

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4367537

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST

**CONVEYING PARTY DATA**

Name	Execution Date
SPINAL ELEMENTS, INC.	04/13/2017

**RECEIVING PARTY DATA**

<b>Name:</b>	ANTARES CAPITAL LP, AS AGENT
<b>Street Address:</b>	500 WEST MONROE STREET
<b>City:</b>	CHICAGO
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	60661

**PROPERTY NUMBERS Total: 105**

Property Type	Number
Patent Number:	9504583
Patent Number:	9357985
Patent Number:	7744612
Patent Number:	9072608
Patent Number:	8500763
Patent Number:	7846183
Patent Number:	8858597
Patent Number:	8998953
Patent Number:	8740942
Patent Number:	8882804
Patent Number:	7998172
Patent Number:	8496708
Patent Number:	8496691
Patent Number:	9265546
Patent Number:	8100955
Patent Number:	8696721
Patent Number:	8470039
Patent Number:	8801794
Application Number:	14318421
Patent Number:	D533277

PATENT

<b>Property Type</b>	<b>Number</b>
Patent Number:	D539934
Patent Number:	D564095
Patent Number:	D524443
Patent Number:	D566276
Patent Number:	D541940
Patent Number:	8771282
Patent Number:	9421020
Patent Number:	8652137
Patent Number:	9060787
Patent Number:	8172854
Patent Number:	8764762
Patent Number:	8500811
Patent Number:	8828055
Patent Number:	9131964
Patent Number:	8864767
Patent Number:	9220547
Patent Number:	8992533
Patent Number:	9517077
Patent Number:	8888820
Patent Number:	8864770
Patent Number:	8142355
Patent Number:	8740786
Application Number:	14263927
Patent Number:	8409091
Patent Number:	8062304
Patent Number:	8551105
Patent Number:	8454622
Patent Number:	9089438
Patent Number:	9468473
Patent Number:	9408596
Patent Number:	8740949
Patent Number:	9301786
Patent Number:	9179943
Patent Number:	D724733
Patent Number:	D777921
Patent Number:	D748793
Patent Number:	D748262
Patent Number:	9271765

Property Type	Number
Patent Number:	9572602
Patent Number:	D739935
Patent Number:	D765854
Patent Number:	D780315
Patent Number:	D765853
Patent Number:	9421044
Patent Number:	9456855
Application Number:	14822780
Application Number:	62036053
Application Number:	15360400
Application Number:	14333336
Application Number:	14979262
Application Number:	14935276
Application Number:	14942675
Application Number:	62080881
Application Number:	62376835
Application Number:	14624340
Application Number:	14499876
Application Number:	14632295
Application Number:	11374662
Application Number:	14176929
Application Number:	15413778
Application Number:	14712800
Application Number:	14822607
Application Number:	14938503
Application Number:	14518914
Application Number:	12195285
Application Number:	13768922
Application Number:	15204329
Application Number:	14869793
Application Number:	15387078
Application Number:	29562284
Application Number:	13804407
Application Number:	29448946
Application Number:	29590386
Application Number:	15215137
Application Number:	15245664
Application Number:	14274575

Property Type	Number
Application Number:	61883960
Application Number:	14995618
Application Number:	15010204
Application Number:	62303593
Application Number:	15447661
Application Number:	62306010
Application Number:	11499860
Application Number:	11374665
Application Number:	10991956

**CORRESPONDENCE DATA**

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**Email:** oscar.ruiz@kattenlaw.com  
**Correspondent Name:** OSCAR RUIZ C/O KATTEN MUCHIN ROSENMAN  
**Address Line 1:** 525 WEST MONROE STREET  
**Address Line 4:** CHICAGO, ILLINOIS 60661

<b>ATTORNEY DOCKET NUMBER:</b>	387132-195
<b>NAME OF SUBMITTER:</b>	OSCAR RUIZ
<b>SIGNATURE:</b>	/Oscar Ruiz/
<b>DATE SIGNED:</b>	04/13/2017

**Total Attachments: 9**  
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## PATENT SECURITY AGREEMENT

THIS PATENT SECURITY AGREEMENT, dated as of April 13, 2017, is made by Spinal Elements, Inc., a Delaware corporation (“Grantor”), in favor of Antares Capital LP (“Antares Capital”), as administrative agent (in such capacity, together with its successors and permitted assigns, the “Agent”) for the Secured Parties (as defined in the Credit Agreement referred to below).

