

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

EPAS ID: PAT6860318

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF SECURITY INTEREST IN PATENT COLLATERAL AT REEL/FRAME NO. 47494/0562

**CONVEYING PARTY DATA**

Name	Execution Date
SQUADRON MEDICAL FINANCE SOLUTIONS LLC	08/04/2021

**RECEIVING PARTY DATA**

<b>Name:</b>	ALPHATEC HOLDINGS, INC.
<b>Street Address:</b>	1950 CAMINO VIDA ROBLE
<b>City:</b>	CARLSBAD
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92008
<b>Name:</b>	ALPHATEC SPINE, INC.
<b>Street Address:</b>	1950 CAMINO VIDA ROBLE
<b>City:</b>	CARLSBAD
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92008

**PROPERTY NUMBERS Total: 179**

Property Type	Number
Patent Number:	6770096
Patent Number:	7060099
Patent Number:	7081116
Patent Number:	7147664
Patent Number:	7172627
Patent Number:	7306604
Patent Number:	7335200
Patent Number:	7377923
Patent Number:	7422597
Patent Number:	7481813
Patent Number:	7485145
Patent Number:	7591852
Patent Number:	7594932
Patent Number:	7632278
Patent Number:	7666210

**PATENT**

<b>Property Type</b>	<b>Number</b>
Patent Number:	7780594
Patent Number:	7806912
Patent Number:	7819920
Patent Number:	7862615
Patent Number:	7892266
Patent Number:	8070740
Patent Number:	8070819
Patent Number:	8075594
Patent Number:	8080060
Patent Number:	8092498
Patent Number:	8137387
Patent Number:	8152714
Patent Number:	8172878
Patent Number:	8192438
Patent Number:	8192466
Patent Number:	8206420
Patent Number:	8262660
Patent Number:	8273112
Patent Number:	8298265
Patent Number:	8328870
Patent Number:	8382805
Patent Number:	8394109
Patent Number:	8425602
Patent Number:	8425610
Patent Number:	8454623
Patent Number:	8469960
Patent Number:	8480711
Patent Number:	8491658
Patent Number:	8518083
Patent Number:	8562655
Patent Number:	8636773
Patent Number:	8636775
Patent Number:	8657832
Patent Number:	8657858
Patent Number:	8702756
Patent Number:	8702761
Patent Number:	8747440
Patent Number:	8821502

Property Type	Number
Patent Number:	8828082
Patent Number:	8834527
Patent Number:	8834540
Patent Number:	8882661
Patent Number:	8900276
Patent Number:	8906034
Patent Number:	8906064
Patent Number:	8911442
Patent Number:	8932303
Patent Number:	8936627
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Patent Number:	8979933
Patent Number:	8986319
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Patent Number:	9060812
Patent Number:	9060825
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Patent Number:	9107703
Patent Number:	9107760
Patent Number:	9204896
Patent Number:	9233008
Patent Number:	9271770
Patent Number:	9308028
Patent Number:	9320550
Patent Number:	9402662
Patent Number:	9402736
Patent Number:	9408643
Patent Number:	9463096
Patent Number:	9468474
Patent Number:	9526537
Patent Number:	9532819
Patent Number:	9539036
Patent Number:	9545271
Patent Number:	9561062
Patent Number:	9572685
Patent Number:	9585702
Patent Number:	9603611

<b>Property Type</b>	<b>Number</b>
Patent Number:	9603718
Patent Number:	9622796
Patent Number:	9636147
Patent Number:	9642654
Patent Number:	9642723
Patent Number:	9649134
Patent Number:	9681905
Patent Number:	9693762
Patent Number:	9707018
Patent Number:	9730683
Patent Number:	RE40260
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Patent Number:	9763805
Patent Number:	9757162
Patent Number:	9737344
Patent Number:	9795418
Patent Number:	9844400
Patent Number:	9877756
Patent Number:	9888945
Patent Number:	9907583
Patent Number:	9913664
Application Number:	13666099
Application Number:	13786798
Application Number:	14060424
Application Number:	14134478
Application Number:	14184967
Application Number:	14471878
Application Number:	14539567
Application Number:	14549965
Application Number:	14673918
Application Number:	14798749
Application Number:	14860521
Application Number:	14877587
Application Number:	14883408
Application Number:	14962848
Application Number:	15017130
Application Number:	15065364
Application Number:	15168859

<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15204558
<b>Application Number:</b>	15205062
<b>Application Number:</b>	15273847
<b>Application Number:</b>	15276059
<b>Application Number:</b>	15289591
<b>Application Number:</b>	15291188
<b>Application Number:</b>	15296989
<b>Application Number:</b>	15297860
<b>Application Number:</b>	15360054
<b>Application Number:</b>	15366224
<b>Application Number:</b>	15378626
<b>Application Number:</b>	15459068
<b>Application Number:</b>	15462528
<b>Application Number:</b>	15595482
<b>Application Number:</b>	15619111
<b>Application Number:</b>	15619896
<b>Application Number:</b>	15626452
<b>Application Number:</b>	62422667
<b>Application Number:</b>	62422634
<b>Application Number:</b>	62422618
<b>Application Number:</b>	62471098
<b>Application Number:</b>	62471128
<b>Application Number:</b>	15453982
<b>Application Number:</b>	15478878
<b>Application Number:</b>	15706555
<b>Application Number:</b>	62574299
<b>Application Number:</b>	62574392
<b>Application Number:</b>	62574905
<b>Application Number:</b>	62574946
<b>Application Number:</b>	15789461
<b>Application Number:</b>	62574970
<b>Application Number:</b>	62579951
<b>Application Number:</b>	62579933
<b>Application Number:</b>	62611474
<b>Application Number:</b>	62611407
<b>Application Number:</b>	62611426
<b>Application Number:</b>	62611439
<b>Application Number:</b>	62614185

