBRAL IMPLANT DEVICES AND METHODS FOR INSERTAINO THEREOF	12/685618	US	11-Jan-10

**EXHIBIT A TO PATENT ASSIGNMENT**

Wide Angulation Coupling Members for Bone Fixation Systems	12/704149	US	11-Feb-10
SYSTEMS AND METHODS FOR SIZING, INSERTING AND SECURING AN IMPLANT IN INTERVERTEBRAL SPACE	12/721485	US	10-Mar-10
INSERTION INSTRUMENT FOR ARTIFICIAL DISCS	12/727211	US	18-Mar-10
METHOD OF PACKAGING A SURGICAL CABLE	12/772877	US	3-May-10
SIZE TRANSITION SPINAL ROD	12/871893	US	30-Aug-10
INTERVERTEBRAL IMPLANT DEVICES AND METHODS FOR INSERTION THEREOF	12/945785	US	12-Nov-10
LOW FRICTION ROD PERSUADER	12/977968	US	23-Dec-10
Occipital Plate for Spinal Fusion	12/983207	US	31-Dec-10

**EXHIBIT A TO PATENT ASSIGNMENT**

Spinal Rod and Screw Securing Apparatus and Method	13/025715	US	11-Feb-11
DEVICE FOR SECURING AN IMPLANT TO TISSUE	13/035732	US	25-Feb-11
Bone Plate System	13/069354	US	22-Mar-11
MINIMALLY INVASIVE SURGICAL SYSTEM	13/083347	US	8-Apr-11
DRIVER FOR A SURGICAL DEVICE	13/272931	US	13-Oct-11
SPINAL FIXATION SYSTEM AND METHOD	13/366117	US	3-Feb-12
Apparatus and Method for Enlarging an Incision	13/415673	US	8-Mar-12
Bone Plate System and Method	13/728878	US	27-Dec-12

**EXHIBIT A TO PATENT ASSIGNMENT**

BONE PLATE SYSTEM AND METHOD	13/837615	US	15-Mar-13
Bone Anchor Assembly, Bone Plate System, And Method	13/725420	US	21-Dec-12
Apparatus and Methods for Immobilization and Fusion of the Synovial Joint	13/594555	US	24-Aug-12
CROSS LINK FOR SPINAL ROD SYSTEM	13/608366	US	10-Sep-12
INTERVERTEBRAL IMPLANT	13/648086	US	9-Oct-12
Adjustable Occipital Plate Device	13/710058	US	10-Dec-12
TENSIONING INSTRUMENT AND METHOD	13/730597	US	28-Dec-12
Systems and Methods for Inserting a Spinal Device	13/725322	US	21-Dec-12

**EXHIBIT A TO PATENT ASSIGNMENT**

MIXING SYRINGE	29/378941	US	11-Nov-10
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(H) Pioneer Surgical Orthobiologics, Inc.

Title	Serial No	Country	Filing Date
Methods and Compositions for Regenerating Connective Tissue	13/600642	US	31-Aug-12
Methods and Compositions for Regenerating Connective Tissue	13/600661	US	31-Aug-12
Cross-Linked Bioactive Hydrogel Matrices	13/793644	US	11-Mar-13
Methods and Compositions for Regenerating Connective Tissue	12/356213	US	20-Jan-09
Cross-Linked Bioactive Hydrogel Matrices	13/252500	US	4-Oct-11
Methods and Compositions for Regenerating Connective Tissue	12/356195	US	20-Jan-09

**EXHIBIT A TO PATENT ASSIGNMENT**

SPECIFIC HIGHLY SENSITIVE NESTED	09/543106	US	5-Apr-00
Cross-Linked Bioactive Hydrogel Matrices	12/782322	US	18-May-10
Immobilized Bioactive Hydrogel Matrices As Surface Coatings	11/937851	US	9-Nov-07
Methods and Compositions for Regenerating Connective Tissue	12/039214	US	28-Feb-08
BIOARTIFICIAL ENDOCRINE DEVICE	08/346340	US	28-Nov-94
ELECTROCHEMICAL BIOSENSORS	08/602909	US	17-May-96
SPECIFIC HIGHLY SENSITIVE NESTED	09/069811	US	29-Apr-98
Method of Treating Chronic Ulcers	09/870414	US	30-May-01



