

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5464713

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT	
NATURE OF CONVEYANCE:	Corrective Assignment to correct the APPLICATION NO. TO 16/100,410 previously recorded on Reel 048260 Frame 0654. Assignor(s) hereby confirms the APPLICATION NO. SHOULD BE 16/100,410, NOT 16/110,410.	
CONVEYING PARTY DATA		
	Name	Execution Date
	Mosheh T. Moskowitz	08/03/2016
RECEIVING PARTY DATA		
Name:	NATHAN C. MOSKOWITZ	
Street Address:	212 NORTH ADAMS STREET	
City:	ROCKVILLE	
State/Country:	MARYLAND	
Postal Code:	20850	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	16100410	
CORRESPONDENCE DATA		
Fax Number:	(877)769-7945	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
Phone:	(612) 337-2538	
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ATTORNEY DOCKET NUMBER:	46440-0012005	
NAME OF SUBMITTER:	ABBY REMER	
SIGNATURE:	/Abby Remer/	
DATE SIGNED:	04/09/2019	
Total Attachments: 9		
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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5359869

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Mosheh T. Moskowitz	08/03/2016
RECEIVING PARTY DATA	
Name:	NATHAN C. MOSKOWITZ
Street Address:	212 NORTH ADAMS STREET
City:	ROCKVILLE
State/Country:	MARYLAND
Postal Code:	20850
PROPERTY NUMBERS Total: 8	
Property Type	Number
Application Number:	16110410
Application Number:	16034545
Application Number:	16160937
Application Number:	16160824
Application Number:	16134364
Application Number:	16194976
Application Number:	16018798
Application Number:	16025667
CORRESPONDENCE DATA	
Fax Number:	(877)769-7945
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	(612) 337-2538
Email:	apsi@fr.com
Correspondent Name:	STUART A. NELSON
Address Line 1:	FISH & RICHARDSON P.C.
Address Line 2:	P.O.BOX 1022
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022
ATTORNEY DOCKET NUMBER:	46440-0012005
NAME OF SUBMITTER:	ABBY REMER
SIGNATURE:	/Abby Remer/

PATENT

REEL: 048838 FRAME: 0552

DRESCH IP LAW, PLLC
UNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ASSIGNMENT

Name(s)
of Inventor(s):

WHEREAS, I, Mosheh T. MOSKOWITZ, (hereinafter designated as the Assignor) have invented certain new and useful improvements as identified in the Application Number(s) and/or Patent Number(s) identified below:

	Application Serial No.	Filing Date	Title of the Invention	U.S. Patent No.	Issue Date
1	11/019,351	12/23/2004	ARTIFICIAL EXPANSIBLE TOTAL LUMBAR AND THORACIC DISCS FOR POSTERIOR PLACEMENT WITHOUT SUPPLEMENTAL INSTRUMENTATION AND ITS ADAPTATION FOR ANTERIOR PLACEMENT OF ARTIFICIAL CERVICAL, THORACIC AND LUMBAR DISCS	7,083,650	08/01/2006
2	11/208,644	08/23/2005	BI-DIRECTIONAL FIXATING TRANSVERTEBRAL BODY SCREWS, ZERO-PROFILE HORIZONTAL INTERVERTEBRAL MINIPATES, EXPANSIBLE INTERVERTEBRAL BODY FUSION DEVICES, AND POSTERIOR MOTION-CALIBRATING INTERARTICULATING JOINT STAPLING DEVICE FOR SPINAL FUSION	7,704,279	04/27/2010
3	11/536,815	09/29/2006	BI-DIRECTIONAL FIXATING TRANSVERTEBRAL BODY SCREWS, ZERO-PROFILE HORIZONTAL INTERVERTEBRAL MINIPATES, TOTAL INTERVERTEBRAL BODY FUSION DEVICES, AND POSTERIOR MOTION-CALIBRATING INTERARTICULATING JOINT STAPLING DEVICE FOR SPINAL FUSION	7,846,188	12/07/2010
4	11/737,846	04/20/2007	ELECTRONICALLY CONTROLLED ARTIFICIAL INTERVERTEBRAL DISC WITH MOTOR ASSISTED ACTUATION SYSTEMS	7,854,765	12/21/2010
5	11/487,415	07/17/2006	ARTIFICIAL TOTAL LUMBAR DISC FOR UNILATERAL SAFE AND SIMPLE POSTERIOR PLACEMENT IN THE LUMBAR SPINE, AND REMOVABLE BIFUNCTIONAL SCREW WHICH DRIVES VERTICAL SLIDING EXPANSIBLE PLATE EXPANSION, AND INTERPLATE WIDENING, AND ANGLED TRACTION SPIKES	7,854,766	12/21/2010
6	11/842,855	08/21/2007	BI-DIRECTIONAL FIXATING TRANSVERTEBRAL BODY SCREWS AND POSTERIOR CERVICAL AND LUMBAR INTERARTICULATING JOINT CALIBRATED STAPLING DEVICES FOR SPINAL FUSION	7,942,903	05/17/2011
7	12/347,990	12/31/2008	BI-DIRECTIONAL FIXATING TRANSVERTEBRAL BODY SCREWS, ZERO-PROFILE HORIZONTAL INTERVERTEBRAL MINIPATES, EXPANSIBLE INTERVERTEBRAL BODY FUSION DEVICES, AND POSTERIOR MOTION-CALIBRATING INTERARTICULATING JOINT STAPLING DEVICE FOR SPINAL FUSION	7,951,180	05/31/2011