Property Type	Number
Application Number:	62628083
Application Number:	62627931
Application Number:	62628120
Patent Number:	6030388
Patent Number:	6241733
Patent Number:	8979930
Patent Number:	9597199
Application Number:	14163797
Application Number:	15875612
Application Number:	15920898
PCT Number:	US2017026045
PCT Number:	US2016053237

**CORRESPONDENCE DATA**

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*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.*

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**Correspondent Name:** LATHAM & WATKINS LLP

**Address Line 1:** 355 SOUTH GRAND AVENUE

**Address Line 4:** LOS ANGELES, CALIFORNIA 90071-1560

<b>ATTORNEY DOCKET NUMBER:</b>	064057-0010
<b>NAME OF SUBMITTER:</b>	RHONDA DELEON
<b>SIGNATURE:</b>	/Rhonda DeLeon/
<b>DATE SIGNED:</b>	08/11/2021

**Total Attachments: 17**

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**RELEASE OF SECURITY INTEREST IN  
PATENT COLLATERAL**

This RELEASE OF SECURITY INTEREST IN PATENT COLLATERAL, dated as of August 4, 2021 (this "Release"), is made by Squadron Medical Finance Solutions LLC, a Delaware limited liability company (the "Lender") in favor of each of Alphatec Holdings, Inc., a Delaware corporation, Alphatec Spine, Inc., a California corporation and Safeop Surgical, Inc., a Delaware corporation (each individually, a "Grantor" and collectively, the "Grantors"). Capitalized terms not otherwise defined herein have the meaning assigned to them in the Patent Security Agreement (as defined below).

**WITNESSETH**

WHEREAS, the Grantors and the Lender are parties to that certain Credit, Security and Guaranty Agreement, dated as of November 6, 2018 (as amended, modified or supplemented from time to time, the "Credit Agreement");

WHEREAS, pursuant to the Credit Agreement, the Grantors executed the Patent Security Agreement, dated as of November 6, 2018 (the "Patent Security Agreement") and recorded with the U.S. Patent and Trademark Office on November 9, 2018 at Reel/Frame Nos. 047494/0562 and 48101/0635, pursuant to which the Grantors granted to the Lender a continuing first priority security interest in all of Grantor's right, title and interest in, to and under the Patent Collateral (as defined in the Patent Security Agreement);

WHEREAS, the Grantors have requested that the Lender release its security interest in all right, title and interest in, to and under all of the Patent Collateral.

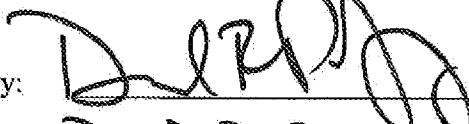
NOW, THEREFORE, in consideration of the foregoing, the Lender hereby DISCHARGES, TERMINATES and RELEASES, without recourse, representation or warranty, its security interest in all right, title and interest in, to and under all of the Patent Collateral, including the issued patents and patent applications set forth in Schedule I attached hereto and incorporated herein by reference, and agrees that all the security interest in the Patent Collateral is hereby discharged, terminated and released. The undersigned hereby transfers and assigns to the applicable Grantor, without recourse, representation or warranty, any and all right, title and interest that the Lender may have obtained in, to and under the Patent Collateral under the Credit Agreement and the Patent Security Agreement.

[SIGNATURE PAGE FOLLOWS]



IN WITNESS WHEREOF, the Lender has caused this Release to be duly executed and delivered as of the date first written above.

**SQUADRON MEDICAL FINANCE SOLUTIONS LLC**

By:   
Name: DAVID R. PEIZZON  
Title: PRESIDENT

SCHEDULE I  
to  
RELEASE OF SECURITY INTEREST IN PATENT COLLATERAL

[See attached.]