**EXHIBIT A TO PATENT ASSIGNMENT**

METHOD OF STIMULATING HAIR GROWTH	09/870424	US	30-May-01
Cross-Linked Bioactive Hydrogel Matrices	10/372643	US	21-Feb-03
Immobilized Bioactive Hydrogel Matrices As Surface Coatings	10/372757	US	21-Feb-03
CRYOPRESERVATION OF CELLS USING CROSS-LINKED BIOACTIVE HYDROGEL MATRIX PARTICLES	12/274765	US	20-Nov-08

(I) Angstrom Acquisition Corp. II

Title	Serial No	Country	Filing Date
TRICALCIUM PHOSPHATES THEIR COMPOSITES IMPLANTS INCORPORATING THEM AND METHODS FOR THEIR PRODUCTION	13/228216	US	8-Sep-11
CEMENT PRODUCTS AND METHODS OF MAKING AND USING THE SAME	12/982461	US	30-Dec-10
TRICALCIUM PHOSPHATES THEIR COMPOSITES IMPLANTS INCORPORATING THEM AND METHODS FOR THEIR PRODUCTION	10/635402	US	6-Aug-03

**EXHIBIT A TO PATENT ASSIGNMENT**

CEMENT PRODUCTS AND METHODS OF MAKING AND USING THE SAME	11/500798	US	8-Aug-06
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## POWER OF ATTORNEY

BIOLOGICAL RECOVERY GROUP, INC., a Delaware corporation, ("Grantor"), hereby authorizes TD Bank, N.A., its successors and assigns, and any officer or agent thereof (collectively "Grantee") as Grantor's true and lawful attorney-in-fact, with the power to endorse Grantor's name on all applications, assignments, documents, papers and instruments necessary for Grantee to enforce and effectuate its rights under a certain Patent Security Agreement between Grantor and Grantee dated the date hereof (as it may hereafter be supplemented, restated, superseded, amended or replaced, the "Patent Agreement"), including, without limitation, the power to use the Patents (as defined in the Patent Agreement), to grant or issue any exclusive or nonexclusive license under the Patents to anyone else, or to assign, pledge, convey or otherwise transfer title in or dispose of the Patents.

This Power of Attorney is given and any action taken pursuant hereto is intended to be so given or taken pursuant to a certain Second Amended and Restated Loan Agreement bearing even date herewith, as it may be supplemented, restated, superseded, amended or replaced from time to time.

Grantor hereby unconditionally ratifies all that such attorney shall lawfully do or cause to be done by virtue hereof.

This Power of Attorney shall be coupled with an interest and irrevocable for the life of the Patent Agreement.

IN WITNESS WHEREOF, the Grantor has executed this Power of Attorney, under seal, this 16<sup>th</sup> day of July, 2013.

**BIOLOGICAL RECOVERY GROUP, INC.**

Witness: [Signature]  
Witness: [Signature]

By: [Signature]  
Attest: \_\_\_\_\_  
(Corporate Seal)

## POWER OF ATTORNEY

RTI SERVICES, INC., a Delaware corporation, ("Grantor"), hereby authorizes TD Bank, N.A., its successors and assigns, and any officer or agent thereof (collectively "Grantee") as Grantor's true and lawful attorney-in-fact, with the power to endorse Grantor's name on all applications, assignments, documents, papers and instruments necessary for Grantee to enforce and effectuate its rights under a certain Patent Security Agreement between Grantor and Grantee dated the date hereof (as it may hereafter be supplemented, restated, superseded, amended or replaced, the "Patent Agreement"), including, without limitation, the power to use the Patents (as defined in the Patent Agreement), to grant or issue any exclusive or nonexclusive license under the Patents to anyone else, or to assign, pledge, convey or otherwise transfer title in or dispose of the Patents.