MULTIPLE ASSIGNMENTS

	Application Serial No.	Filing Date	Title of the Invention	U.S. Patent No.	Issue Date
8	12/054,335	03/24/2008	BI-DIRECTIONAL FIXATING/LOCKING TRANSVERSE BRACKETS AND POSTERIOR CERVICAL AND LUMBAR INTERARTICULATING JOINT STAPLING GUNS AND DEVICES FOR SPINAL FUSION	7,972,363	07/05/2011
9	11/684,787	03/12/2007	TOTALLY WIRELESS ELECTRONICALLY EMBEDDED ACTION-ENDED ENDOSCOPE UTILIZING DIFFERENTIAL DIRECTIONAL ILLUMINATION WITH DIGITALLY CONTROLLED MIRRORS AND/OR PRISMS	8,251,891	08/28/2012
10	12/471,345	05/22/2009	POSTERIOR CERVICAL AND LUMBAR INTERARTICULATING JOINT STAPLES, STAPLING GUNS, AND DEVICES FOR SPINAL FUSION	8,257,370	09/04/2012
11	13/084,543	04/11/2011	BI-DIRECTIONAL FIXATING TRANSVERSE BRACKETS AND POSTERIOR CERVICAL AND LUMBAR INTERARTICULATING JOINT CALIBRATED STAPLING DEVICES FOR SPINAL FUSION	8,353,913	01/15/2013
12	11/843,334	11/20/2007	ARTIFICIAL CERVICAL AND LUMBAR DISCS, DISC PLATE INSERTION GUN FOR PERFORMING SEQUENTIAL SINGLE PLATE INTERVERTEBRAL IMPLANTATION ENABLING SYMMETRIC BI-DISC PLATE ALIGNMENT FOR INTERPLATE MOBILE CORE PLACEMENT	8,535,379	09/17/2013
13	12/471,346	05/22/2009	BI-DIRECTIONAL FIXATING/LOCKING TRANSVERSE BRACKETS HAVING A CENTRAL SCREW LOCKING LEVER, AND PLIERS AND DEVICES FOR SPINAL FUSION	8,734,516	05/27/2014
14	12/868,451	08/25/2010	BI-DIRECTIONAL FIXATING TRANSVERSE BRACKETS, ZERO-PROFILE HORIZONTAL INTERVERTEBRAL MINIPLATES, TOTAL INTERVERTEBRAL BODY FUSION DEVICES, AND POSTERIOR MOTION-CALIBRATING INTERARTICULATING JOINT STAPLING DEVICE FOR SPINAL FUSION	8,747,444	06/10/2014
15	13/101,129	05/04/2011	INTERARTICULATING SPINOUS AND TRANSVERSE PROCESS STAPLES FOR SPINAL FUSION	8,784,450	07/22/2014
16	12/889,328	09/23/2010	ARTIFICIAL TOTAL LUMBAR DISC FOR UNILATERAL SAFE AND SIMPLE POSTERIOR PLACEMENT IN THE LUMBAR SPINE, AND REMOVEABLE BIFUNCTIONAL SCREW WHICH DRIVES VERTICAL SLIDING EXPANSIBLE PLATE EXPANSION, AND INTERPLATE WIDENING, AND ANGLED TRACTION SPIKES		
17	12/945,835	11/13/2010	ELECTRONICALLY CONTROLLED ARTIFICIAL INTERVERTEBRAL DISC WITH MOTOR ASSISTED ACTUATION SYSTEMS (As Amended)		
18	12/957,776	12/01/2010	HORIZONTAL-TRANSVERSE CURVILINEAR NAIL-SCREWS WITH INTER-LOCKING RIGID OR JOINTED FLEXIBLE RODS FOR SPINAL FUSION		
19	12/983,107	12/31/2010	TOTAL ARTIFICIAL SPINO-LAMINAR PROSTHETIC REPLACEMENT		