**Patents - US**

<u>Reference</u>	<u>Family Title</u>	<u>Patent Number</u>
0106PCT/US/CIP	Intervertebral Spinal Stabilization Cage and Spinal Stabilization Method	6770096
SX0026/US	Disk prosthesis for cervical vertebrae with controlled clearance	7060099
SX0013/US	IMPLANT FOR OSTEOSYNTHESIS DEVICE IN PARTICULAR OF THE BACKBONE	7081116
SX0002/US	POSTERIOR VERTEBRAL JOINT PROSTHESIS	7147664
SX0018/US	PCLASSTABILIZED INTERBODY FUSION SYSTEM FOR VERTEBRAE	7172627
26786-505.c/US	TOP TIGHTENING BONE FIXATION APPARATUS	7306604
SX0021/US	Dynamic intervertebral connection device with controlled multidirectional deflection	7335200
26786-519/US	VARIABLE ANGLE SPINAL SCREW ASSEMBLY	7377923
SX0022/GB	ECROU ROTULE	7422597
26786-531/US	SECURING DEVICE AND CORRESPONDING METHODS THEREOF FOR BONE FIXATION SYSTEMS	7481813
26786-504/US	ARTIFICIAL INTERVERTEBRAL DISC ASSEMBLY	7485145
26786-520-NATL	VERTEBRAL BODY REPLACEMENT CAGE ASSEMBLY	7591852
0103US	APPARATUS FOR ANTERIOR INTERVERTEBRAL SPINAL FIXATION AND FUSION	7594932
26786-515DIV	SERRATOME VERTEBRAL CORTICAL ENDPLATE CUTTER	7632278
SX0020/US	Connection system between a spinal rod and a transverse bar	7666210
26786-509/US	RETRACTOR AND METHODS OF USE	7780594
26786-507/US	TRANSVERSE ROD CONNECTOR	7806912
SX0024/US	Vertebral replacement and distraction device for placing said implant	7819920
SX0031/US	Intervertebral implant with two shapes	7862615
SX0019/US	Bone anchoring device with spherical articulation	7892266
26786-551US	PROCESSES AND SYSTEMS FOR HYDRATING AND SEEDING MEDICAL IMPLANTS WITH BIOLOGICAL...	8070740
0103US/DIV	APPARATUS AND METHOD FOR ANTERIOR INTERVERTEBRAL SPINAL FIXATION AND FUSION	8070819
26786-543/US	MULTI-AXIAL TRANSVERSE ROD CONNECTOR	8075594
ALSPN.009CP1/US	PROCESSES AND SYSTEMS FOR LOADING MEDICAL IMPLANTS WITH SIMULATIVE GROWTH AGENTS	8080060
26786-552US	OCCIPITAL FIXATION SCREW	8092498
26786-507/US	TRANSVERSE ROD CONNECTOR	8137387
26786-568/US	CURVILINEAR SPINAL ACCESS METHOD AND DEVICE	8152714
0101US	CONICAL INTERSPINOUS APPARATUS AND A METHOD OF PERFORMING INTERSPINOUS DISTRACTI...	8172878

**PATENT**

**REEL: 057177 FRAME: 0697**

SX0016.02/US	DISK PROSTHESIS FOR CERVICAL VERTEBRAE	8192438
0101US/CIP	CONICAL INTERSPINOUS APPARATUS AND A METHOD OF PERFORMING INTERSPINOUS DISTRACTI...	8192466
26786-574/US	SPINOUS PROCESS DEVICE AND METHOD OF USE	8206420
26786-515CON/US	SERRATOME VERTEBRAL CORTICAL ENDPLATE CUTTER	8262660
0145US	APPARATUS AND METHOD FOR CONNECTING SURGICAL RODS	8273112
26786-519.1/US	VARIABLE ANGLE SPINAL SCREW ASSEMBLY	8298265
0105US	STAND ALONE INTERBODY FIXATION SYSTEM	8328870
ALSPN.035US/US	BONE SCREW ASSEMBLY FOR LIMITED ANGLULATION	8382805
26786-565002/US	SYSTEMS AND METHODS FOR SPINAL FIXATION	8394109
26786-573/US	CURVILINEAR SPINAL ACCESS METHOD AND DEVICE	8425602
0101US/DIV	CONICAL INTERSPINOUS APPARATUS AND A METHOD OF PERFORMING INTERSPINOUS DISTRACTI...	8425610
0108US	INSTRUMENT FOR INSERTION AND DEPLOYMENT OF FEATURES ON AN IMPLANT	8454623
26786-565001/US	SYSTEMS AND METHODS FOR SPINAL FIXATION	8469960
0150PCT/EP	Instrument and Method for Reducing and Securing Spinal Rods	8480711
0167US	INTERBODY FUSION IMPLANT AND RELATED METHODS	8491658
0101US/DIV	CONICAL INTERSPINOUS APPARATUS AND A METHOD OF PERFORMING INTERSPINOUS DISTRACTI...	8518083
26786-572/US	BONE PLATE ASSEMBLY	8562655
26786-574US/DIV	SPINOUS PROCESS DEVICE AND METHOD OF USE	8636773
26786-536P/DIV	SYSTEMS AND METHODS FOR MANIPULATING AND/OR INSTALLING A PEDICLE SCREW	8636775
26786-570US	Method and Device for Implant Deployment	8657832
8005US	Inter-Body Implantation System and Method	8657858
0114US	CLAMPING INTERSPINOUS SPACER APPARATUS AND METHODS OF USE	8702756
ALSPN.035US/CON	BONE SCREW ASSEMBLY FOR LIMITED ANGLULATION	8702761
0101US/CIP/CON	CONICAL INTERSPINOUS APPARATUS AND A METHOD OF PERFORMING INTERSPINOUS DISTRACTI...	8747440
26786-565002/US/CIP1	Instrument and Method for Spinal Compression and Distraction	8821502
10007US	Inter-Body Implant	8828082
26786-536/US	SYSTEMS AND METHODS FOR MANIPULATING AND/OR INSTALLING A PEDICLE SCREW	8834527
0127US	POLYAXIAL BONE SCREW WITH LATERAL CONNECTOR	8834540
26786-540US	RETRACTOR	8882661