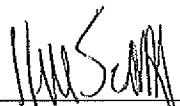
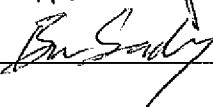
This Power of Attorney is given and any action taken pursuant hereto is intended to be so given or taken pursuant to a certain Second Amended and Restated Loan Agreement bearing even date herewith, as it may be supplemented, restated, superseded, amended or replaced from time to time.


Grantor hereby unconditionally ratifies all that such attorney shall lawfully do or cause to be done by virtue hereof.

This Power of Attorney shall be coupled with an interest and irrevocable for the life of the Patent Agreement.

IN WITNESS WHEREOF, the Grantor has executed this Power of Attorney, under seal, this 16<sup>th</sup> day of July, 2013.

RTI SERVICES, INC.

Witness:   
Witness: 

By:   
Attest: \_\_\_\_\_  
(Corporate Seal)

## POWER OF ATTORNEY

REGENERATION TECHNOLOGIES, INC. - CARDIOVASCULAR, a Alabama corporation, ("Grantor"), hereby authorizes TD Bank, N.A., its successors and assigns, and any officer or agent thereof (collectively "Grantee") as Grantor's true and lawful attorney-in-fact, with the power to endorse Grantor's name on all applications, assignments, documents, papers and instruments necessary for Grantee to enforce and effectuate its rights under a certain Patent Security Agreement between Grantor and Grantee dated the date hereof (as it may hereafter be supplemented, restated, superseded, amended or replaced, the "Patent Agreement"), including, without limitation, the power to use the Patents (as defined in the Patent Agreement), to grant or issue any exclusive or nonexclusive license under the Patents to anyone else, or to assign, pledge, convey or otherwise transfer title in or dispose of the Patents.

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Grantor hereby unconditionally ratifies all that such attorney shall lawfully do or cause to be done by virtue hereof.

This Power of Attorney shall be coupled with an interest and irrevocable for the life of the Patent Agreement.

IN WITNESS WHEREOF, the Grantor has executed this Power of Attorney, under seal, this 16<sup>th</sup> day of July, 2013.

REGENERATION TECHNOLOGIES, INC. -  
CARDIOVASCULAR

Witness:

[Signature]

By:

[Signature]

Witness:

[Signature]

Attest:

\_\_\_\_\_

(Corporate Seal)

## POWER OF ATTORNEY

TUTOGEN MEDICAL, INC., a Florida corporation, ("Grantor"), hereby authorizes TD Bank, N.A., its successors and assigns, and any officer or agent thereof (collectively "Grantee") as Grantor's true and lawful attorney-in-fact, with the power to endorse Grantor's name on all applications, assignments, documents, papers and instruments necessary for Grantee to enforce and effectuate its rights under a certain Patent Security Agreement between Grantor and Grantee dated the date hereof (as it may hereafter be supplemented, restated, superseded, amended or replaced, the "Patent Agreement"), including, without limitation, the power to use the Patents (as defined in the Patent Agreement), to grant or issue any exclusive or nonexclusive license under the Patents to anyone else, or to assign, pledge, convey or otherwise transfer title in or dispose of the Patents.

This Power of Attorney is given and any action taken pursuant hereto is intended to be so given or taken pursuant to a certain Second Amended and Restated Loan Agreement bearing even date herewith, as it may be supplemented, restated, superseded, amended or replaced from time to time.

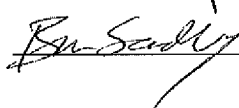
Grantor hereby unconditionally ratifies all that such attorney shall lawfully do or cause to be done by virtue hereof.

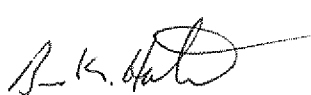
This Power of Attorney shall be coupled with an interest and irrevocable for the life of the Patent Agreement.

IN WITNESS WHEREOF, the Grantor has executed this Power of Attorney, under seal, this 16<sup>th</sup> day of July, 2013.