### WITNESSETH:

WHEREAS, pursuant to the Amended and Restated Credit Agreement, dated as of the date hereof (as the same may be amended, restated, supplemented and/or otherwise modified from time to time (“Credit Agreement”), by and among the Borrower, Holdings, the other Credit Parties, the Lenders and the L/C Issuer from time to time party thereto and Antares Capital, as Agent for the Lenders and the L/C Issuer, the Lenders and the L/C Issuer have severally agreed to make extensions of credit to the Borrower upon the terms and subject to the conditions set forth therein;

WHEREAS, Grantor (other than the Borrower) has agreed, pursuant to a Guaranty and Security Agreement of April 29, 2016 in favor of Agent (as such agreement may be amended, restated, amended and restated, supplemented and/or otherwise modified from time to time, the “Guaranty and Security Agreement”), to guarantee the Obligations (as defined in the Credit Agreement) of the Borrower; and

WHEREAS, Grantor is party to the Guaranty and Security Agreement pursuant to which Grantor is required to execute and deliver this Patent Security Agreement;

NOW, THEREFORE, in consideration of the premises and to induce the Lenders, the L/C Issuers and Agent to enter into the Credit Agreement and to induce the Lenders and the L/C Issuers to make their respective extensions of credit to the Borrower thereunder, Grantor hereby agrees with Agent for the benefit of the Secured Parties as follows:

Section 1.     Defined Terms. Capitalized terms used herein without definition are used as defined in the Guaranty and Security Agreement.

Section 2.     Grant of Security Interest in Patent Collateral. Grantor, as collateral security for the prompt and complete payment and performance when due (whether at stated maturity, by acceleration or otherwise) of the Secured Obligations of Grantor, hereby grants to Agent for the benefit of the Secured Parties a Lien on and security interest in, all of its right, title and interest in, to and under the following Collateral of Grantor (the “Patent Collateral”):

(a) all of its Patents, including, without limitation, those referred to on Schedule 1 hereto;

(b) all reissues, reexaminations, continuations, continuations-in-part, divisionals, renewals and extensions of the foregoing; and

(c) all income, royalties, proceeds and Liabilities at any time due or payable or asserted under and with respect to any of the foregoing, including, without limitation, all rights to sue and recover at law or in equity for any past, present and future infringement, misappropriation, dilution, violation or other impairment thereof.

Section 3. Guaranty and Security Agreement. The security interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interest granted to the Agent pursuant to the Guaranty and Security Agreement and Grantor hereby acknowledges and agrees that the rights and remedies of the Agent with respect to the security interest in the Patent Collateral made and granted hereby are more fully set forth in the Guaranty and Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein.

Section 4. Grantor Remains Liable. Grantor hereby agrees that, subject to the terms and conditions of the Credit Agreement and the Guaranty and Security Agreement, anything herein to the contrary notwithstanding, Grantor shall assume full and complete responsibility for the prosecution, defense, enforcement or any other necessary or desirable actions in connection with their Patents subject to a security interest hereunder.

Section 5. Counterparts. This Patent Security Agreement may be executed in any number of counterparts and by different parties in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Signature pages may be detached from multiple separate counterparts and attached to a single counterpart. Delivery of an executed signature page of this Patent Security Agreement by facsimile transmission or by Electronic Transmission shall be as effective as delivery of a manually executed counterpart hereof.

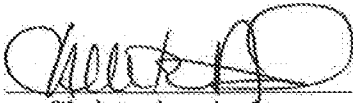
Section 6. Governing Law. This Patent Security Agreement and the rights and obligations of the parties hereto shall be governed by, and construed and interpreted in accordance with, the law of the State of New York.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, each Grantor has caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

Very truly yours,

**SPINAL ELEMENTS, INC.**, a Delaware corporation,  
as Grantor

By:   
Name: Christopher Anderson  
Title: Vice President

ACCEPTED AND AGREED  
as of the date first above written:

**ANTARES CAPITAL LP**, as Agent

By: *Ashley G. Medio*

Name: Ashley G. Medio

Title: Duly Authorized Signatory



SCHEDULE I  
TO  
PATENT SECURITY AGREEMENT

Patent Registrations

1. REGISTERED PATENTS

Title	Application No. (Date)	Publication No./Patent No. (Date)	Status
Implant and Method For Facet Immobilization	12/106248 (4/18/2008)	9504583 (11/29/16)	Issued
Method For Accessing a Spinal Facet Joint	12/121293 (5/15/08)	9357985 (6/7/16)	Issued
System and Method for Protecting Neurovascular Structures	11/055162 (2/10/05)	7744612 (6/29/10)	Issued
System and Method for Protecting Neurovascular Structures	13/937438 (7/9/13)	9072608 (7/7/15)	Issued
System and Method for Protecting Neurovascular Structures	12/782002 (5/18/10)	8500763 (8/6/13)	Issued
Vertebral Facet Joint Prosthesis and Method of Fixation	10/865073 (6/10/04)	7846183 (12/7/10)	Issued
Vertebral Facet Joint Prosthesis and Method of Fixation	12/960309 (12/3/2010)	8858597 (10/14/14)	Issued
Vertebral Facet Joint Prosthesis and Method of Fixation	13/221185 (8/30/11)	8998953 (4/7/15)	Issued
Vertebral Facet Joint Prosthesis and Method of Fixation	13/747927 (1/23/12)	8740942 (6/3/14)	Issued
Vertebral Facet Joint Prosthesis and Method of Fixation	13/888172 (5/6/13)	8882804 (11/11/14)	Issued
Vertebral Facet Joint Prosthesis and Method of Fixation	12/425298 (4/16/09)	7998172 (8/16/11)	Issued
Flanged Interbody Device With Hinge	11/374668 (3/13/06)	8496708 (7/30/13)	Issued
Side-Biased Orthopedic Fastener Retention	11/374659 (3/13/06)	8496691 (7/30/13)	Issued
Side-Biased Orthopedic Fastener Retention	13/893134 (3/13/06)	9265546 (7/30/13)	Issued
Orthopedic Expansion Fastener	11/374658 (3/13/06)	8100955 (01/24/12)	Issued
Orthopedic Expansion Fastener	13/333652 (12/21/11)	8696721 (4/15/14)	Issued
Flanged Interbody Fusion Device With Fastener Insert and Retaining Ring	11/374462 (3/13/06)	8470039 (6/25/13)	Issued
Flanged Interbody Fusion Device With Fastener Insert and Retaining Ring	13/901327 (5/23/13)	8801794 (8/12/14)	Issued

Flanged Interbody Fusion Device With Fastener Insert and Retaining Ring	14/318421 (6/27/14)	2014/0336768 (11/13/14)	Issued
Interbody Fusion Device	29/242012 (11/4/05)	D533277 (12/05/06)	Issued
Interbody Fusion Device	29/257473 (4/3/06)	D539934 (04/03/07)	Issued
Interbody Fusion Device	29/273496 (4/3/06)	D564095 (03/11/08)	Issued
Interbody Fusion Device	29/242035 (11/4/05)	D524443 (07/04/06)	Issued
Interbody Fusion Device	29/264695 (4/3/06)	D566276 (04/08/08)	Issued
Interbody Fusion Device	29/257474 (4/3/06)	D541940 (05/01/07)	Issued
Drill Guide With Rotating Handle	11/693145 (3/29/07)	8771282 (7/8/14)	Issued
Drill Guide With Rotating Handle	14/286457 (5/23/14)	9421020 (8/23/16)	Issued
Vertebral Facet Joint Drill and Method of Use	12/035366 9 (2/21/08)	8652137 (2/18/14)	Issued
Method of using Vertebral Facet Joint Drill	13/585242 (8/14/12)	9060787 (6/23/15)	Issued
Attachable Instrument Guide With Detachable Handle	12/176137 (7/18/08)	8172854 (5/8/12)	Issued
Attachable Instrument Guide With Detachable Handle	13/426388 (3/21/12)	8764762 (7/1/14)	Issued
Device and Method for Delivery of Multiple Heterogenous Orthopedic Implants	12/167173 (7/2/08)	8500811 (8/6/13)	Issued
Transverse Connector	12/764850 (4/21/10)	8828055 (9/9/14)	Issued
Transverse Connector	14/445535 (7/29/14)	9131964 (9/15/15)	Issued
Rod Introducer Instrument For Spinal Surgery	12/268312 (11/10/2008)	8864767 (10/21/14)	Issued
Flanged Interbody Fusion Device	12/748333 (3/26/10)	9220547 (12/29/15)	Issued
Vertebral Facet Joint Drill and Method of Use	12/859009 (8/18/10)	8992533 (3/31/15)	Issued
Vertebral Facet Joint Drill and Method of Use	14/629830 (2/24/15)	9517077 (12/13/16)	Issued
Spinal Stabilization Device	12/147159 (6/26/08)	8888820 (11/18/14)	Issued
Offset Opposing Arm Spinal Implant Distractor/Insertter	12/047178 (3/12/08)	8864770 (10/21/14)	Issued
Surgical Tissue Retractor	11/861149 (9/25/07)	8142355 (3/27/12)	Issued
Method of Using a Surgical Tissue Retractor	13/786200 (3/5/13)	8740786 (6/3/14)	Issued
Retractor	14/263927 (4/28/2014)	2014/0257044 (9/11/14)	Issued
Method of Using a Surgical Tissue Retractor	13/352676 (1/18/12)	8409091 (4/2/13)	Issued