PATENT

REEL: 057177 FRAME: 0698

26786-508/US	ADJUSTABLE OCCIPITAL PLATE	8900276
0148US	INSTRUMENT AND METHOD FOR SPINAL COMPRESSION AND DISTRACTION	8906034
0152US	Interspinous Process Device and Method	8906064
0146US	SYSTEMS FOR VERTEBRAL ADJUSTMENTS AND ROD REDUCTION	8911442
0149US	Surgical Screwdriver	8932303
ALSPN.011US/US	EXPANDABLE SPINAL SUPPORT DEVICE WITH ATTACHABLE MEMBERS AND METHODS OF USE	8936627
0122US	DISTAL LOADING RECEIVER FOR A POLYAXIAL BONE SCREW AND METHOD FOR IMPLANTATION T...	8974501
0105US/CIP	STAND-ALONE INTERBODY FIXATION SYSTEM	8979933
0123US	SCREW HEAD LOCKER APPARATUS AND METHODS OF USE	8986319
0103US/DIV/CON	APPARATUS FOR ANTERIOR INTERVERTEBRAL SPINAL FIXATION AND FUSION	9039770
8005US	Inter-Body Implantation System and Method	9044333
0135US	SCREW ASSEMBLY WITH DEFORMABLE BUSHING	9060812
26786-565001/US/DIV2	INSTRUMENT FOR COMPRESSION AND DISTRACTION	9060825
26786-538US	PLATING SYSTEMS FOR BONE FIXATION	9078718
0145US	APPARATUS AND METHOD FOR CONNECTING SURGICAL RODS	9107703
0138US2	STAND ALONE INTERBODY FIXATION SYSTEM	9107760
0143US	Instrument for Removal of Material from within a Body	9204896
0167USDIV	INTERBODY FUSION IMPLANT AND RELATED METHODS	9233008
0129US	BONE FIXATION SYSTEMS AND METHODS	9271770
0134US	EXPANDABLE INTERBODY SPACER	9308028
26786-565001/US/DIV3	INSTRUMENT FOR COMPRESSION AND DISTRACTION	9320550
0126US	SPINAL INSTRUMENTS WITH SET SCREW LOADING AND RETENTION APPARATUS AND METHODS OF ...	9402662
0170US	Interbody Fusion Implant And Related Methods	9402736
0156US	INSTRUMENT AND METHOD FOR RESTORING MOTION TO A POLYAXIAL SCREW	9408643
0103USDIV2	APPARATUS FOR ANTERIOR INTERVERTEBRAL SPINAL FIXATION AND FUSION	9463096
0163US	Spinal Deformity Correction Instruments and Methods	9468474
0150US	Instrument and Method for Reducing and Securing Spinal Rods	9526537
26786-538US/CON1	PLATING SYSTEMS FOR BONE FIXATION	9532819

PATENT

REEL: 057177 FRAME: 0699

26786-565001/US/CON1	SYSTEMS AND METHODS FOR SPINAL FIXATION	9539036
26786-565002/US/DIV2	ROD INSERTER AND METHODS OF USE	9545271
0153US	Spondylolisthesis Reduction System	9561062
0177US	Instrument for Implanting Implant Device	9572685
26786-565001/US/DIV1	METHODS FOR SPINAL FIXATION	9585702
0158US	Interbody Spacer and Plate Inserter and Methods of Use	9603611
0184US	SPACER WITH TEMPORARY FIXATION PLATE	9603718
0146USCON1	SYSTEMS FOR VERTEBRAL ADJUSTMENTS AND ROD REDUCTION	9622796
0135USDIV1	SCREW ASSEMBLY WITH DEFORMABLE BUSHING	9636147
0179US	SINGLE ACTION LOCKING PEDICLE SCREWDRIVER	9642654
0174US	Spinal Implants and Insertion Instruments	9642723
0166US	Uniplanar Screw Assembly and Methods of Use	9649134
0155US	Expandable Screw and Methods of Use	9681905
0175US	Soft Tissue Retractor	9693762
0159US	INSTRUMENT AND METHOD FOR IN SITU ROD ADJUSTMENT	9707018
0168US	Blade Attachment and Adjustment Mechanism for Tissue Retraction	9730683
SX0016.02/US	DISK PROSTHESIS FOR CERVICAL VERTEBRAE	RE40260
0134USCON1	EXPANDABLE INTERBODY SPACER	9788970
0184USDIV	SPACER WITH TEMPORARY FIXATION PLATE	9763805
26786-508USCON	ADJUSTABLE OCCIPITAL PLATE	9757162
574USDIV2	SPINOUS PROCESS DEVICE AND METHOD OF USE	9737344
0161US	SYSTEMS AND METHODS FOR SPINAL COMPRESSION, DISTRACTION, AND FIXATION	9795418
0157US	INSTRUMENT AND METHOD FOR PROVISIONALLY LOCKING A POLYAXIAL SCREW	9844400
0129USCIP	BONE FIXATION METHODS	9877756
0132US/CON1	SYSTEMS AND METHODS FOR CORRECTING SPINAL DEFORMITY	9888945
0173US	SPONDYLSTHESIS REDUCTION SYSTEM	9907583
26786-536US/CON1	SYSTEMS AND METHODS FOR MANIPULATING AND/OR INSTALLING PEDICAL SCREW	9913664