**TUTOGEN MEDICAL, INC.**

Witness: 

Witness: 

By: 

Attest: \_\_\_\_\_  
(Corporate Seal)

## POWER OF ATTORNEY

TUTOGEN MEDICAL (UNITED STATES), INC., a Florida corporation, ("Grantor"), hereby authorizes TD Bank, N.A., its successors and assigns, and any officer or agent thereof (collectively "Grantee") as Grantor's true and lawful attorney-in-fact, with the power to endorse Grantor's name on all applications, assignments, documents, papers and instruments necessary for Grantee to enforce and effectuate its rights under a certain Patent Security Agreement between Grantor and Grantee dated the date hereof (as it may hereafter be supplemented, restated, superseded, amended or replaced, the "Patent Agreement"), including, without limitation, the power to use the Patents (as defined in the Patent Agreement), to grant or issue any exclusive or nonexclusive license under the Patents to anyone else, or to assign, pledge, convey or otherwise transfer title in or dispose of the Patents.

This Power of Attorney is given and any action taken pursuant hereto is intended to be so given or taken pursuant to a certain Second Amended and Restated Loan Agreement bearing even date herewith, as it may be supplemented, restated, superseded, amended or replaced from time to time.

Grantor hereby unconditionally ratifies all that such attorney shall lawfully do or cause to be done by virtue hereof.

This Power of Attorney shall be coupled with an interest and irrevocable for the life of the Patent Agreement.

IN WITNESS WHEREOF, the Grantor has executed this Power of Attorney, under seal, this 16<sup>th</sup> day of July, 2013.

**TUTOGEN MEDICAL (UNITED STATES), INC.**

Witness: [Signature]

Witness: [Signature]

By: [Signature]

Attest: \_\_\_\_\_  
(Corporate Seal)

## POWER OF ATTORNEY

PIONEER SURGICAL TECHNOLOGY, INC., a Michigan corporation, ("Grantor"), hereby authorizes TD Bank, N.A., its successors and assigns, and any officer or agent thereof (collectively "Grantee") as Grantor's true and lawful attorney-in-fact, with the power to endorse Grantor's name on all applications, assignments, documents, papers and instruments necessary for Grantee to enforce and effectuate its rights under a certain Patent Security Agreement between Grantor and Grantee dated the date hereof (as it may hereafter be supplemented, restated, superseded, amended or replaced, the "Patent Agreement"), including, without limitation, the power to use the Patents (as defined in the Patent Agreement), to grant or issue any exclusive or nonexclusive license under the Patents to anyone else, or to assign, pledge, convey or otherwise transfer title in or dispose of the Patents.

This Power of Attorney is given and any action taken pursuant hereto is intended to be so given or taken pursuant to a certain Second Amended and Restated Loan Agreement bearing even date herewith, as it may be supplemented, restated, superseded, amended or replaced from time to time.

Grantor hereby unconditionally ratifies all that such attorney shall lawfully do or cause to be done by virtue hereof.

This Power of Attorney shall be coupled with an interest and irrevocable for the life of the Patent Agreement.

IN WITNESS WHEREOF, the Grantor has executed this Power of Attorney, under seal, this 16<sup>th</sup> day of July, 2013.

PIONEER SURGICAL TECHNOLOGY, INC.

Witness: [Signature]  
Witness: [Signature]

By: [Signature]  
Attest: \_\_\_\_\_  
(Corporate Seal)



## POWER OF ATTORNEY

PIONEER SURGICAL ORTHOBIOLOGICS, INC., a Delaware corporation, ("Grantor"), hereby authorizes TD Bank, N.A., its successors and assigns, and any officer or agent thereof (collectively "Grantee") as Grantor's true and lawful attorney-in-fact, with the power to endorse Grantor's name on all applications, assignments, documents, papers and instruments necessary for Grantee to enforce and effectuate its rights under a certain Patent Security Agreement between Grantor and Grantee dated the date hereof (as it may hereafter be supplemented, restated, superseded, amended or replaced, the "Patent Agreement"), including, without limitation, the power to use the Patents (as defined in the Patent Agreement), to grant or issue any exclusive or nonexclusive license under the Patents to anyone else, or to assign, pledge, convey or otherwise transfer title in or dispose of the Patents.