Spinal Implant Distractor/Inserter	11/740242 (4/25/07)	8062304 (11/22/11)	Issued
Spinal Implant Distractor/Inserter	13/270908 (10/11/11)	8551105 (10/8/13)	Issued
Spinal Implant Distractor/Inserter	12/147380 (6/26/08)	8454622 (6/4/13)	Issued
Apparatus For Promoting Movement of Nutrients to Intervertebral Space and Method of Use	13/534307 (6/27/12)	9089438 (7/28/15)	Issued
Apparatus For Promoting Movement of Nutrients to Intervertebral Space and Method of Use	14/746408 (6/22/15)	9468473 (10/18/16)	Issued
Method of Using a Surgical Tissue Retractor	13/794470 (3/11/13)	9408596 (8/9/16)	Issued
Methods and Apparatus for Stabilizing Bone	13/033791 (2/24/11)	8740949 (6/3/14)	Issued
Methods and Apparatus for Stabilizing Bone	13/211052 (8/16/11)	9301786 (4/5/16)	Issued
Methods and Apparatus for Stabilizing Bone	14/256532 (4/18/14)	9179943 (11/10/15)	Issued
Interbody Bone Implant	29/404922 (10/26/11)	D724733 (3/17/15)	Issued
Interbody Bone Implant	29/545447 (11/12/15)	D777921 (1/31/17)	Issued
Interbody Bone Implant	29/515527 (1/23/15)	D748793 (2/02/16)	Issued
Interbody Bone Implant	29/515551 (1/23/15)	D748262 (1/26/16)	Issued
Vertebral Facet Joint Fusion Implant and Method for Fusion	13/403698 (2/23/2012)	9271765 (3/1/16)	Issued
Vertebral Facet Joint Fusion Implant and Method for Fusion	15/000261 (1/19/16)	9572602 (2/21/17)	Issued
Interbody Bone Implant	29/404921 (10/26/11)	D739935 (09/29/15)	Issued
Interbody Bone Implant	29/537496 (8/26/15)	D765854 (09/06/16)	Issued
Flexible Elongate Member With a Portion Configured to Receive a Bone Anchor	29/564519 (5/13/16)	D780315 (2/28/17)	Issued
Flexible Elongate Member With a Portion Configured to Receive a Bone Anchor	29/537074 (8/21/15)	D765853 (9/06/16)	Issued
Apparatus For Bone Stabilization and Distraction and Methods of Use	13/804521 (3/14/13)	9421044 (8/23/16)	Issued
Method of Placing an Implant Between Bone Portions	14/491820 (9/19/14)	9456855 (10/4/16)	Issued