PATENT

REEL: 057177 FRAME: 0700

**Applications - US**

<u>Reference</u>	<u>Title</u>	<u>Appl No.</u>
0105US/CON1	STAND-ALONE INTERBODY FIXATION SYSTEM	13/666099
26786-565002DIV1CIP1	PERCUTANEOUS ROD INSERTER	13/786798
0138PCT/CON	STAND ALONE INTERBODY FIXATION SYSTEM	14/060424
26786-574USDIV2	SPINOUS PROCESS DEVICE AND METHOD OF USE	14/134478
0114USDIV1	INTERSPINOUS PROCESS SPACER APPARATUS AND METHODS OF USE	14/184967
0105US/CON1	Retractor	14/471878
0173US	Spondylsthesis Reduction System	14/539567
0136USCON1	FASTENER RETENTION SYSTEM FOR SPINAL PLATES	14/549965
0178US	PUNCH INSTRUMENT	14/673918
0145USCON1	APPARATUS AND METHOD FOR CONNECTING SURGICAL RODS	14/798749
0153USCON1	SPONDYLOLISTHESIS REDUCTION SYSTEM	14/860521
0180US	Osteotomy Instrument	14/877587
0182US	Polyaxial Bone Screw Bushing	14/883408
0167USCON1	Interbody Fusion Implant and Related Methods	14/962848
0183US	Implant Insertion Instrument	15/017130
0186US	Transverse link having spherical ball joint	15/065364
0187US	Radio transparent retractor system and method of using radio transparent retractor system	15/168859
0189US	Retractor and retractor blade	15/204558
156USCIP	Instrument and method for restoring motion to a polyaxial screw	15/205062
0185US	Implants and guides for inserting an implant	15/273847
0150USDIV	Instrument and method for reducing and securing spinal rods	15/276059
ACS-20702/53 0103US/DIV3	Apparatus and method for anterior intervertebral spinal fixation and fusion	15/289591
0193US	Hook inserter	15/291188
0194US	Systems and methods for securely assembling a spinal implant	15/296989
0192US	Pedicle screw with raised root	15/297860
2016-010US ACS-17102/53	INSTRUMENT CONFIGURED TO GENERATE AN IMPACT AND RETRACTING LOAD ON AN INSERTER	15/360054
26786-565001USDIV1	SYSTEMS AND METHODS FOR SPINAL FIXATION	15/366224
53ACSI8103VA	ROD INSERTER AND METHODS OF USE	15/378,626

53ACCS127041A	BONE FIXATION SYSTEMS AND METHODS	15/459,06 8
53ACCS15903VA	SYSTEMS FOR VERTEBRAL ADJUSTMENTS AND ROD REDUCTION	15/462,52 8
53ACCS149031A	EXPANDABLE SCREW AND METHODS OF USE	15/595,48 2
53ACCS14303VA	SYSTEMS AND METHODS FOR SPINAL COMPRESSION, DISTRACTION, AND FIXATION	15/619,11 1
53ACCS11403VA	SOFT TISSUE RETRACTOR	15/619,89 6
53ACCS17703VA	INSTRUMENT AND METHOD FOR IN SITU ROD ADJUSTMENT	15/626,452
ACS-16718/53	Surgical Dilator System with Internal Catch	62/422,667
ACS-16818/53	Surgical Dilator with Flattened Head	62/422,634
ACS-12580/53	Adjustable Hook	62/422,618
53ACCS20818MA	Insertor with Releasable Grippers	62/471,098
53ACCS21318MA	Intervertebral Cage with Porosity Gradient	62/471,128
53ACCS21202PA	Osteotomy Instrument	15/453,982
53ACCS127041A	BONE FIXATION SYSTEMS AND METHODS	15/459,068
53ACCS15903VA	SYSTEMS FOR VERTEBRAL ADJUSTMENTS AND ROD REDUCTION	15/462,528
53ACCS17402PA	INSERTER WITH IMPACT AND ROTATIONAL DRIVE ADVANCEMENT AND IMPLANT HOLDER WITH IMPLANT AUTO RELEASE	15/478,878
53ACCS23202PA	SURGICAL SCREW	15/706,555
53ACCS24218MA	Pedicle Screw Assembly with Mouth	62/574,299
53ACCS24018MA	Set Screw Assembly	62/574,392
53ACCS23518MA	PEDICLE SCREW WITH RATCHETING SET SCREW RETENTION	62/574,905
53ACCS23618MA	EXPANDABLE SURGICAL SCREW	62/574,946
53ACCS237021A	INSTRUMENT ASSEMBLY FOR USE WITH AN EXPANDABLE PEDICLE SCREW	15/789,461
53ACCS23818MA	Pedicle Screw Assembly	62/574,970
53ACCS24118MA	Pedicle Screw Assembly with Self-Locking Washer	62/579,951
53ACCS23918MA	Set Screw and Screw Body Assembly with Interfacing Ribbed Threads	62/579,933
53ACCS24518MA	Interbody Cage with Variable Porosity	62/611,474
53ACCS24818MA	Tower Assembly with Dynamic Mating Feature	62/611,407
53ACCS24918MA	Plate with Bend Zone	62/611,426
53ACCS25018MA	Surgical Screw with Expandable Zone	62/611,439

PATENT

REEL: 057177 FRAME: 0702



53ACCS24318MA	Surgical rod with variable porosity	62/614185
53ACCS24618MA	Interbody Cage with Weakening Region	62/628083
53ACCS24718MA	Interbody with Variable Porosity Forming a Unique Mark	62/627931
53ACCS24418MA	Plate Assembly with Variable Porosity	62/628120
53ACCS21302PA	INTERVERTERBRAL CAGE WITH POROSITY GRADIENT	To Be Filed

Alphatec Spine, Inc. owns all patents listed above.