MULTIPLE ASSIGNMENTS

	Application Serial No.	Filing Date	Title of the Invention	U.S. Patent No.	Issue Date
20	13/093,812	04/25/2011	BI-DIRECTIONAL FIXATING TRANSVERTEBRAL BODY SCREWS, ZERO-PROFILE HORIZONTAL INTERVERTEBRAL MINIPLATES, EXPANSIBLE INTERVERTEBRAL BODY FUSION DEVICES, AND POSTERIOR MOTION-CALIBRATING INTERARTICULATING JOINT STAPLING DEVICE FOR SPINAL FUSION		
21	13/101,135	05/04/2011	SPINOUS PROCESS STAPLE WITH INTERDIGITATING-INTERLOCKING HEMI-SPACERS FOR ADJACENT SPINOUS PROCESS SEPARATION AND DISTRACTION		
22	13/103,994	05/09/2011	BI-DIRECTIONAL FIXATING/LOCKING TRANSVERTEBRAL BODY SCREW/INTERVERTEBRAL CAGE STAND-ALONE CONSTRUCTS AND POSTERIOR CERVICAL AND LUMBAR INTERARTICULATING JOINT STAPLING GUNS AND DEVICES FOR SPINAL FUSION		
23	13/108,982	05/16/2011	BI-DIRECTIONAL FIXATING TRANSVERTEBRAL BODY SCREWS AND POSTERIOR CERVICAL AND LUMBAR INTERARTICULATING JOINT CALIBRATED STAPLING DEVICES FOR SPINAL FUSION		
24	13/210,150	08/15/2011	BI-DIRECTIONAL FIXATING TRANSVEPTEBRAL BODY SCREWS AND POSTERIOR CERVICAL AND LUMBAR INTERARTICULATING JOINT CALIBRATED STAPLING DEVICES FOR SPINAL FUSION		
25	13/210,157	08/15/2011	BI-DIRECTIONAL FIXATING TRANSVERTEBRAL BODY SCREWS AND POSTERIOR CERVICAL AND LUMBAR INTERARTICULATING JOINT CALIBRATED STAPLING DEVICES FOR SPINAL FUSION		
26	13/210,162	08/15/2011	BI-DIRECTIONAL FIXATING TRANSVERTEBRAL BODY SCREWS AND POSTERIOR CERVICAL AND LUMBAR INTERARTICULATING JOINT CALIBRATED STAPLING DEVICES FOR SPINAL FUSION		
27	13/210,168	08/15/2011	BI-DIRECTIONAL FIXATING TRANSVERTEBRAL BODY SCREWS AND POSTERIOR CERVICAL AND LUMBAR INTERARTICULATING JOINT CALIBRATED STAPLING DEVICES FOR SPINAL FUSION		
28	13/401,829	02/21/2012	BI-DIRECTIONAL FIXATING/LOCKING TRANSVERTEBRAL BODY SCREW/INTERVERTEBRAL CAGE STAND-ALONE CONSTRUCTS		
29	13/418,323	03/12/2012	BI-DIRECTIONAL FIXATING/LOCKING TRANSVERTEBRAL BODY SCREW/INTERVERTEBRAL CAGE STAND-ALONE CONSTRUCTS		
30	13/418,335	03/12/2012	BI-DIRECTIONAL FIXATING/LOCKING TRANSVERTEBRAL BODY SCREW/INTERVERTEBRAL CAGE STAND-ALONE CONSTRUCTS WITH VERTICAL HEMI-BRACKET SCREW LOCKING MECHANISM		
31	13/596,038	08/27/2012	TOOLS FOR IMPLANTATION AND EXTRACTION OF POSTERIORLY PLACED LUMBAR ARTIFICIAL DISCS INCLUDING A TOTALLY WIRELESS ELECTRONICALLY EMBEDDED ACTION-ENDED ENDOSCOPE UTILIZING DIFFERENTIAL DIRECTIONAL ILLUMINATION WITH DIGITALLY CONTROLLED MIRRORS AND/OR PRISMS, AND A DISC BALL INSERTER, A PLATE EXTRACTOR, AND RESCUE DISC PLATES		
32	13/741,361	01/14/2013	BI-DIRECTIONAL FIXATING TRANSVERTEBRAL BODY SCREWS AND POSTERIOR CERVICAL AND LUMBAR INTERARTICULATING JOINT CALIBRATED STAPLING DEVICES FOR SPINAL FUSION		