This Power of Attorney is given and any action taken pursuant hereto is intended to be so given or taken pursuant to a certain Second Amended and Restated Loan Agreement bearing even date herewith, as it may be supplemented, restated, superseded, amended or replaced from time to time.

Grantor hereby unconditionally ratifies all that such attorney shall lawfully do or cause to be done by virtue hereof.

This Power of Attorney shall be coupled with an interest and irrevocable for the life of the Patent Agreement.

IN WITNESS WHEREOF, the Grantor has executed this Power of Attorney, under seal, this 16<sup>th</sup> day of July, 2013.

PIONEER SURGICAL ORTHOBIOLOGICS, INC.

Witness: [Signature]  
Witness: [Signature]

By: [Signature]  
Attest: \_\_\_\_\_  
(Corporate Seal)

## POWER OF ATTORNEY

ANGSTROM ACQUISITION CORP. II, a Delaware corporation, ("Grantor"), hereby authorizes TD Bank, N.A., its successors and assigns, and any officer or agent thereof (collectively "Grantee") as Grantor's true and lawful attorney-in-fact, with the power to endorse Grantor's name on all applications, assignments, documents, papers and instruments necessary for Grantee to enforce and effectuate its rights under a certain Patent Security Agreement between Grantor and Grantee dated the date hereof (as it may hereafter be supplemented, restated, superseded, amended or replaced, the "Patent Agreement"), including, without limitation, the power to use the Patents (as defined in the Patent Agreement), to grant or issue any exclusive or nonexclusive license under the Patents to anyone else, or to assign, pledge, convey or otherwise transfer title in or dispose of the Patents.

This Power of Attorney is given and any action taken pursuant hereto is intended to be so given or taken pursuant to a certain Second Amended and Restated Loan Agreement bearing even date herewith, as it may be supplemented, restated, superseded, amended or replaced from time to time.

Grantor hereby unconditionally ratifies all that such attorney shall lawfully do or cause to be done by virtue hereof.

This Power of Attorney shall be coupled with an interest and irrevocable for the life of the Patent Agreement.

IN WITNESS WHEREOF, the Grantor has executed this Power of Attorney, under seal, this 16<sup>th</sup> day of July, 2013.

ANGSTROM ACQUISITION CORP. II

Witness: [Signature]

By: [Signature]

Witness: [Signature]

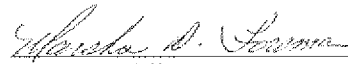
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(Corporate Seal)

CORPORATE ACKNOWLEDGMENT

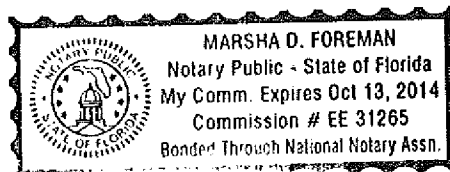
UNITED STATES OF AMERICA  
STATE OF FLORIDA  
COUNTY OF ALACHUA

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On this 16<sup>th</sup> day of July, <sup>2013</sup>200, before me personally appeared BRIAN K. HUTCHISON, to me known and being duly sworn, deposes and says that he is PRESIDENT & C.E.O. of **BIOLOGICAL RECOVERY GROUP, INC.**, the Grantor corporation described in the foregoing Power of Attorney; that he/she knows the seal of the corporation; that the seal so affixed to the Power of Attorney is such corporate seal; that he/she signed the Power of Attorney and affixed the seal of the corporation thereto as such officer pursuant to the authority vested in him/her by law; that the within Power of Attorney is the voluntary act of such corporation; and he/she desires the same to be recorded as such.