**Foreign**

<u>Reference</u>	<u>Title</u>	<u>Status</u>	<u>Country</u>	<u>Grant Number</u>
0114JP	CLAMPING INTERSPINOUS SPACER APPARATUS AND METHODS OF USE	Grant.	JP	5859009
0127PCT/JP	POLYAXIAL BONE SCREW WITH LATERAL CONNECTOR	Grant.	JP	5671146
0134PCT/JP	EXPANDABLE INTERBODY SPACER	Grant.	JP	5916838
0138PCT/JP	STAND ALONE INTERBODY FIXATION SYSTEM	Grant.	JP	5994191
26786-504EP	ARTIFICIAL INTERVERTEBRAL DISC ASSEMBLY	Grant.	JP	4156835
26786-504JP	ARTIFICIAL INTERVERTEBRAL DISC ASSEMBLY	Grant.	JP	4783383
26786-508JP	ADJUSTABLE OCCIPITAL PLATE	Grant.	JP	4861422
26786-536JP	SYSTEMS AND METHODS FOR MANIPULATING AND/OR INSTALLING A PEDICLE SCREW	Grant.	JP	5210305
26786-538PCT/GB	PLATING SYSTEMS FOR BONE FIXATION	Grant.	JP	4189151
26786-538PCT/JP/DIV	PLATING SYSTEMS FOR BONE FIXATION	Grant.	JP	5976599
26786-565001/WO/JP	SYSTEMS AND METHODS FOR SPINAL FIXATION	Grant.	JP	4027991
26786-565001/WO/JP	SYSTEMS AND METHODS FOR SPINAL FIXATION	Grant.	JP	4027991
26786-565001/WO/JP	SYSTEMS AND METHODS FOR SPINAL FIXATION	Grant.	JP	5455129
26786-5668N01JP	CURVILINEAR SPINAL ACCESS METHOD AND DEVICE	Grant.	JP	5271281
26786-570PCT/JP/DIV	METHOD AND DEVICE FOR DEPLOYING AN EXPANDABLE IMPLANT INTO A VERTEBRAL BODY	Grant.	JP	5965432
26786-573/JP	CURVILINEAR SPINAL ACCESS METHOD AND DEVICE	Grant.	JP	5543967
26786-581N01JP	PROCESSES AND SYSTEMS FOR LOADING MEDICAL IMPLANTS WITH SIMULATIVE GROWTH AGENTS	Grant.	JP	5356528
26786-581PCT/JP/DIV	PROCESSES AND SYSTEMS FOR LOADING MEDICAL IMPLANTS WITH SIMULATIVE GROWTH AGENTS	Grant.	JP	5955818
8005PCT/JP	Inter-Body Implantation System and Method	Grant.	JP	5600293
9006PCT/JP	Improved Spinal Implantation System and Method	Grant.	JP	5643305
ALSPN.011PCT/JP	EXPANDABLE SPINAL SUPPORT DEVICE WITH ATTACHABLE MEMBERS AND METHODS OF USE	Grant.	JP	5705210
SG 10172/GB	ANTI-SLIP DEVICE FOR AN ORTHOPEDIC IMPLANT	Grant.	JP	5328817

**PATENT**

**REEL: 057177 FRAME: 0704**

SG 10300/JP	DEVICE FOR LOCKING A LINK ROD IN A BONE ANCHORING ELEMENT OF A SPINAL IMPLANT	Grant.	JP	4493599
SG 10316/JP	INTERSOMATIC CAGE FOR LUMBAR FUSION BY TRANSFORAMINAL ACCESS AND CAGE-HOLDER DEV...	Grant.	JP	4443570
SX0002JP	POSTERIOR VERTEBRAL JOINT PROSTHESIS	Grant.	JP	4296091
SX0027/JP	DEVICE FOR PREVENTING THE REMOVAL OF AN ANCHORING SCREW FOR AN OSTEOSYNTHETIC ELEMENT	Grant.	JP	4532483
0129EP/GB	DEVICE FOR DEPLOYING AN EXPANDABLE IMPLANT INTO A VERTEBRAL BODY	Grant.	GB	2328498
0148US	INSTRUMENT AND METHOD FOR SPINAL COMPRESSION AND DISTRACTION	Grant.	GB	2451404
0153US	Spondylolisthesis Reduction System	Grant.	GB	2451403
26786-504/UK	ARTIFICIAL INTERVERTEBRAL DISC ASSEMBLY	Grant.	GB	2032054
26786- 538PCT/GB	PLATING SYSTEMS FOR BONE FIXATION	Grant.	GB	2043536
26786- 540PCT/EP/GB	RETRACTOR	Grant.	GB	1194087
26786- 540PCT/EP/GB	RETRACTOR	Grant.	GB	2081501
26786- 565002/WO/EP- GB	Percutaneous rod inserter	Grant.	GB	2367491
26786-568N01EP	CURVILINEAR SPINAL ACCESS METHOD AND DEVICE	Grant.	GB	2114257
26786-572N01EP	A BONE PLATE ASSEMBLY	Grant.	GB	2341855
26786-573N01GB	Curvilinear spinal access method and device	Grant.	GB	2315550
26786- 574N01/GB	Spinous process device	Grant.	GB	2430995
26786-581D01GB	PROCESSES AND SYSTEMS FOR LOADING MEDICAL IMPLANTS WITH SIMULATIVE GROWTH AGENTS	Grant.	GB	2659862
26786-581N01 GB	PROCESSES AND SYSTEMS FOR LOADING MEDICAL IMPLANTS WITH SIMULATIVE GROWTH AGENTS	Grant.	GB	2365791
STTM-N- Z100.00.EP/JP	ATTACHMENT DEVICE AND METHODS OF USE, PREPARATION AND TESTING	Grant.	GB	2228015
SX0018/GB	STABILISED INTERBODY FUSION SYSTEM FOR VERTEBRAE	Grant.	GB	1372541
SX0019/GB	Bone anchoring device with spherical articulation	Grant.	GB	1524945
SX0020/GB	Connection system between a spinal rod and a transverse bar	Grant.	GB	1480569