2. PATENT APPLICATIONS

Title	Application No. (Date)	Publication No./ Patent No. (Date)	Status
Articulating Rod Inserter	14/822780 (8/10/15)	2016/0038197 (2/11/16)	Pending
Articulating Rod Inserter	62/036053 (8/10/2015)	N/A	Expired
Implant and Method For Facet Immobilization	15/360400 (11/23/2016)	N/A	Pending
Expandable Interbody Device	14/333336 (7/16/14)	2015/0190242 (7/09/15)	Pending
Surgical Tool Lights	14/979262 (12/22/15)	2016/0184046 (06/30/16)	Pending
Apparatus and Method of Treating Spinous Processes	14/935276 (11/6/15)	2016/0228157 (08/11/16)	Pending
Curved Surgical Tools	14/942675 (11/16/15)	2016/0135862 (05/19/16)	Pending
Curved Surgical Tools	62/080881 (11/16/2015)	N/A	Expired
Material Delivery Surgical Device	62/376835 (8/18/2016)	N/A	Pending
System and Method for Protecting Neurovascular Structures	14/624340 (2/17/15)	2015/0157325 (06/11/15)	Pending
Vertebral Facet Joint Prosthesis and Method of Fixation	14/499876 (9/29/14)	2015/0081023 (03/19/15)	Pending
Vertebral Facet Joint Prosthesis and Method of Fixation	14/632295 (2/16/15)	2015/0196330 (07/16/15)	Pending
Flanged Interbody Device With Locking Plate	11/374662 (3/13/06)	2006/0235403 (10/19/06)	ABA
Orthopedic Expansion Fastener	14/176929 (3/13/06)	N/A	ABA
Flanged Interbody Fusion Device With Fastener Insert and Retaining Ring	15/413778 (1/24/2017)	N/A	Pending
Vertebral Facet Joint Drill and Method of Use	14/712800 (5/14/15)	2015/0257773 (9/17/15)	Pending
Transverse Connectors	14/822607 (8/10/2015)	N/A	ABA
Flanged Interbody Fusion Device	14/938503 (11/11/15)	2016/0058481 (3/3/16)	Pending
Spinal Stabilization Device	14/518914 (10/20/14)	2015/0057709 (2/26/15)	NOA
Loop Rod Spinal Stabilization Device	12/195285 (8/20/08)	2009/0088800 (4/2/09)	ABA
Interbody Fusion Device	13/768922 (2/15/13)	2013/0218277 (08/22/13)	Pending
Method of Using a Surgical Tissue Retractor	15/204329 (7/7/16)	2017/0014121 (01/19/17)	Pending
Methods and Apparatus for Stabilizing Bone	14/869793 (9/29/15)	2016/0051294 (02/25/16)	Pending
Vertebral Facet Joint Fusion Implant and Method for Fusion	15/387078 (2/24/11)	N/A	Pending

Interbody Bone Implant	29/562284 (4/25/2016)	N/A	Pending
Apparatus For Spinal Fixation and Methods of Use	13/804407 (3/14/13)	2014/0277142 (09/18/14)	Pending
Flexible Elongate Member With a Portion Configured to Receive a Bone Anchor	29/448946 (3/14/2013)	N/A	ABA
Flexible Elongate Member With a Portion Configured to Receive a Bone Anchor	29/590386 (1/10/2017)	N/A	Pending
Apparatus For Bone Stabilization and Distraction and Methods of Use	15/215137 (7/20/16)	2016/0324549 (11/10/16)	Pending
Method of Placing an Implant Between Bone Portions	15/245664 (8/24/16)	20170000527 (1/5/17)	Pending
Device and Method for Reinforcement of a Facet	14/274575 (5/9/14)	2015/0094766 (04/02/15)	Pending
Device and Method for Reinforcement of a Facet	61/883960	N/A	Expired
Facet Joint Implant	14/995618 (1/14/16)	2016/0213481 (7/28/16)	Pending
Interbody Implant Inserter	15/010204 (1/29/16)	2016/0220388 (8/4/16)	Pending
Rod Reducer Instrument For Spinal Surgery	62/303593 (3/4/2016)	N/A	Expired
Rod Reducer Instrument For Spinal Surgery	15/447661 (3/2/2017)	N/A	Pending
Retractor	62/306010 (3/9/2016)	N/A	Expired
Flanged Interbody Fusion Device With Oblong Fastener Apertures	11/499860 (8/4/06)	20070055252 (3/8/07)	Pending
Flanged Interbody Fusion Device	11/374665 (3/13/06)	20060235409 (10/19/06)	Pending
Osteoconductive Integrated Spinal Cage and Method of Make Same	10/991956 (11/18/04)	20050228498 (10/13/05)	Pending