  
Notary Public

My Commission Expires:



CORPORATE ACKNOWLEDGMENT

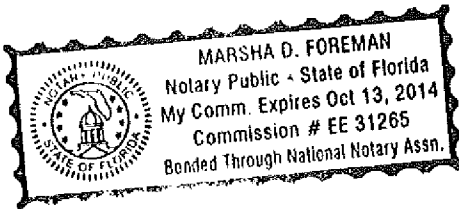
UNITED STATES OF AMERICA  
STATE OF FLORIDA  
COUNTY OF ALACHUA

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On this 16<sup>th</sup> day of July, <sup>2013</sup>~~200~~, before me personally appeared BRIAN K. HUTCHISON, to me known and being duly sworn, deposes and says that he is PRESIDENT & C.E.O. of RTI SERVICES, INC., the Grantor corporation described in the foregoing Power of Attorney; that he/she knows the seal of the corporation; that the seal so affixed to the Power of Attorney is such corporate seal; that he/she signed the Power of Attorney and affixed the seal of the corporation thereto as such officer pursuant to the authority vested in him/her by law; that the within Power of Attorney is the voluntary act of such corporation; and he/she desires the same to be recorded as such.

Marsha D. Foreman  
Notary Public

My Commission Expires:



CORPORATE ACKNOWLEDGMENT

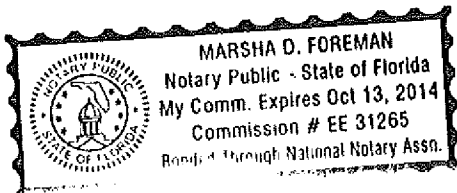
UNITED STATES OF AMERICA  
STATE OF FLORIDA  
COUNTY OF ALACHUA

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On this 16<sup>th</sup> day of July, <sup>2013</sup> 2003, before me personally appeared BRIAN K. HUTCHISON, to me known and being duly sworn, deposes and says that he is PRESIDENT & C.E.O. of **REGENERATION TECHNOLOGIES, INC. - CARDIOVASCULAR**, the Grantor corporation described in the foregoing Power of Attorney; that he/she knows the seal of the corporation; that the seal so affixed to the Power of Attorney is such corporate seal; that he/she signed the Power of Attorney and affixed the seal of the corporation thereto as such officer pursuant to the authority vested in him/her by law; that the within Power of Attorney is the voluntary act of such corporation; and he/she desires the same to be recorded as such.

Marsha D. Foreman  
Notary Public

My Commission Expires:

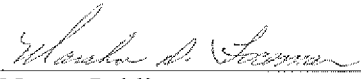


CORPORATE ACKNOWLEDGMENT

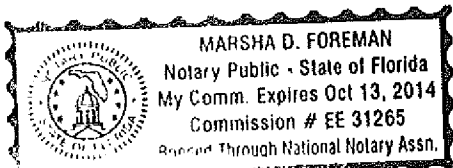
UNITED STATES OF AMERICA  
STATE OF FLORIDA  
COUNTY OF ALACHUA

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On this 16<sup>th</sup> day of July, <sup>2013</sup>~~200~~, before me personally appeared BRIAN K. HUTCHISON, to me known and being duly sworn, deposes and says that he is PRESIDENT & C.E.O. of TUTOGEN MEDICAL, INC., the Grantor corporation described in the foregoing Power of Attorney; that he/she knows the seal of the corporation; that the seal so affixed to the Power of Attorney is such corporate seal; that he/she signed the Power of Attorney and affixed the seal of the corporation thereto as such officer pursuant to the authority vested in him/her by law; that the within Power of Attorney is the voluntary act of such corporation; and he/she desires the same to be recorded as such.