PATENT

REEL: 057177 FRAME: 0705

SX0024/GB	Vertebral replacement device	Grant.	GB	1589906
SX0027/GB	Device for preventing the removal of an anchoring screw for an osteosynthetic element	Grant.	GB	1633261
SX0030/GB	INTERVERTEBRAL DISCAL PROSTHESIS	Grant.	GB	1706076
0133PCT/JP	MATERIAL DELIVERY APPARATUS FOR A BONE SCREW	Pend.	JAPAN	2013-552612
0148PCT-JP	INSTRUMENT AND METHOD FOR SPINAL COMPRESSION AND DISTRACTION	Pend.	JAPAN	2015-501720
26786-508/US	ADJUSTABLE OCCIPITAL PLATE	Pend.	JAPAN	2009-518312
26786-509.001JP	RETRACTOR AND METHODS OF USE	Pend.	JAPAN	2008-534759
26786-536JP/JP	SYSTEMS AND METHODS FOR MANIPULATING AND/OR INSTALLING A PEDICLE SCREW	Pend.	JAPAN	2013-032119
26786-540JP	RETRACTOR	Pend.	JAPAN	2009-529268
26786-565001/WO/EP	SYSTEMS AND METHODS FOR SPINAL FIXATION	Pend.	JAPAN	2001-566471
8005PCT/JP/DIV	Inter-Body Implantation System and Method	Pend.	JAPAN	2014-121274
SG 10232/JP	CONNECTOR FOR VERTEBRAL ANCHORING SYSTEM	Pend.	JAPAN	2003-546768
0103PCT/EP	APPARATUS FOR ANTERIOR INTERVERTEBRAL SPINAL FIXATION AND FUSION	Pend.	EUROPE	06845994-0
0114PCT/EP	CLAMPING INTERSPINOUS SPACER APPARATUS AND METHODS OF USE	Grant.	EUROPE	2618756
0127PCT/EP	POLYAXIAL BONE SCREW WITH LATERAL CONNECTOR	Pend.	EUROPE	11835155-0
0131PCT/EU	SEMI-RIGID SCREW ASSEMBLY	Pend.	EUROPE	12741982-8
0134PCT/EP	EXPANDABLE INTERBODY SPACER	Pend.	EUROPE	12760208-4
0137PCT/EP	SYSTEMS AND METHODS FOR LINKING IMPLANTS AND REDUCING DEFORMITIES	Pend.	EUROPE	12839971-4
0148PCT/EP	INSTRUMENT AND METHOD FOR SPINAL COMPRESSION AND DISTRACTION	Pend.	EUROPE	13778840-2
0150PCT/EP	Instrument and Method for Reducing and Securing Spinal Rods	Pend.	EUROPE	13826440-3
0152PCT/EP	Interspinoous Process Device and Method	Pend.	EUROPE	13781013-1
0155PCT/EP	Expanding Screw Apparatus and Methods of Use	Pend.	EUROPE	13844127-4
0163PCT/EP	SPINAL DEFORMITY CORRECTION INSTRUMENTS AND METHODS	Pend.	EUROPE	14756587-3
0166EP	Uniplanar Screw Assembly and Methods of Use	Pend.	EUROPE	14782756-2
0184	SPACER WITH TEMPORARY FIXATION PLATE	Pend.	EUROPE	16156169-1
26786-519/EP	VARIABLE ANGLE SPINAL SCREW ASSEMBLY	Pend.	EUROPE	04734306-6

PATENT

REEL: 057177 FRAME: 0706

26786-565002/EP/DIV1	SYSTEMS FOR SPINAL FIXATION	Pend.	EUROPE	14155736-3
26786-565002/EP/DIV2	SYSTEMS FOR SPINAL FIXATION	Pend.	EUROPE	14155836-1
26786-565002/EP/DIV3	SYSTEMS FOR SPINAL FIXATION	Pend.	EUROPE	14156115-9
ALSPN.011PCT/EP	EXPANDABLE SPINAL SUPPORT DEVICE WITH ATTACHABLE MEMBERS AND METHODS OF USE	Pend.	EUROPE	10762319-1
53ACSI17452WO	INSERTER WITH IMPACT AND ROTATIONAL DRIVE ADVANCEMENT AND IMPLANT HOLDER WITH IMPLANT AUTO RELEASE	Pend.	WO	PCT/US2017/026045
ACS-12352/53	IMPLANTS AND GUIDES FOR INSERTING AN IMPLANT	Pend.		PCT/US2016/053237
53ACSI12336GB	IMPLANTS AND GUIDES FOR INSERTING AN IMPLANT	Pend.	GB	1800426.7
53ACSI12343JP	IMPLANTS AND GUIDES FOR INSERTING AN IMPLANT	Pend.	JAPAN	Not Yet Filed
53ACSI12436GB	SYSTEMS AND METHODS FOR SECURELY ASSEMBLING A SPINAL IMPLANT	Pend.	GB	Not Yet Filed
53ACSI12443JP	SYSTEMS AND METHODS FOR SECURELY ASSEMBLING A SPINAL IMPLANT	Pend.	JAPAN	Not Yet Filed
53ACSI14936GB	EXPANDABLE SCREW AND METHODS OF USE	Pend.	GB	Not Yet Filed
53ACSI14943JP	EXPANDABLE SCREW AND METHODS OF USE	Pend.	JAPAN	Not Yet Filed
53ACSI21236GB	OSTEOTOMY INSTRUMENT	Pend.	GB	Not Yet Filed
53ACSI21243JP	OSTEOTOMY INSTRUMENT	Pend.	JAPAN	Not Yet Filed
53ACSI21336GB	INTERVERTEBRAL CAGE WITH POROSITY GRADIENT	Pend.	GB	Not Yet Filed
53ACSI21343JP	INTERVERTEBRAL CAGE WITH POROSITY GRADIENT	Pend.	JAPAN	Not Yet Filed



Alphatec Spine, Inc. owns all patents listed above.

**Alphatec Spine, Inc. also owns the following intellectual property listed below.**

<b>Invention Title</b>	<b>Country</b>	<b>Serial No.</b>	<b>Patent No.</b>
TOP TIGHTENING BONE FIXATION APPARATUS	US	08695318	6030388
TOME APPARATUS FOR IMPLANTING SPINAL FUSION DEVICE	US	09408762	6241733
ORTHOPEDIC IMPLANTS WITH FLEXIBLE SCREWS	US	13355875	8979930
ORTHOPEDIC IMPLANTS WITH FLEXIBLE SCREWS	US	14659214	9597199
VARIABLE ANGLE SPINAL SCREW ASSEMBLY	US	14163797	-
OSTEOTOMY INSTRUMENT	US	15453982	-
INSERTER WITH IMPACT AND ROTATIONAL DRIVE ADVANCEMENT AND IMPLANT HOLDER WITH IMPLANT AUTO RELEASE	US	15478878	-
SPONDYLSTHESIS REDUCTION SYSTEM	US	15875612	-
INTERVERTEBRAL CAGE WITH POROSITY GRADIENT	US	15920898	-

**INTELLECTUAL PROPERTY**

SafeOp Surgical, Inc. owns all intellectual property listed on this schedule.

<b>Trademark</b>	<b>No.</b>	<b>Jurisdiction of Registration</b>	<b>Filing Date/ Expiration Date</b>
EPAD	15909799	European Union	
SAFEOP SURGICAL	15909815	European Union	
	15909849	European Union	
EPAD	87009963	United States	
SAFEOP SURGICAL	87009929	United States	
	87009973	United States	

<b>Patent Docket No.</b>	<b>Type</b>	<b>No.</b>	<b>Status</b>	<b>Jurisdiction of Registration</b>	<b>Filing Date/ Expiration Date</b>
-0201	Non-Provisional Priority to -0200	12/620,384	Issued	United States	
-0202	Non-Provisional DIV of -0201	13/364,444	Issued	United States	
-0203	Non-Provisional DIV of -0201	14/968,544	Pending	United States	
-0206	National Phase of -0205	AU 2010259190	Issued	AUS	
-0208	National Phase of -0205	CA 2764295	Pending	Canada	
-0209	National Phase of -0205	CN 201080025776.9	Issued	China	
-0210	National Phase of -0205	EP 10786543.8	Pending	European Union	
-0211	National Phase of -0205	JP 2012-514965	Issued	Japan	
-0251	Non-Provisional Priority to -0250	13/874,867	Pending	United States	
-0256	National Phase of -0255	AU 2013256343	Issued	AUS	
-0258	National Phase of -0255	2,874,743	Pending	Canada	
-0259	National Phase of -0255	CN 201380035512.5	Issued	China	
-0260	National Phase of -0255	EP 13784125.0	Pending	European Union	

Patent Docket No.	Type	No.	Status	Jurisdiction of Registration	Filing Date/ Expiration Date
-0261	National Phase of -0255	JP 2015-510431	Pending	Japan	
	Registration of -0255	15108835.5	Pending	Hong Kong	
	Registration of -0255	15108912.1	Pending	Hong Kong	
-0304	National Phase of -0310	15/025,259	Pending	United States	
-0313	National Phase of -0310	EP 14847273.1	Pending	European Union	
-0315	National Phase of -0310	JP 2016-517301	Pending	Japan	
-0318	National Phase of -0310	CN 2014863801	Pending	China	
-0414	National Phase of -0410	15/034,798	Pending	United States	
-0411	National Phase of -0410	CN 2014871956	Pending	China	
-0412	National Phase of -0410	EP 14861025.6	Pending	European Union	
-0413	National Phase of -0410	JP 2016-528159	Pending	Japan	
-0502	National Phase of -0501	15/529,928	Pending	United States	
-0511	National Phase of -0501	CN 201580063512.	Pending	China	
-0512	National Phase of -0501	EP 15862769.5	Pending	European Union	
-0513	National Phase of -0501	JP 2016-528159	Pending	Japan	
	Registration	HK 17111506.5	Pending	Hong Kong	
-0610/US	National Phase of -0600	15/569,367	Pending	United States	
-0611	National Phase of -0600	201680024474.7	Pending	China	
-0612	National Phase of -0600	EP 16789949.1	Pending	European Union	
-0613	National Phase of -0600	2017-556209	Pending	Japan	
-0701	Non-Provisional Priority to -0700	15/710,749	Pending	United States	
	International Application Priority to - 0800	PCT/US17/61410	Pending	PCT	
-0850	Provisional	62/475,097	Pending	United States	
-0900	Provisional	62/521,268	Pending	United States	
	Provisional	62/592,275	Pending	United States	