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	Application Serial No.	Filing Date	Title of the Invention	U.S. Patent No.	Issue Date
33	13/893,326	05/13/2013	ARTIFICIAL CERVICAL AND LUMBAR DISCS, DISC PLATE INSERTION GUN FOR PERFORMING SEQUENTIAL SINGLE PLATE INTERVERTEBRAL IMPLANTATION ENABLING SYMMETRIC BI-DISC PLATE ALIGNMENT FOR INTERPLATE MOBILE CORE PLACEMENT		
34	14/049,743	10/09/2013	ENDOSCOPIC SURGICAL SYSTEM		
35	14/063,197	10/25/2013	ZERO-PROFILE EXPANDABLE INTERVERTEBRAL SPACER DEVICES FOR DISTRACTION AND SPINAL FUSION AND A UNIVERSAL TOOL FOR THEIR PLACEMENT AND EXPANSION		
36	14/257,650	04/21/2014	BI-DIRECTIONAL FIXATING/LOCKING TRANSVERTEBRAL BODY SCREW/INTERVERTEBRAL CAGE STAND-ALONE CONSTRUCTS HAVING A CENTRAL SCREW LOCKING LEVER, AND PLIERS AND DEVICES FOR SPINAL FUSION		
37	14/299,711	06/09/2014	BI-DIRECTIONAL FIXATING TRANSVERTEBRAL BODY SCREWS, ZERO-PROFILE HORIZONTAL INTERVERTEBRAL MINIPATES, TOTAL INTERVERTEBRAL BODY FUSION DEVICES, AND POSTERIOR MOTION-CALIBRATING INTERARTICULATING JOINT STAPLING DEVICE FOR SPINAL FUSION		
38	14/337,210	07/21/2014	CERVICAL SPINOUS PROCESS STAPLE		
39	14/460,330	08/14/2014	SYSTEMS AND APPARATUSES FOR IMPROVED VISUALIZATION OF ENDOSCOPIC IMAGES		
40	14/739,327	06/15/2015	ARTIFICIAL CERVICAL AND LUMBAR DISCS, DISC PLATE INSERTION GUN FOR PERFORMING SEQUENTIAL SINGLE PLATE INTERVERTEBRAL IMPLANTATION ENABLING SYMMETRIC BI-DISC PLATE ALIGNMENT FOR INTERPLATE MOBILE CORE PLACEMENT		
41	15/054,926	02/26/2016	BI-DIRECTIONAL FIXATING TRANSVERTEBRAL BODY SCREWS AND POSTERIOR CERVICAL AND LUMBAR INTERARTICULATING JOINT CALIBRATED STAPLING DEVICES FOR SPINAL FUSION		

Name

of Assignee WHEREAS, Nathan C. Moskowitz

Address

of Assignee of 212 North Adams Street, Rockville MD 20850 US

his heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said inventions, applications and in and to any Letters Patent(s) that may be granted therefor in the United States of America and in any foreign countries.

NOW, THEREFORE, in consideration of the sum of Five Dollars (\$5.00) to the Assignor in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the Assignor has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said inventions in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries including all rights of priority arising from the applications and Letters Patents;

MULTIPLE ASSIGNMENTS

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted;

and to any and all causes of action, rights, and remedies arising under any such applications and Letters Patents prior to or after the effective date of this Agreement including the right to recover damages for any infringement of any rights in and to the inventions and any patents therefrom prior to the effective date of the agreement.

The Assignor agrees to execute all papers necessary in connection with these applications and any continuing, divisional, conversion, reissue, or reexamination application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The Assignor agrees to, upon request and without further compensation, perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to the Assignee as fully and entirely as the same would have been held by the Assignor if this Assignment and sale had not been made.

The Assignor agrees to, upon request and without further compensation, execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The Assignor hereby authorizes and requests the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from the applications or any continuing, divisional conversion or reissue applications thereof to the Assignee, as Assignee of the entire interest, and hereby covenants that he has the full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict herewith.

The Assignor agrees to, upon request and without further compensation, execute all papers necessary in connection with any interference which may be declared concerning the applications or continuations, divisions, conversions or reissues thereof or Letter Patent(s) or reissue patent(s) issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The Assignor agrees to, upon request and without further compensation, communicate to the Assignee any facts known to the Assignor respecting the invention and to testify in any legal proceedings concerning the applications or continuations, divisions, conversions or reissues thereof or Letter Patent(s) or reissue patent(s) issued thereon, to execute all lawful papers necessary in connection with enforcing proper patent protection of the inventions in all countries, and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such enforcement of patent protection.

The Assignor hereby grants the law firm of Dresch IP Law, PLLC and Assignee the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

The Assignor hereby represents and warrants that no act has been or will be performed which would statutorily bar a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee.

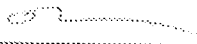
Assignor hereby grants Assignee the right to sell, transfer, or otherwise alienate the invention(s), application(s), and/or Letters Patent(s), and/or the continuation(s), division(s), conversion(s), or reissue(s) thereof or Letter Patent(s) or reissue patent(s) issued thereon to third party(ies) in whole or in part including the right to license and sub-license.

Assignor hereby waives any right or claim to a "shop" use or "shop right" of the invention.

MULTIPLE ASSIGNMENTS

In witness whereof, executed by the Assignor on the date(s) opposite the Assignor name(s).

Date 7/3/16

Name of Inventor (Assignor) 
(Signature of Mosheh T. MOSKOWITZ)