  
\_\_\_\_\_  
Notary Public

My Commission Expires:

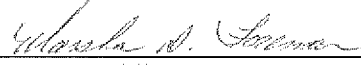


CORPORATE ACKNOWLEDGMENT

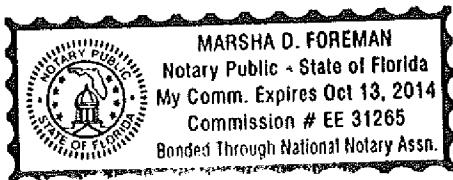
UNITED STATES OF AMERICA  
STATE OF FLORIDA  
COUNTY OF ALACHUA

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On this 16<sup>th</sup> day of July, <sup>2013</sup>~~200~~, before me personally appeared BRIAN K. HUTCHISON, to me known and being duly sworn, deposes and says that he is PRESIDENT & C.E.O. of **TUTOGEN MEDICAL (UNITED STATES), INC.**, the Grantor corporation described in the foregoing Power of Attorney; that he/she knows the seal of the corporation; that the seal so affixed to the Power of Attorney is such corporate seal; that he/she signed the Power of Attorney and affixed the seal of the corporation thereto as such officer pursuant to the authority vested in him/her by law; that the within Power of Attorney is the voluntary act of such corporation; and he/she desires the same to be recorded as such.

  
\_\_\_\_\_  
Notary Public

My Commission Expires:

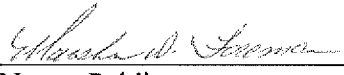


CORPORATE ACKNOWLEDGMENT

UNITED STATES OF AMERICA  
STATE OF FLORIDA  
COUNTY OF ALACHUA

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On this 16<sup>th</sup> day of July, 2003, before me personally appeared BRIAN K. HUTCHISON, to me known and being duly sworn, deposes and says that he is PRESIDENT & C.E.O. of **PIONEER SURGICAL TECHNOLOGY, INC.**, the Grantor corporation described in the foregoing Power of Attorney; that he/she knows the seal of the corporation; that the seal so affixed to the Power of Attorney is such corporate seal; that he/she signed the Power of Attorney and affixed the seal of the corporation thereto as such officer pursuant to the authority vested in him/her by law; that the within Power of Attorney is the voluntary act of such corporation; and he/she desires the same to be recorded as such.

  
\_\_\_\_\_  
Notary Public

My Commission Expires:





CORPORATE ACKNOWLEDGMENT

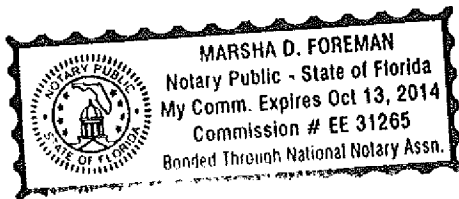
UNITED STATES OF AMERICA  
STATE OF FLORIDA  
COUNTY OF ALACHUA

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On this 16<sup>th</sup> day of July, 2013, before me personally appeared BRIAN K. HUTCHISON, to me known and being duly sworn, deposes and says that he is PRESIDENT & C.E.O. of **PIONEER SURGICAL ORTHOBIOLOGICS, INC.**, the Grantor corporation described in the foregoing Power of Attorney; that he/she knows the seal of the corporation; that the seal so affixed to the Power of Attorney is such corporate seal; that he/she signed the Power of Attorney and affixed the seal of the corporation thereto as such officer pursuant to the authority vested in him/her by law; that the within Power of Attorney is the voluntary act of such corporation; and he/she desires the same to be recorded as such.

Marsha D. Foreman  
Notary Public

My Commission Expires:



CORPORATE ACKNOWLEDGMENT

UNITED STATES OF AMERICA  
STATE OF FLORIDA  
COUNTY OF ALACHUA

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On this 16<sup>th</sup> day of July, 2000, before me personally appeared BRIAN K. HUTCHISON, to me known and being duly sworn, deposes and says that he is PRESIDENT & C.E.O. of **ANGSTROM ACQUISITION CORP. II**, the Grantor corporation described in the foregoing Power of Attorney; that he/she knows the seal of the corporation; that the seal so affixed to the Power of Attorney is such corporate seal; that he/she signed the Power of Attorney and affixed the seal of the corporation thereto as such officer pursuant to the authority vested in him/her by law; that the within Power of Attorney is the voluntary act of such corporation; and he/she desires the same to be recorded as such.

Marsha D. Foreman  
Notary Public

My Commission Expires:

