PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3988128

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the INADVERTENT CONVEYANCE OF SECURITY INTEREST ON APPLICATION. NO. 13252427 previously recorded on Reel 036515 Frame 0808. Assignor(s) hereby confirms the CONVEYANCE TO MORGAN PACKARD LORIO, M.D. 6/8/2012 REEL 028388 FRAME 0150 SHOULD REMAIN AS RECORDED.

CONVEYING PARTY DATA

Name	Execution Date
ALPHATEC HOLDINGS, INC; ALPHATEC SPINE, INC; ALPHATEC INTERNATIONAL LLC; ALPHATEC PACIFIC, INC.	07/10/2015

RECEIVING PARTY DATA

Name:	MIDCAP FINANCIAL LLC
Street Address: 7255 WOODMONT AVENUE, SUITE 200	
City:	BETHESDA
State/Country:	MARYLAND
Postal Code:	20814

PROPERTY NUMBERS Total:	1	
Property Type	Number	
Application Number:	13252427	
CORRESPONDENCE DATA		
Fax Number:	(703)610-6200	
	to the e-mail address first; if that is u ed; if that is unsuccessful, it will be s	
Phone:	7036106100	
Email:	boxip@hoganlovells.com	
Correspondent Name:	VALERIE BRENNAN, HOGAN LOVE	LLS US LLP
Address Line 1:	7930 JONES BRANCH DRIVE, 9TH	FLOOR
Address Line 2:	ATTN; BOX INTELLECTUAL PROPE	RTY
Address Line 4:	MCLEAN, VIRGINIA 22102	
NAME OF SUBMITTER:	VALERIE BRENNAN	
SIGNATURE:	/vb/	
DATE SIGNED:	08/02/2016	
Total Attachments: 32		
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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYP	PE:	NEW ASSIGNMENT		
ATURE OF CONVEYANCE: SECURITY INTEREST				
CONVEYING PAR	RTY DATA			
		Name	Execution Date	
		ALPHATEC SPINE, INC; ALPHATEC AATEC PACIFIC, INC.	07/10/2015	
RECEIVING PAR	TY DATA			
NT				
Name: Street Address:		FINANCIAL LLC		
	BETHESD	DDMONT AVENUE, SUITE 200		
City: State/Country:	MARYLA			
Postal Code:	20814			
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Application Number:	14242270
Application Number:	14734996
Application Number:	14058144
Application Number:	14454005
Application Number:	13545174
Application Number:	13920483
Application Number:	14056573
Application Number:	14134478
Application Number:	13060424
Application Number:	13835938
Application Number:	12616245
Application Number:	12725401
Application Number:	12834855
Application Number:	13488167
Application Number:	13478564
Application Number:	13864012
Application Number:	13867811
Application Number:	13335382
Application Number:	13507857
Application Number:	13777582
Application Number:	13461972
Application Number:	12567691
Application Number:	13569312
Application Number:	13252427
Application Number:	13957218

CORRESPONDENCE DATA

Fax Number:	(703)610-720	0				
Phone:	703-610-6100					
Email:	boxip@hogar					
	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.					
Correspondent Name:	VALERIE BI	RENNAN AT HOGAN LOVELLS US LLP				
Address Line 1:	7930 JONES	BRANCH DRIVE, 9TH FLOOR				
Address Line 2:	BOX INTELI	LECTUAL PROPERTY				
Address Line 4:	MCLEAN, V	/IRGINIA 22102				
NAME OF SUBMITT	ER:	VALERIE BRENNAN				
Signature:		/vb/				
Date:		09/01/2015				
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RECEIPT INFORMATION

 EPAS ID:
 PAT3507785

 Receipt Date:
 09/01/2015

SECOND AMENDMENT TO AMENDED AND RESTATED CREDIT, SECURITY AND GUARANTY AGREEMENT

SECOND AMENDMENT TO AMENDED AND RESTATED CREDIT, SECURITY AND GUARANTY AGREEMENT (this "Agreement") is made as of this 10th day of July, 2015, by and among ALPHATEC HOLDINGS, INC., a Delaware corporation ("Alphatec Holdings"), ALPHATEC SPINE, INC., a California corporation ("Alphatec Spine"), ALPHATEC INTERNATIONAL LLC, a Delaware limited liability company ("Alphatec International"), and ALPHATEC PACIFIC, INC. (also known as Kabushiki-Kaisha Alphatec Pacific), a Japanese company ("Alphatec Pacific" and together with Alphatec Holdings, Alphatec Spine, and Alphatec International, each being referred to herein individually as a "Borrower", and collectively as "Borrowers"), and MIDCAP FUNDING IV TRUST (formerly known as MidCap Funding IV, LLC, as Agent for Lenders, "Agent"), and MIDCAP FUNDING IV TRUST, individually, as a Lender, and the other financial institutions or other entities from time to time parties to the Credit Agreement referenced below, each as a Lender.

RECITALS

A. Agent, Lenders, and Borrowers have entered into that certain Amended and Restated Credit, Security and Guaranty Agreement, dated as of August 30, 2013 as amended by the First Amendment to Credit, Security and Guaranty Agreement, dated as of March 17, 2014 (the "Original Credit Agreement" and as the same is amended hereby and as it may be further amended, modified, supplemented and restated from time to time, the "Credit Agreement"), pursuant to which the Lenders have agreed to make certain advances of money and to extend certain financial accommodations to Borrowers and certain of its Affiliates in the amounts and manner set forth in the Credit Agreement.

B. Borrowers have requested and Agent and Lenders have agreed, among other things, to increase the Term Loan Commitment from \$33,000,000 to \$38,000,000 subject to and in accordance with the terms and conditions set forth in this Agreement.

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing, the terms and conditions set forth in this Agreement, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Agent, Lenders and Borrowers hereby agree as follows:

1. <u>Recitals</u>. This Agreement shall constitute a Financing Document and the Recitals and each reference to the Credit Agreement in the Original Credit Agreement, unless otherwise expressly noted, will be deemed to reference the Credit Agreement as amended hereby. The Recitals set forth above shall be construed as part of this Agreement as if set forth fully in the body of this Agreement and capitalized terms used but not otherwise defined herein shall have the meanings ascribed to them in the Original Credit Agreement (including those capitalize terms used in the Recitals hereto).

2. <u>Amendments to Original Credit Agreement</u>. Subject to the terms and conditions of this Agreement, including, without limitation, the conditions to effectiveness set forth in Section 5 below, the Original Credit Agreement is hereby amended as follows:

(a) The following definitions are hereby added to Article 1 of the Original Credit Agreement in their respective alphabetic order:

"Second Amendment Effective Date" means the effective date of that certain Second Amendment to Amended and Restated Credit, Security and Guaranty Agreement, dated as of July 10, 2015, among Borrowers, Agent and Lenders.

"Second Amendment Fee Letter" means that certain fee letter, dated as of the Second Amendment Effective Date, from Agent to Alphatec Holdings and agreed and accepted by Borrowers.

(b) The definition of "Fee Letter" appearing in Section 1.1 of the Original Credit Agreement is hereby amended by replacing the clause "including the Amended and Restated Fee Letter, dated as of August 30, 2013, and the First Amendment Fee Letter" with the following:

"including the Amended and Restated Fee Letter, dated as of August 30, 2013, the First Amendment Fee Letter and the Second Amendment Fee Letter"

(c) The definition of "Permitted Investments" appearing in Section 1.1 of the Original Credit Agreement is hereby amended by inserting a new clause (j) therein as set forth below and renaming the existing clause (j) therein as clause "(k)":

"(j) Investments consisting of accounts receivables from Affiliates resulting from the sale of inventory to such Affiliates in the Ordinary Couse of Business, so long as such sales are otherwise permitted pursuant to clause (y) of Section 5.8."

(d) The definition of "Term Loan Commitment Amount" appearing in Section 1.1 of the Original Credit Agreement is hereby amended by replacing it in its entirety with the following:

"Term Loan Commitment Amount" means, (a) as to any Lender that is a Lender on the Closing Date, the dollar amount set forth opposite such Lender's name on the Commitment Annex under the column "Term Loan Commitment Amount" as of the Closing Date, as such amount may be adjusted from time to time by any amounts assigned (with respect to such Lender's portion of Term Loans outstanding and its commitment to make advances in respect of the Term Loan) pursuant to the terms of any and all effective assignment agreements to which such Lender is a party, (b) as to any Lender that is a Lender on the Second Amendment Effective Date, the dollar amount set forth opposite such Lender's name on the Commitment Annex under the column "Term Loan Commitment Amount" as of the Second Amendment Effective Date, as such amount may be adjusted from time to time by any amounts assigned (with respect to such Lender's portion of Term Loans outstanding and its commitment to make advances in respect of the Term Loan) pursuant to the terms of any and all effective assignment agreements to which such Lender is a party and (c) as to any Lender that becomes a Lender after the Second Amendment Effective Date, the amount of the "Term Loan Commitment Amount(s)" of other Lender(s) assigned to such new Lender pursuant to the terms of the effective assignment agreement(s) pursuant to which such new Lender shall become a Lender, as such amount may be adjusted from time to time by any amounts assigned (with respect to such Lender's portion of Term Loans outstanding and its commitment to make advances in respect of the Term Loan) pursuant to

the terms of any and all effective assignment agreements to which such Lender is a party.

(e) Section 2.1(a)(i) of the Original Credit Agreement is hereby amended by replacing it in its entirety with the following:

(2) <u>Term Loan Amounts</u>. On the terms and subject to the conditions set forth herein, the Lenders severally hereby agree to make to Borrowers a term loan in an aggregate original principal amount equal to the Term Loan Commitment ("Term Loan"). Each Lender's obligation to fund the Term Loan shall be limited to such Lender's Term Loan Commitment Percentage, and no Lender shall have any obligation to fund any portion of any Term Loan required to be funded by any other Lender, but not so funded. No Borrower shall have any right to reborrow any portion of the Term Loan that is repaid or prepaid from time to time. The Term Loan shall be available in three (3) tranches. The first tranche in an amount equal to Twenty-Eight Million Dollars (\$28,000,000.00) was advanced on the Closing Date. The second tranche in an amount equal to Five Million Dollars (\$5,000,000.00) was advanced in a single advance on April 1, 2014. The third tranche in an amount equal to Five Million Dollars (\$5,000,000.00) will be advanced in a single advance on the Second Amendment Effective Date.

(f) Annex A (Commitment Annex) to the Original Credit Agreement is hereby replaced in its entirety with a new Annex A attached hereto as Exhibit A.

(g) Schedule 2.1(Amortization) to the Original Credit Agreement is hereby replaced in its entirety with a new Schedule 2.1 attached hereto as Exhibit B.

(h) Schedules 3.17, 3.19, 5.7, 5.8, 5.14 and 9.2 to the Original Credit Agreement are hereby replaced in their entirety, and Schedules 3.6, 4.4 and 8.2(h) are hereby supplemented with the new corresponding schedules attached hereto as Exhibit C.

Representations and Warranties; Reaffirmation of Security Interest; Updated 3. Schedules. Each Borrower hereby (a) confirms that all of the representations and warranties set forth in the Credit Agreement are true and correct in all material respects (without duplication of any materiality qualifier in the text of such representation or warranty) with respect to such Borrower as of the date hereof except to the extent that any such representation or warranty relates to a specific date in which case such representation or warranty shall be true and correct as of such earlier date, and (b) covenants to perform its respective obligations under the Credit Agreement. Each Borrower further represents and warrants that the organizational documents of such Borrower delivered to Agent on or prior to March 17, 2014 in connection with the Original Credit Agreement remain true, accurate and complete and have not been amended, supplemented or restated and are, and continue to be, in full force and effect. Each Borrower confirms and agrees that all security interests and Liens granted to Agent continue in full force and effect, and all Collateral remains free and clear of any Liens, other than those granted to Agent and Permitted Liens. Nothing herein is intended to impair or limit the validity, priority or extent of Agent's security interests in and Liens on the Collateral. Each Borrower acknowledges and agrees that the Credit Agreement, the other Financing Documents and this Agreement constitute the legal, valid and binding obligation of each Borrower, and are enforceable against each Borrower in accordance with its terms, except as the enforceability thereof may be limited by bankruptcy, insolvency or other similar laws relating to the enforcement of creditors' rights generally and by general equitable principles.

4. <u>Costs and Fees</u>. Borrowers shall be responsible for the payment of all reasonable and documented out-of-pocket costs and fees of Agent's counsel incurred in connection with the preparation of this Agreement and any related documents. If Agent or any Lender uses in-house counsel for any of these purposes, Borrowers further agree that the Obligations include reasonable charges for such work commensurate with the fees that would otherwise be charged by outside legal counsel selected by Agent or such Lender for the work performed.

5. <u>Conditions to Effectiveness</u>. This Agreement shall become effective as of the date on which each of the following conditions has been satisfied, as determined by Agent in its sole discretion:

(a) Borrowers shall have delivered to Agent this Agreement duly executed by an authorized officer of each Borrower;

(b) Borrowers shall have delivered to Agent that certain fee letter, dated as of or before the date hereof, from Agent to Alphatec Holdings and agreed and accepted by Borrowers;

(c) Borrowers shall have delivered to Agent duly executed original Notes in favor of each Lender with a face amount equal to such Lender's Term Loan Commitment under the Term Loan and, if applicable, any replacement Notes under the Revolving Loan;

(d) Borrowers shall have timely delivered to Agent a duly executed disbursement letter;

(e) Borrowers shall have delivered to Agent duly executed original signatures to the other Financing Documents to which any Credit Party is a party reasonably requested by Agent;

(f) Agent shall have received all consents required from Deerfield, pursuant to the Deerfield Intercreditor Agreement or otherwise, which are necessary for the execution and delivery of this Agreement and the increase in the Term Loan Commitment Amount, which consents shall be in writing and duly executed by each party thereto;

(g) all representations and warranties of Borrowers contained herein shall be true and correct in all material respects (without duplication of any materiality qualifier in the text of such representation or warranty) as of the date hereof (and such parties' delivery of their respective signatures hereto shall be deemed to be its certification thereof), except to the extent such representations and warranties expressly relate to a specific date, in which case such representations and warranties were true and correct in all material respects (without duplication of any materiality qualifier in the text of such representation or warranty) on and as of such date;

(h) after giving effect to the agreements set forth herein, no Default or Event of Default shall exist under any of the Financing Documents (and such parties' delivery of their respective signatures hereto shall be deemed to be its certification thereof);

(i) Agent shall have received UCC searches (the results of which are reasonably acceptable to Agent) and, if necessary, filed copies of UCC financing statements, collateral assignments, and termination statements, with respect to the Collateral, as Agent shall request;

(j) Agent shall have received a certificate of the secretary of each Borrower attaching the Organizational Documents of such Borrower (if modified since the last delivery thereof to the Agent), good standing certificates of each US Borrower certified by the Secretary of State of the state(s) of organization of such Credit Party (as applicable) as of a date no earlier than ten (10) days prior to the Closing Date, and duly executed copies of the completed borrowing resolutions for Borrowers;

(k) Borrower shall have delivered such other documents, information, certificates, records, permits, and filings as the Agent may reasonably request; and

(l) Agent shall have received from Borrowers all of the fees owing pursuant to this

Agreement, including without limitation, Agent's reasonable out-of-pocket legal fees and expenses pursuant to Section 4 of this Agreement and other fees due and owing under the Fee Letter.

6. Release. In consideration of the agreements of Agent and Required Lenders contained herein and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, each Borrower, voluntarily, knowingly, unconditionally and irrevocably, with specific and express intent, for and on behalf of itself and all of its respective parents, subsidiaries, affiliates, members, managers, predecessors, successors, and assigns, and each of their respective current and former directors, officers, shareholders, agents, and employees, and each of their respective predecessors, successors, heirs, and assigns (individually and collectively, the "Releasing Parties") does hereby fully and completely release, acquit and forever discharge each of Agent, Lenders, and each their respective parents, subsidiaries, affiliates, members, managers, shareholders, directors, officers and employees, and each of their respective predecessors, successors, heirs, and assigns (individually and collectively, the "Released Parties"), of and from any and all actions, causes of action, suits, debts, disputes, damages, claims, obligations, liabilities, costs, expenses and demands of any kind whatsoever, at law or in equity, whether matured or unmatured, liquidated or unliquidated, vested or contingent, choate or inchoate, known or unknown that the Releasing Parties (or any of them) has against the Released Parties or any of them (whether directly or indirectly), based in whole or in part on facts, whether or not now known, existing on or before the Effective Date, that relate to, arise out of or otherwise are in connection with: (i) any or all of the Financing Documents or transactions contemplated thereby or any actions or omissions in connection therewith or (ii) any aspect of the dealings or relationships between or among any or all of the Borrowers, on the one hand, and any or all of the Released Parties, on the other hand, relating to any or all of the documents, transactions, actions or omissions referenced in clause (i) hereof. Each Borrower acknowledges that the foregoing release is a material inducement to Agent's and Required Lender's decision to enter into this Agreement and agree to the modifications contemplated hereunder, and has been relied upon by Agent and Required Lenders in connection therewith.

7. <u>No Waiver or Novation</u>. The execution, delivery and effectiveness of this Agreement shall not, except as expressly provided in this Agreement, operate as a waiver of any right, power or remedy of Agent, nor constitute a waiver of any provision of the Credit Agreement, the Financing Documents or any other documents, instruments and agreements executed or delivered in connection with any of the foregoing. Nothing herein is intended or shall be construed as a waiver of any existing Defaults or Events of Default under the Credit Agreement or other Financing Documents or any of Agent's rights and remedies in respect of such Defaults or Events of Default. This Agreement (together with any other document executed in connection herewith) is not intended to be, nor shall it be construed as, a novation of the Credit Agreement.

8. <u>Affirmation</u>. Except as specifically amended pursuant to the terms hereof, each Borrower hereby acknowledges and agrees that the Credit Agreement and all other Financing Documents (and all covenants, terms, conditions and agreements therein) shall remain in full force and effect, and are hereby ratified and confirmed in all respects by Borrowers. Each Borrower covenants and agrees to comply with all of the terms, covenants and conditions of the Credit Agreement and the Financing Documents, notwithstanding any prior course of conduct, waivers, releases or other actions or inactions on Agent's or any Lender's part which might otherwise constitute or be construed as a waiver of or amendment to such terms, covenants and conditions.

9. <u>Confidentiality</u>. No Borrower will disclose the contents of this Agreement, the Credit Agreement or any of the other Financing Documents to any third party (including, without limitation, any financial institution or intermediary) without Agent's prior written consent, other than to Borrowers' officers and advisors on a need-to-know basis or as otherwise may be required by Law, including to any court or regulatory agency having jurisdiction over such Borrower. Each Borrower agrees to inform all such persons who receive information concerning this Agreement, the Credit Agreement and the other

Financing Documents that such information is confidential and may not be disclosed to any other person except as may be required by Law, including to any court or regulatory agency having jurisdiction over such Borrower.

10. Miscellaneous.

(a) <u>Reference to the Effect on the Credit Agreement</u>. Upon the effectiveness of this Agreement, each reference in the Credit Agreement to "this Agreement," "hereunder," "hereof," "herein," or words of similar import shall mean and be a reference to the Credit Agreement, as amended by this Agreement. Except as specifically amended above, the Credit Agreement, and all other Financing Documents (and all covenants, terms, conditions and agreements therein), shall remain in full force and effect, and are hereby ratified and confirmed in all respects by Borrowers.

(b) <u>Incorporation of Credit Agreement Provisions</u>. The provisions contained in <u>Section 11.6</u> (Indemnification), <u>Section 12.8</u> (Governing Law; Submission to Jurisdiction) and <u>Section 12.9</u> (Waiver of Jury Trial) of the Credit Agreement are incorporated herein by reference to the same extent as if reproduced herein in their entirety.

(c) <u>Headings</u>. Section headings in this Agreement are included for convenience of reference only and shall not constitute a part of this Agreement for any other purpose.

(d) <u>Counterparts</u>. This Agreement may be signed in any number of counterparts, each of which shall be deemed an original and all of which when taken together shall constitute one and the same instrument. Delivery of an executed counterpart of this Agreement by facsimile or by electronic mail delivery of an electronic version (e.g., .pdf or .tif file) of an executed signature page shall be effective as delivery of an original executed counterpart hereof and shall bind the parties hereto.

(e) <u>Entire Agreement</u>. This Agreement constitutes the entire agreement and understanding among the parties hereto and supersedes any and all prior agreements and understandings, oral or written, relating to the subject matter hereof.

(f) <u>Severability</u>. In case any provision of or obligation under this Agreement shall be invalid, illegal or unenforceable in any applicable jurisdiction, the validity, legality and enforceability of the remaining provisions or obligations, or of such provision or obligation in any other jurisdiction, shall not in any way be affected or impaired thereby.

(g) <u>Successors/Assigns</u>. This Agreement shall bind, and the rights hereunder shall inure to, the respective successors and assigns of the parties hereto, subject to the provisions of the Credit Agreement and the other Financing Documents.

[SIGNATURES APPEAR ON FOLLOWING PAGES]

IN WITNESS WHEREOF, intending to be legally bound, and intending that this document constitute an agreement executed under seal, the undersigned have executed this Agreement under seal as of the day and year first hereinabove set forth.

AGENT:

MIDCAP FUNDING IV TRUST, a Delaware statutory trust

- By: Apollo Capital Management, L.P., its investment manager
- By: Apollo Capital Management GP, LLC, its general partner

By:

Name: Maurice Amsellem Title: Authorized Signatory

LENDERS

MIDCAP FUNDING IV TRUST, a Delaware statutory trust

- By: Apollo Capital Management, L.P., its investment manager
- By: Apollo Capital Management GP, LLC, its general partner

By: Sugaran and

Name: Maurice Amsellem Title: Authorized Signatory

[Signatures Continue on Following Page]

MidCap / Alphatec / Second Amendment to A&R Credit Agreement DC - 039759/000002 - 6681247

BORROWERS:

ALPHATEC HOLDINGS, INC., a Delaware corporation By:

(SEAL)

Name: Michael O'Neill Title: Chief Financial Officer

ALPHATEC SPINE, INC., a California compration By:

(SEAL)

Name: Miehael-O Neill Title: Chief Financial Officer

ALPHATEC INTERNATIONAL LLC, a Delaware limited liability company

By: (SEAL)

Name: Ebun S. Garner, Esq. Title: General Counsel and SVP, Alphatec Holdings, Inc., General Partner of Alphatec Holdings, International C.V., Sole Member

ALPHATEC PACIFIC, INC., a Japanese company

By: (SEAL)

Name: Ebun S. Garner, Esq. Title: Director

MidCap / Alphatec / Second Amendment to A&R Credit Agreement DC -- 039759/000002 -- 6681247

SCHEDULE 3.19

INTELLECTUAL PROPERTY

See attached

US Issued

FILE #	TITLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION #
1101US/CIP	CONICAL INTERSPINOUS APPARATUS AND A METHOD OF PERFORMING INTERSPINOUS DISTRACTION	Utility - CIP	United States of America	Issued	12/616,245
0101US/CIP/CON	CONICAL INTERSPINOUS APPARATUS AND A METHOD OF PERFORMING INTERSPINOUS DISTRACTION	Utility - CON	United States of America	issued	13/478,564
0105US	STAND ALONE INTERBODY FIXATION SYSTEM	Utility - NPREG	United States of America	Issued	12/852,033
D105US/CIP	STAND-ALONE INTERBODY FIXATION SYSTEM	Utility - CIP	United States of America	Issued	13/633,301
0106PCT/US/CIP	Interbody Spinal Stabilization Cage and Spinal Stabilization Method	Utility - CIP	United States of America	Issued	10/109,254
2108US	INSTRUMENT FOR INSERTION AND DEPLOYMENT OF FEATURES ON AN IMPLANT	Utility - NPREG	United States of America	Issued	12/944,507
<u>114US</u>	CLAMPING INTERSPINOUS SPACER APPARATUS AND METHODS OF USE	Utility - NPREG	United States of America	Issued	13/240,846
<u>)122US</u>	DISTAL LOADING RECEIVER FOR A POLYAXIAL BONE SCREW	Utility - NPREG	United States of America	Issued	13/274,203
<u>0123US</u>	SCREW HEAD LOCKER APPARATUS AND METHODS OF USE	Utility - NPREG	United States of America	Issued	13/270,405
0 <u>127US</u>	POLYAXIAL BONE SCREW WITH LATERAL CONNECTOR	Utility - NPREG	United States of America	Issued	13/277,439
0135US	SCREW ASSEMBLY WITH DEFORMABLE BUSHING	Utility - NPREG	United States of America	issued	13/420,012
2146US	SYSTEMS FOR VERTEBRAL ADJUSTMENTS AND ROD REDUCTION	Utility - ORG	United States of America	Issued	13/282,248
0148US	INSTRUMENT AND METHOD FOR SPINAL COMPRESSION	Utility - NPREG	United States of America	Issued	13/864,012
0149US	Surgical Screwdriver	Utility - ORG	United States of America	Issued	13/453,622
)152US	Interspinous Process Device and Method	Utility - NPREG	United States of America	Issued	13/867,811
<u>0167US</u>	INTERBODY FUSION IMPLANT AND RELATED METHODS	Utility - ORG	United States of America	Issued	12/834,855
26786-504/US	ARTIFICIAL INTERVERTEBRAL DISC ASSEMBLY	Utility - ORG	United States of America	Issued	11/062,782
26786-505.c/US	TOP TIGHTENING BONE FIXATION APPARATUS	Utility - CON	United States of America	Issued	08/695,318
26786-505/05	TOP TIGHTENING BONE FIXATION APPARATUS	Utility - ORG	United States of America	Issued	08/405,813
26786-507/US	TRANSVERSE ROD CONNECTOR	Utility - ORG	United States of America	Issued	11/544,893
26786-508/US	ADJUSTABLE OCCIPITAL PLATE	Utility - ORG	United States of America	Issued	11/544,889
26786-509/US	RETRACTOR AND METHODS OF USE	Utility - ORG	United States of America	Issued	11/544,890

US Issued

FILE #	TITLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION #
26786-511	SURGICAL PROCEDURE FOR IMPLANTING SPINAL FUSION	Utility - CIP	United States of America	Issued	09/871,908
<u>.CP2/US</u>	DEVICE				
26786-511 .D2/US	END CUT APPARATUS FOR IMPLANTING SPINAL FUSION	Utility - DIV	United States of America	Issued	09/408,760
	DEVICE				
26786-511 .D4/US	SURGICAL APPARATUS DRIVER DEVICE	Utility - DIV	United States of America	lssued	09/411,500
26786-511.CP1/US	APPARATUS AND METHOD FOR SPINAL FUSION USING IMPLANTED DEVICES	Utility - CIP	United States of America	Issued	09/248,151
26786-511.D1/US	TOME APPARATUS FOR IMPLANTING SPINAL FUSION	Utility - DIV	United States of America	Issued	09/408,762
26786-511.D3/US	CUTTING JIG AND GUIDE FOR TOME APPARATUS FOR SPINAL IMPLANT	Utility - DIV	United States of America	Issued	09/411,501
<u>26786-511.D5/US</u>	DEVICE FOR SPINAL FUSION	Utility - DIV	United States of America	lssued	10/338,068
26786-511/US	IMPLANT FOR SPINAL FUSION	Utility - ORG	United States of America	issued	09/072,777
26786-512/US	DYNAMIC IMPLANTED INTERVERTEBRAL SPACER	Utility - ORG	United States of America	Issued	09/988,931
<u>26786-513/US</u>	ALLOGRAFT IMPLANT CUTTING MACHINE	Utility - ORG	United States of America	Issued	10/241,233
<u>26786-514/US</u>	DOUBLE DOWEL SPINAL FUSION IMPLANT	Utility - ORG	United States of America	Issued	10/060,740
26786-515CON/US	SERRATOME VERTEBRAL CORTICAL ENDPLATE CUTTER	Utility - CON	United States of America	Issued	12/637,718
26786-515DIV	SERRATOME VERTEBRAL CORTICAL ENDPLATE CUTTER	Utility - DIV	United States of America	Issued	11/012,770
26786-519.1/US	VARIABLE ANGLE SPINAL SCREW ASSEMBLY	Utility - CON	United States of America	Issued	12/154,448
26786-519/US	VARIABLE ANGLE SPINAL SCREW ASSEMBLY	Utility - ORG	United States of America	Issued	10/848,946
26786-520-NATL	VERTEBRAL BODY REPLACEMENT CAGE ASSEMBLY	Utility - NSPCT	United States of America	Issued	10/579,661
26786-521 PRO.059/US	ANTERIOR CERVICAL PLATE AND FIXATION SYSTEM	Utility - ORG	United States of America	Issued	09/314,617
26786-521	ANTERIOR CERVICAL PLATE AND FIXATION SYSTEM	Utility - DIV	United States of America	Issued	09/803,394
PRO.DIV/US 26786-	SPINAL FIXATION DEVICE	Utility - ORG	United States of America	lissued	08/196.448
530.US1/US		n a san (M. La Sun Ta			
26786-531/US	SECURING DEVICE AND CORRESPONDING METHODS THEREOF FOR BONE FIXATION SYSTEMS	Utility - ORG	United States of America	Issued	11/284,727
<u>26786-536/US</u>	SYSTEMS AND METHODS FOR MANIPULATING AND/OR INSTALUNG A PEDICLE SCREW	Utility - ORG	United States of America	issued	11/820,312

FILE #	TITLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION #
26786-540US	RETRACTOR	Utility - ORG	United States of America	Issued	11/903,896
<u>26786-543/US</u>	MULTI-AXIAL TRANSVERSE ROD CONNECTOR	Utility - ORG	United States of America	lssued	11/973,709
<u>26786-551US</u>	PROCESSES AND SYSTEMS FOR HYDRATING AND SEEDING	Utility - ORG	United States of America	Issued	12/130,920
	MEDICAL IMPLANTS WITH BIOLOGICAL COMPONENTS				
<u>26786-552US</u>	OCCIPITAL FIXATION SCREW	Utility - ORG	United States of America	Issued	12/217,685
<u>26786-565001/US</u>	SYSTEMS AND METHODS FOR SPINAL FIXATION	Utility - NPREG	United States of America	issued	12/290,035
<u> 26786-</u>	INSTRUMENT FOR COMPRESSION AND DISTRACTION	Utiliity - DIV	United States of America	Issued	13/777,582
565001/US/DIV2					
26786-565002/US	SYSTEMS AND METHODS FOR SPINAL FIXATION	Utility - CiP	United States of America	issued	12/462,974
26786- 565002/US/CIP1	Instrument and Method for Spinal Compression and Distraction	Utility - CIP	United States of America	Issued	13/409,711
26786-570US	METHOD AND DEVICE FOR IMPLANT DEPLOYMENT.	Utility - ORG	United States of America	Issued	12/455,602
26786-572/US	BONE PLATE ASSEMBLY	Utility - ORG	United States of America	issued	12/460,390
26786-574/US	SPINOUS PROCESS DEVICE AND METHOD OF USE	Utility - ORG	United States of America	Issued	12/462,858
25786-574US/DIV	SPINOUS PROCESS DEVICE AND METHOD OF USE	Utility - DIV	United States of America	Issued	13/488,167
ALSPN.009CP1/US	PROCESSES AND SYSTEMS FOR LOADING MEDICAL IMPLANTS WITH SIMULATIVE GROWTH AGENTS	Utility - CIP	United States of America	Issued	12/251,297
ALSPN.011US/US	EXPANDABLE SPINAL SUPPORT DEVICE WITH ATTACHABLE. MEMBERS AND METHODS OF USE	Utility - ORG	United States of America	issued	12/755,271
ALSPN.035US/CON	BONE SCREW ASSEMBLY FOR LIMITED ANGULATION	Utility - CON	United States of America	Issued	13/752,924
ALSPN.035US/US	BONE SCREW ASSEMBLY FOR LIMITED ANGULATION	Utility - ORG	United States of America	Issued	12/792,072
PHYG- 001/US/CON	PEDICLE SCREW ASSEMBLY	Utility - CON	United States of America	Issued	12/725,401
PHYG-001REEX	PEDICLE SCREW ASSEMBLY	Utility - REEX	United States of America	Issued	90/012,701
<u>PHYG-003/US</u>	ROD REDUCER	Utility - NPNEW	United States of America	Issued	11/804,723
PHYG-004/US	PEDICLE SCREW ASSEMBLY WITH INCLINED SURFACE SEAT	Utility - NPNEW	United States of America	Issued	11/777,945

Alphatec S	pine Patents	\$ 2015-06-30

US Issued

FILE #	TITLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION #
PHYG-004/US/DIV	PEDICLE SCREW ASSEMBLY WITH INCLINED SURFACE SEAT	Utility - DIV	United States of America	Issued	13/424,121
PHYG-006/UŞ	Bottom-Loading Pedicle Screw Assembly	Utility - NPNEW	United States of America	Issued	12/077,940
<u>SX0001/US</u>	DISPOSITIF DE LIAISON RACHIDIENNE TRANSVERSE	Utility - ORG	United States of America	Issued	08/811,930
<u>\$X0002/US</u>	PROTHESE D'ARTICULATION VERTEBRALE POSTERIEURE	Utility - NSPCT	United States of America	Issued	10/493,217
<u>\$X0003/US</u>	Intersomatic setting and fusion system (PCB)	Utility - ORG	United States of America	Issued	09/147,083
<u>SX0004/US</u>	Implant for osteosynthesis device with hook	Utility - NSPCT	United States of America	Issued	09/423,310
<u>5X0008/US</u>	implant for osteosynthesis device and tool for setting such implant	Utility - ORG	United States of America	Issued	09/380,614
<u>sx0009/US</u>	Intervertebral connection device with an anti-extraction device to prevent extraction of anchoring screws	Utility - ORG	United States of America	lssued	09/271,287
<u>5X0010/US</u>	Anterior osteosynthesis plate for lumbar vertebrae or sacral lumbar vertebra and instrument for positioning same	Utility - NSPCT	United States of America	Issued	09/890,110
<u>5X0011/U5</u>	Intervertebral link device capable of axial and angular. displacement IISOBAR)	Utility - ORG	United States of America	Issued	09/200,730
<u>5X0012/US</u>	Intersomatic implant for sagittal insertion and suitable for being offset transversely in the frontal plane	Utility - NSPCT	United States of America	Issued	09/889,190
<u>SX0013/US</u>	IMPLANT FOR OSTEOSYNTHESIS DEVICE IN PARTICULAR OF THE BACKBONE	Utility - NSPCT	United States of America	Issued	10/009,998
SX0014/US	Anatomical interbody implant and gripper for same	Utility - NSPCT	United States of America	Issued	10/030,398
<u>SX0015/US</u>	Intervertebral linking device with connecting bar for fixing a linking rod	Utility - NSPCT	United States of America	issued	10/182,349
SX0016.02/US	Disk prosthesis for cervical vertebrae	Utility - REIS	United States of America	Issued	10/920,463
<u>SX0016.03/US</u>	Disk prosthesis for cervical vertebrae	Utility - ORG	United States of America	Issued	09/521,896
SX0018/US	PCLAS	Utility - NSPCT	United States of America	Issued	10/473,773
<u> 5X0019/US</u>	VIS POLYAXIALE A DOME	Utility - NSPCT	United States of America	Issued	10/520,961
<u>5X0020/US</u>	LIAISON TRANSVERSALE	Utility - NSPCT	United States of America	Issued	10/504,277
<u>5X0021/U5</u>	IMPLANT DYNAMIQUE	Utility - ORG	United States of America	Issued	10/395,094
<u> 5X0022/US</u>	ECROU ROTULE	Utility - ORG	United States of America	Issued	10/427,950
SX0024/US	IMPLANT DE CORPORECTOMIE	Utility - NSPCT	United States of America	Issued	10/543,691

US Issued

FILE #	TINE	MATTER TYPE	COUNTRY	STATUS	APPLICATION #
<u>SX0026/US</u>	Disk prosthesis for cervical vertebrae with controlled	Utility - ORG	United States of America	Issued	10/673,165
	clearance				
<u>5X0031/US</u>	CALE INTEREPINEUSE	Utility - ORG	United States of America	Issued	11/496,492

FILE #	TITLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION #
0105U5/CON1	STAND ALONE INTERBODY FIXATION SYSTEM	Utility - CON	United States of America	Published	13/666,099
108US/CIP	INSTRUMENT FOR INSERTION AND DEPLOYMENT OF AN IMPLANT	Utility - CIP	United States of America	Published	13/718,092
114USDIV1	interspinous Process Spacer Apparatus And Methods Of Use	Utility - DIV	United States of America	Pending	14/184,967
0121US	POLYAXIAL BONE SCREW	Utility - NPREG	United States of America	Published	13/288,225
<u>1126US</u>	SPINAL INSTRUMENTS WITH SET SCREW LOADING AND RETENTION APPARATUS AND METHODS OF USE	Utility - NPREG	United States of America	Published	13/293,553
127USCON1	POLYAXIAL BONE SCREW WITH LATERAL CONNECTOR	Utility - CON	United States of America	Published	14/454,005
129US	BONE FIXATION SYSTEMS AND METHODS	Utility ~ ORG	United States of America	Published	13/010,392
<u>9132US</u>	SYSTEMS AND METHODS FOR CORRECTING SPINAL.	Utility - NPREG	United States of America	Published	13/367,602
1132USCON1	SYSTEMS AND METHODS FOR CORRECTING SPINAL DEFORMITY	Utility - CON	United States of America	Pending	14/331,579
13405	EXPANDABLE INTERBODY SPACER	Utility - NPREG	United States of America	Published	13/414,876
134USCON1	EXPANDABLE INTERBODY SPACER	Utility - CON	United States of America	Pending	14/336,918
136US	FASTENER RETENTION SYSTEM FOR SPINAL PLATES	Utility - ORG	United States of America	Published	13/042,074
<u>1137US2</u>	APPARATUS FOR LINKING IMPLANTS AND REDUCING DEFORMITIES	Utility - NPREG	United States of America	Published	13/403,275
138PCT/CON	STAND ALONE INTERBODY FIXATION SYSTEM	Utility - NSPCT	United States of America	Published	14/060,424
138US2	STAND ALONE INTERBODY FIXATION SYSTEM	Utility - NPREG	United States of America	Allowed	13/453,054
141US	Instrument for Manipulating Surgical Implants	Utility - NPREG	United States of America	Published	13/589,964
<u>)143US</u>	instrument for Removal of Material from within a Body	Utility - NPREG	United States of America	Published	13/545,174
<u>2145U5</u>	APPARATUS AND METHOD FOR CONNECTING SURGICAL ROOS	Utility - NPREG	United States of America	Allowed	13/569,312
1146USCON1	SYSTEMS FOR VERTEBRAL ADJUSTMENTS AND ROD REDUCTION	Utility - CON	United States of America	Published	14/537,505
<u>1150US</u>	Instrument and Method for Reducing and Securing Spinal Rods	Utility - NPREG	United States of America	Published	13/957,218
0153US	Spondylolisthesis Reduction System	Utility - NPNEW	United States of America	Allowed	13/835,938

US Pending

FILE #	TITLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION
<u>2154US</u>	IN SITU ROD MEASURING INSTRUMENT AND METHOD OF	Utility - NPREG	United States of America	Published	14/043,094
0155US	Expandable Screw and Methods of Use	Utility - NPREG	United States of America	Published	14/039,520
0156US	INSTRUMENT AND METHOD FOR RESTORING MOTION TO	Utility - NPREG	United States of America	Published	14/056.573
	A POLYAXIAL SCREW				
0157US	Instrument and Method for Provisionally Locking a	Utility - NPREG	United States of America	Published	14/058,144
	Polyaxial Screw				
0158US	Interbody Spacer and Plate Inserter and Methods of Use	Utility - NPREG	United States of America	Published	14/155,301
0159US	INSTRUMENT AND METHOD FOR IN SITU ROD ADJUSTMENT	Utility - NPREG	United States of America	Published	14/068,416
<u>161US</u>	SYSTEMS AND METHODS FOR SPINAL COMPRESSION,	Utility - NPREG	United States of America	Published	14/192,502
	DISTRACTION, AND FIXATION				
<u>0163US</u>	Spinal Deformity Correction Instruments and Methods	Utility - NPREG	United States of America	Published	14/194,258
0165US	Systems and Methods for Tissue Retraction	Utility - NPREG	United States of America	Published	14/253,619
0166US	Uniplanar Screw Assembly and Methods of Use	Utility - NPREG	United States of America	Published	14/250,685
01.67USDIV	INTERBODY FUSION IMPLANT AND RELATED METHOOS	Utility - DIV	United States of America	Published	13/920,483
0168US	Blade Attachment and Adjustment Mechanism for Tissue	Utility - NPREG	United States of America	Published	14/457,581
	Retraction				
0169US	Expandable Trial and Method of Use	Utility - NPREG	United States of America	Pending	14/475,051
01.70US	Interbody Fusion Implant And Related Methods	Utility - NPREG	United States of America	Published	14/026,364
0173US	Spondylolisthesis Reduction System	Utility - NPREG	United States of America	Pending	14/539,567
0177US	Instrument for Implanting Implant Devivce	Utility - NPREG	United States of America	Pending	14/663,508
<u>0179US</u>	Single Action Locking Pedicle Screw Driver	Utility - ORG	United States of America	Pending	14/305,254
0180PR	Osteotomy Instrument	Prov - ORG	United States of America	Pending	62/060,818
<u>0181PR</u>	Pedicle Screw	Prov - ORG	United States of America	Pending	62/059,657
<u>0182PR</u>	Polyaxial Bone Screw and Bushing	Prov - ORG	United States of America	Pending	62/063,709
<u>0183PR</u>	Implant Insertion Instrument	Prov - ORG	United States of America	Pending	62/112,773
264786 . 542USCON1	SPINAL SPACER	Utility - CON	United States of America	Pending	
26785-508USCON	ADJUSTABLE OCCIPITAL PLATE	Utility - CON	United States of America	Published	14/512,026

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US Pending

FILE #	TITLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION #
26786-536USCON	Systems and Methods for Manipulating and/or Installing	Utility - CON	United States of America	Published	14/453,058
	Title of Invention a Pedical Screw				
26786-538US	PLATING SYSTEMS FOR BONE FIXATION	Utility - ORG	United States of America	Allowed	11/771,383
26786-	RETRACTOR	Utility - CON	United States of America	Published	14/471,878
540US/CON1					
26786-541/US	VERTEBRAL BODY REPLACEMENT	Utility - ORG	United States of America	Published	11/903,938
26786-542/US	SPINAL SPACER	Utility - ORG	United States of America	Published	11/903,895
2 <u>6786-</u> 542USCON1	SPINAL SPACER	Utility - CON	United States of America	Published	14/551,378
26786-	SYSTEMS AND METHODS FOR SPINAL FIXATION	Utility - CON	United States of America	Published	13/804,297
565001/US/CON1					
<u>26786-</u> 565001/US/DIV1	METHODS FOR SPINAL FIXATION	Utility - DIV	United States of America	Allowed	13/777,544
26786- 565001/US/DIV3	INSTRUMENT FOR COMPRESSION AND DISTRACTION	Utility - DIV	United States of America	Allowed	13/799,846
26786- 565002/US/DIV2	ROD INSERTER AND METHODS OF USE	Utility - DIV	United States of America	Published	13/828,573
26786- 565002/US/DIV3	ROD INSERTER AND METHODS OF USE	Utility - DIV	United States of America	Published	13/828,180
26786- 565002DIV1CIP1	Percutaneous Rod Inserter	Utility - CIP	United States of America	Published	13/786,798
26786-570US/CIP	IMPLANT DEPLOYMENT SYSTEM AND METHODS OF USE	Utility - CIP	United States of America	Published	13/644,376
26786-574USDIV2	SPINOUS PROCESS DEVICE AND METHOD OF USE	Utility - DIV	United States of America	Published	14/134,478
26786-576/US	MODULAR ANTERIOR LOCKING INTERBODY CAGE	Utility - ORG	United States of America	Published	12/455,719
ALSPN.015USCON	Methods and Systems for Storing Medical Implants Under Sustained Vacuum	Utility - CON	United States of America	Published	14/242,270
ALSPN.029US/US	MODULUS-MATCHING GRAFT	Utility - ORG	United States of America	Published	12/703,649
ALSPN.035USCON 2	BONE SCREW ASSEMBLY FOR LIMITED ANGULATION	Utility - CON	United States of America	Pending	14/225,228
PHYG-002USDIV1	Pedicle screw assembly	Utility - DIV	United States of America	Published	14/045,110

US Pending

File #	TITLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION #
PHYG-004US/DIVZ	PEDICLE SCREW ASSEMBLY WITH INCLINED SURFACE SEAT	Utility - DIV	United States of America	Published	13/910,887
PHYG-005/US	Transverse Vertebral Connector	Utility - ORG	United States of America	Published	12/074,719
PHYG-005U5/CON	Transverse Vertebral Connector	Utility - CON	United States of America	Published	13/890,136
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FILE #	TITLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION #
0106PCT/KR	Interbody Spinal Stabilization Cage and Spinal Stabilization. Method	Utility - NSPCT	Republic of Korea	Issued	7016892/01
26786-504EP	ARTIFICIAL INTERVERTEBRAL DISC ASSEMBLY	Utility - NSPCT	European Patent Office	Issued	06720954.4
26786-504JP	ARTIFICIAL INTERVERTEBRAL DISC ASSEMBLY	Utility - NSPCT	Japan	Issued	2007-556406
26786-505/EP	TOP TIGHTENING BONE FIXATION APPARATUS	Utility - NSPCT	European Patent Office	Issued	96910456.1
26786-505/JP	TOP TIGHTENING BONE FIXATION APPARATUS	Utility - NSPCT	Japan	Issued	8-527844
26786-508EP	ADJUSTABLE OCCIPITAL PLATE	Utility - NSPCT	European Patent Office	Issued	06816626.3
26786-508JP	ADJUSTABLE OCCIPITAL PLATE	Utility - NSPCT	Japan	Issued	2008-534769
<u>26786-512</u> PRO/DE	DYNAMIC LUMBAR/CERVICAL IMPLANT SPACER	Utility - NSPCT	Germany	Issued	01990138.8
26786-512 PRO/EP	DYNAMIC IMPLANTED INTERVENTEBRAL SPACER	Utility - NSPCT	European Patent Office	Issued	01990138.8
<u>26786-512</u> PRO/FR	DYNAMIC LUMBAR/CERVICAL IMPLANT SPACER	Utility - NSPCT	France	Issued	01990138.8
26786-512 PRO/GB	DYNAMIC LUMBAR/CERVICAL IMPLANT SPACER	Utility - NSPCT	United Kingdom	Issued	01990138.8
26786-536JP	SYSTEMS AND METHODS FOR MANIPULATING AND/OR INSTALLING A PEDICLE SCREW	Utility - NSPCT	Japan	Issued	2009-515532
26786-540PCT/EP	<u></u>	Utility - NSPCT	European Patent Office	lssued	07838764.4
<u>26786-581N01EP</u>	PROCESSES AND SYSTEMS FOR LOADING MEDICAL IMPLANTS WITH SIMULATIVE GROWTH AGENTS	Utility - NSPCT	European Patent Office	issued	08825396.8
SG 10171/EP	MULTIAXIAL CONNECTOR FOR SPINAL IMPLANT	Utility - NSPCT	European Patent Office	issued	00946016.3
SG 10171/E5	MULTIAXIAL CONNECTOR FOR SPINAL IMPLANT	Utility - EPPAT	Spain	Issued	00946016.3
SG 10171/GB	MULTIAXIAL CONNECTOR FOR SPINAL IMPLANT	Utility - EPPAT	United Kingdom	Issued	00946015.3
SG 10171/IT	MULTIAXIAL CONNECTOR FOR SPINAL IMPLANT	Utility - EPPAT	italy	Issued	00946016.3
SG 10172/EP	ANTI-SLIP DEVICE FOR AN ORTHOPEDIC IMPLANT	Utility - NSPCT	European Patent Office	Issued	00942172.8
<u>5G 10172/ES</u>	ANTI-SLIP DEVICE FOR AN ORTHOPEDIC IMPLANT	Utility - EPPAT	Spain	Issued	00942172.8
<u>SG 10172/G8</u>	ANTI-SUP DEVICE FOR AN ORTHOPEDIC IMPLANT	Utility - EPPAT	United Kingdom	Issued	00942172.8
<u>SG 10172/JP</u>	ANTI-SLIP DEVICE FOR AN ORTHOPEDIC IMPLANT	Utility - NSPCT	Japan	Issued	2001-504307
<u>SG 10201/EP</u>	ANATOMICAL STRUCTURE FOR TRAINING SURGEONS IN ORTHOPAEDIC 5 URGERY, IN PARTICULAR BACKBONE	Utility - NSPCT	European Patent Office	Issued	99907665.6
	SURGERY			1	

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FILE #	TITLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION I
SG 10201/FR	ANATOMICAL STRUCTURE FOR TRAINING SURGEONS IN	Utility - EPPAT	France	Issued	99907665.6
	ORTHOPAEDICS URGERY, IN PARTICULAR BACKBONE				
	SURGERY				
<u>SG 10203/EP</u>	POSTERIOR BACKBONE OSTEOSYNTHESIS DEVICE	Utility - NSPCT	European Patent Office	Issued	99941719.9
<u>SG 10222/FR</u>	IMPLANT POUR LE TRAITEMENT CHIRURGICAL D'UNE	Utility - ORG	France	issued	9506995
	FRACTURE ISTHM IQUE VERTEBRALE				
<u>SG 10232.1/FR</u>	CONNECTOR FOR VERTEBRAL ANCHORING SYSTEM	Utility - ORG	France	Issued	0115298
SG 10232/CH	CONNECTOR FOR VERTEBRAL ANCHORING SYSTEM	Utility - EPPAT	Switzerland	Issued	02803823.0
SG 10232/DE	CONNECTOR FOR VERTEBRAL ANCHORING SYSTEM	Utility - EPPAT	Germany	Issued	02803823.0
SG 10232/EP	CONNECTOR FOR VERTEBRAL ANCHORING SYSTEM	Utility - NSPCT	European Patent Office	Issued	02803823.0
5G 10232/ES	CONNECTOR FOR VERTEBRAL ANCHORING SYSTEM	Utility - EPPAT	Spain	Issued	02803823.0
SG 10232/FR	CONNECTOR FOR VERTEBRAL ANCHORING SYSTEM	Utility - EPPAT	France	Issued	02803823.0
SG 10232/GB	CONNECTOR FOR VERTEBRAL ANCHORING SYSTEM	Utility - EPPAT	United Kingdom	Issued	02803823.0
SG 10232/IE	CONNECTOR FOR VERTEBRAL ANCHORING SYSTEM	Utility - EPPAT	Ireland	Issued	02803823.0
SG 10232/IT	CONNECTOR FOR VERTEBRAL ANCHORING SYSTEM	Utility - EPPAT	Italy	issued	02803823.0
SG 10238/FR	INSTRUMENT CHIRURGICAL	Utility - ORG	France	Issued	0114005
SG 10239/FR	PROCEDE DE VISUALISATION ET DE CONTROLE DE	Utility - ORG	France	Issued	0202754
	L'EQUILIBRE D'UN E COLONNE VERTEBRALE				
SG 10287/FR	DISPOSITIF D'ANCRAGE VERTEBRAL ET SON DISPOSITIF DE	Utility - ORG	France	Issued	0214454
	BLOCAGE SUR UNE VIS POLY AXIALE				
5G 10294/FR	DISPOSITIF DE FIXATION THORACIQUE	Utility - ORG	France	issued	0302789
SG 10295/EP	PEDICLE HOOKS FOR A RACHIDIAL FIXING DEVICE	Utility - NSPCT	European Patent Office	Issued	04767362.9
SG 10300.1/FR	DEVICE FOR LOCKING A LINK ROD IN A BONE ANCHORING	Utility - ORG	France	Issued	0216441
	ELEMENT O F A SPINAL IMPLANT				
SG 10300/BE	DEVICE FOR LOCKING A LINK ROD IN A BONE ANCHORING	Utility - EPPAT	Belgium	Issued	03778390.9
	ELEMENT O F A SPINAL IMPLANT		7		
SG 10300/DE	DEVICE FOR LOCKING A LINK ROD IN A BONE ANCHORING	Utility - EPPAT	Germany	issued	03778390.9
	ELEMENT O F A SPINAL IMPLANT				
SG 10300/EP	DEVICE FOR LOCKING A LINK ROD IN A BONE ANCHORING	Utility - NSPCT	European Patent Office	Issued	03778390.9
	ELEMENT O F A SPINAL IMPLANT				
SG 10300/ES	DEVICE FOR LOCKING A LINK ROD IN A BONE ANCHORING	Utility - EPPAT	Spain	Issued	03778390.9
	ELEMENT O F A SPINAL IMPLANT				
SG 10300/FR	DEVICE FOR LOCKING A LINK ROD IN A BONE ANCHORING	Utility - EPPAT	France	Issued	03778390.9
	ELEMENT O F A SPINAL IMPLANT				

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FILE #	TITLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION #
SG 10300/GB	DEVICE FOR LOCKING A LINK ROD IN A BONE ANCHORING	Utility - EPPAT	United Kingdom	Issued	03778390.9
	ELEMENT O F A SPINAL IMPLANT				
SG 10300/GR	DEVICE FOR LOCKING A LINK ROD IN A BONE ANCHORING	Utility - EPPAT	Greece	Issued	03778390.9
	ELEMENT O F A SPINAL IMPLANT				
SG 10300/IT	DEVICE FOR LOCKING A LINK ROD IN A BONE ANCHORING	Utility - EPPAT	italy	issued	03778390.9
	ELEMENT O F A SPINAL IMPLANT				
SG 10300/JP	DEVICE FOR LOCKING A LINK ROD IN A BONE ANCHORING.	Utility - NSPCT	Јарал	issued	2005-512886
	ELEMENT OF A SPINAL IMPLANT				4
G 10300/TR	DEVICE FOR LOCKING A LINK ROD IN A BONE ANCHORING	Utility - EPPAT	Turkey	Issued	03778390.9
	ELEMENT O F A SPINAL IMPLANT				
G 10309/FR	DISPOSITIF DE FIXATION OCCIPITALE	Utility - ORG	France	Issued	0311982
5G 10314/FR	MATERIEL D'OSTEOSYNTHESES RACHIDIENNES	Utility - ORG	France	Issued	8814592
G 10316/FR	CAGE INTERSOMATIQUE POUR FUSION LOMBAIRE PAR	Utility - ORG	France	Issued	0312691
: 	ABORD TRANSFOR AMINAL ET SON DISPOSITIF PORTE				
	CAGE				
<u>SG 10316/JP</u>	INTERSOMATIC CAGE FOR LUMBAR FUSION BY	Utility - NSPCT	Japan	Issued	2006-537356
	TRANSFORAMINAL ACCESS AND CAGE-HOLDER DEVICE				
	THEREFOR				
SG 10318/FR	INSTRUMENT CHIRURGICAL DE TYPE CLIPSEUSE POUR	Utility - ORG	France	Issued	0314130
	IMPLANT RACHI DIEN				
SG 10326/FR	INSTRUMENT CHIRURGICAL DE TYPE DECLIPSEUSE POUR	Utility - ORG	France	Issued	0315251
	IMPLANT RAC HIOIEN.				
SX0001.03/FR	LIGAMENT DESAUGE	Utility - ORG	France	Issued	9413295
5X0001.04/FR	CAGE CH	Utility - ORG	France	Issued	9311552
SX0001.07/FR	DISPOSITIF DE LIAISON RACHIDIENNE TRANSVERSE	Utility - ORG	France	lssued	9603053
5X0001/8E	DISPOSITIF DE LIAISON RACHIDIENNE TRANSVERSE	Utility - EPPAT	Belgium	Issued	97450002.7
5X0001/CH	DISPOSITIF DE LIAISON RACHIDIENNE TRANSVERSE	Utility - ORG	Switzerland	Issued	97450002.7
<u>SX0001/DE</u>	DISPOSITIF DE LIAISON RACHIDIENNE TRANSVERSE	Utility - ORG	Germany	Issued	97450002.7
<u>SX0001/EP</u>	DISPOSITIF DE LIAISON RACHIDIENNE TRANSVERSE	Utility - ORG	European Patent Office	Issued	97450002.7
<u>5X0001/ES</u>	DISPOSITIF DE LIAISON RACHIDIENNE TRANSVERSE	Utility - ORG	Spain	Issued	97450002.7
5X0001/FR	CAGE CR	Utility - ORG	France	Issued	9302558
<u>5X0001/GB</u>	DISPOSITIF DE LIAISON RACHIDIENNE TRANSVERSE	Utility - ORG	United Kingdom	Issued	97450002.7
SX0001/IT	DISPOSITIF DE LIAISON RACHIDIENNE TRANSVERSE	Utility - ORG	Italy	Issued	97450002.7
SX0002.01/FR	ISOLOCK SEMI-RIGIDE	Utility - ORG	France	issued	9213928
SX0002.02/FR	CAGE ISOMORPHIQUE	Utility - ORG	France	Issued	9504789

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FILE #	TITLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION #
5X0002/CA	PROTHESE D'ARTICULATION VERTEBRALE POSTERIEURE	Utility - NSPCT	Canada	Issued	2,466,661
<u>\$X0002/FR</u>	PROTHESE D'ARTICULATION VERTEBRALE POSTERIEURE	Utility - ORG	France	Issued	0114766
SXCOO2EP	POSTERIOR VERTEBRAL JOINT PROSTHESIS	Utility - NSPCT	European Patent Office	Issued	02788060.8
SXODD2EP/FR	POSTERIOR VERTEBRAL JOINT PROSTHESIS	Utility - EPPAT	France	Issued	027880608
SXCOO2EP/GB	POSTERIOR VERTEBRAL JOINT PROSTHESIS	Utility - EPPAT	United Kingdom	Issued	027880608
SX00021P	POSTERIOR VERTEBRAL JOINT PROSTHESIS	Utility - NSPCT	Japan	Issued	2003-543505
X0003/BR	PCB	Utility - ORG	Brazil	Issued	PI9710703
X0003/DE	PCB	Utility - ORG	Germany	Issued	97919466.9
XDOO3/ES	PCB	Utility - ORG	Spain	Issued	97919466.9
X0003/GB	PCB	Utility - ORG	United Kingdom	issued	97919466.9
X0003/IT	PCB	Utility - ORG	italy	issued	97919466.9
X0003/JP	INTERSOMATIC SETTING AND FUSION SYSTEM	Utility - ORG	Japan	Issued	09535901
XOOO3EP	INTERSOMATIC SETTING AND FUSION SYSTEM	Utility - ORG	European Patent Office	Issued	97919466.9
X0004/DE	DOUBLE CROCHET	Utility - ORG	Germany	Issued	98925727,4
X0004/ES	DOUBLE CROCHET	Utility - ORG	Spain	Issued	98925727.4
X0004/IT	DOUBLE CROCHET	Utility - ORG	ltalγ	issued	98925727.4
X0004EP	IMPLANT FOR OSTEOSYNTHESIS DEVICE WITH HOOK	Utility - NSPCT	European Patent Office	Issued	98925727.4
X0007/FR	PLAQUE RX	Utility - ORG	France	Issued	9701109
5X0008.01/FR	IMPLANT FOR OSTEDSYNTHESIS DEVICE AND TOOL FOR SETTING SUCH IMPLANT	Utility - ORG	France	Issued	98914942.2
5X0008/CH	IMPLANT FOR OSTEOSYNTHESIS DEVICE AND TOOL FOR SETTING SUCH IMPLANT	Utility - ORG	Switzerland	Issued	98914942.2
X0008/DE	IMPLANT FOR OSTEOSYNTHESIS DEVICE AND TOOL FOR SETTING SUCH IMPLANT	Utility - ORG	Germany	Issued	98914942.2
X0008/EP	IMPLANT FOR OSTEOSYNTHESIS DEVICE AND TOOL FOR SETTING SUCH IMPLANT	Utility - ORG	European Patent Office	Issued	98914942.2
XQQQ8/ES	IMPLANT FOR OSTEOSYNTHESIS DEVICE AND TOOL FOR SETTING SUCH IMPLANT	Utility - ORG	Spain	Issued	98914942.2
X0008/FR	IMPLANT FOR OSTEOSYNTHESIS DEVICE AND TOOL FOR SETTING SUCH IMPLANT	Utility - ORG	France	lssued	9703277
5X0008/GR	IMPLANT FOR OSTEOSYNTHESIS DEVICE AND TOOL FOR SETTING SUCH IMPLANT	Utility - ORG	Greece	lssued	98914942.2

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FILE #	TITLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION #
<u>5X0008/IT</u>	IMPLANT FOR OSTEOSYNTHESIS DEVICE AND TOOL FOR SETTING SUCH IMPLANT	Utility - ORG	itały	Issued	98914942.2
5X0008/JP	IMPLANT FOR OSTEOSYNTHESIS DEVICE AND TOOL FOR SETTING SUCH IMPLANT	Utility - ORG	Japan	issued	10-540205
5X0009/FR	Intervertebral osteosynthesis plate has anti-extraction cover for anchoring screws fitted to plate with guide permitting movement	Utility - ORG	France	Issued	9813224
X0010.01/FR	ANTERIOR OSTEOSYNTHESIS PLATE FOR LUMBAR VERTEBRAE OR SACRAL LUMBAR VERTEBRA AND INSTRUMENT FOR POSITIONING SAME	Utility - ORG	France	Issued	99949075.8
X0010/DE	Anterior osteosynthesis plate for lumbar or lumbar/sacral vertebrae and positioning instrument	Utility - ORG	Germany	issued	99949075.8
<u>\$X0010/EP</u>	ANTERIOR OSTEOSYNTHESIS PLATE FOR LUMBAR VERTEBRAE OR SACRAL LUMBAR VERTEBRA AND INSTRUMENT FOR POSITIONING SAME	Utility - ORG	European Patent Office	Issued	99949075.8
<u>x0010/ES</u>	Placa de osteosintesis anterior para vértebras lumbares o sacro lumbares e instrumento para la colocación en posición	Utility - ORG	Spain	Issued	99949075.8
5X0010/FR	Anterior osteosynthesis plate for lumbar or lumbar/sacral vertebrae and positioning instrument	Utility - ORG	France	lssued	98 13225
5X0010/GB	ANTERIOR OSTEOSYNTHESIS PLATE FOR LUMBAR VERTEBRAE OR SACRAL LUMBAR VERTEBRA AND INSTRUMENT FOR POSITIONING SAME	Utility - ORG	United Kingdom	Issued	99949075.8
5X0010/IT	Anterior osteosynthesis plate for lumbar or lumbar/sacrai vertebrae and positioning instrument	Utility - ORG	Italy	Issued	99949075.8
5X0011.01/FR	Intervertebral connecting device with axial and angular play	Utility - ORG	France	Issued	98420214.3
X0011/BE	ISOBAR	Utility - EPPAT	Belgium	Issued	98420214.3
X0011/CH	ISOBAR	Utility - ORG	Switzerland	issued	98420214.3
SX0011/DE	ISOBAR	Utility - ORG	Germany	Issued	98420214.3
SXOO11/EP	ISOBAR	Utility - ORG	European Patent Office	Issued	98420214.3
5X0011/ES	ISOBAR	Utility - ORG	Spain	Issued	98420214.3

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FILE #	TITLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION #
5X0011/FR	ISOBAR	Utility - ORG	France	Issued	9714831
SX0011/GB	ISOBAR	Utility - ORG	United Kingdom	Issued	98420214.3
5X0011/IT	ISOBAR	Utility - ORG	litaly	issued	98420214.3
SX0012.01/FR	INTERBODY VERTEBRAL IMPLANT WITH SAGITTAL	Utility - ORG	France	Issued	00901180.0
	INSERTION				
5X0012/DE	INTERBODY VERTEBRAL IMPLANT WITH SAGITTAL	Utility - EPPAT	Germany	issued	00901180.0
	INSERTION				
5X0012/EP	INTERBODY VERTEBRAL IMPLANT WITH SAGITTAL	Utility - ORG	European Patent Office	issued	00901180.0
	INSERTION				
X0012/ES	INTERBODY VERTEBRAL IMPLANT WITH SAGITTAL	Utility - EPPAT	Spain	Issued	00901180.0
	INSERTION				
<u>X0012/GB</u>	INTERBODY VERTEBRAL IMPLANT WITH SAGITTAL	Utility - ORG	United Kingdom	Issued	00901180.0
	INSERTION				
SX0012/IT	INTERBODY VERTEBRAL IMPLANT WITH SAGITTAL	Utility - ORG	litaly	Issued	00901180.0
	INSERTION				
X0014/0E	CAGE CB	Utility - EPPAT	Germany	Issued	00949674.6
XOD14/EP	ANATOMICAL INTERBODY IMPLANT	Utility - ORG	European Patent Office	Issued	00949674.6
5 <u>X0014/ES</u>	CAGE CB	Utility - EPPAT	Spain	Issued	00949674.6
5X0014/GB	CAGE CB	Utility - ORG	United Kingdom	issued	00949674.6
5X0014/IT	CAGE CB	Utility - ORG	Italy	issued	00949674.6
SX0015/BE	FIXATION PONT	Utility - ORG	Belgium	issued	01903979.1
<u>5X0015/EP</u>	INTERVERTEBRAL LINKING DEVICE WITH CONNECTING BAR	Utility - ORG	European Patent Office	issued	01903979.1
	FOR FIXING A LINKING ROD				
5X0015/FR	FIXATION PONT	Utility - ORG	France	Issued	01903979.1
X0016/AT	PROTHESE CERVICALE	Utility - EPPAT	Austria	Issued	01913926.0
<u>5X0016/BE</u>	PROTHESE CERVICALE	Utility - ORG	Belgium	Issued	01913926.0
5X001.6/CH	PROTHESE CERVICALE	Utility - ORG	Switzerland	Issued	01913926.0
5X0016/DE	PROTHESE CERVICALE	Utility - EPPAT	Germany	Issued	01913926.0
5X0016/EP	DISC PROSTHESIS FOR CERVICAL VERTEBRA	Utility - ORG	European Patent Office	Issued	01913926.0
X0016/ES	PROTHESE CERVICALE	Utility - ORG	Spain	Issued	01913926.0
X0016/FI	PROTHESE CERVICALE	Utility - ORG	Fisland	Issued	01913926.0
5X0016/FR	PROTHESE CERVICALE	Utility - ORG	France	issued	01913926.0
\$X0016/GB	PROTHESE CERVICALE	Utility - ORG	United Kingdom	Issued	01913926.0
SX0016/IT	PROTHESE CERVICALE	Utility - ORG	Italy	Issued	01913926.0
5X0016/LU	PROTHESE CERVICALE	Utility - ORG	Luxembourg	Issued	01913926.0

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FILE #	TITLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION #
SX0016/MC	PROTHESE CERVICALE	Utility - EPPAT	Monaco	Issued	01913926.0
SX0016/NL	PROTHESE CERVICALE	Utility - ORG	Netherlands	Issued	01913926.0
SX0016/PT	PROTHESE CERVICALE	Utility - ORG	Portugal	Issued	01913926.0
X0016/SE	PROTHESE CERVICALE	Utility - ORG	Sweden	Issued	01913926.0
5X0016/TR	PROTHESE CERVICALE	Utility - EPPAT	Turkey	Issued	01913925.0
X0017/DE	CAGE ANTERIEURE LOMBAIRE	Utility - EPPAT	Germany	Issued	01934094.2
X0017/EP	ANTERIOR LUMBAR INTERBODY IMPLANT	Utility - ORG	European Patent Office	Issued	01934094.2
X0017/ES	CAGE ANTERIEURE LOMBAIRE	Utility - ORG	Spain	Issued	01934094.2
X0017/GB	CAGE ANTERIEURE LOMBAIRE	Utility - ORG	United Kingdom	Issued	01934094.2
X0017/IT	CAGE ANTERIEURE LOMBAIRE	Utility - ORG	Italy	Issued	01934094.2
5X0018/DE	STABILISED INTERBODY FUSION SYSTEM FOR VERTEBRAE	Utility - EPPAT	Germany	lssued	027303270
X0018/EP	STABILISED INTERBODY FUSION SYSTEM FOR VERTEBRAE	Utility - ORG	European Patent Office	Issued	02730327.0
5X0019/DE	VIS POLYAXIALE A DOME	Utility - EPPAT	Germany	Issued	03750795.1
X0019/EP	BONE ANCHORING DEVICE WITH SPHERICAL ARTICULATION	Utility - ORG	European Patent Office	Issued	03750795.1
X0019/ES	VIS POLYAXIALE A DOME	Utility - EPPAT	Spain	Issued	03750795.1
X0019/G8	VIS POLYAXIALE A DOME	Utility - ORG	United Kingdom	Issued	03750795.1
x0019/IT	VIS POLYAXIALE A DOME	Utility - ORG	litaly	Issued	03750795.1
5X0020.01/FR	LIAISON TRANSVERSALE	Utility - ORG	France	Issued	03739521.7
X0020/BE	LIAISON TRANSVERSALE	Utility - ORG	Belgium	Issued	03739521.7
5X0020/CH	LIAISON TRANSVERSALE	Utility - ORG	Switzerland	Issued	03739521.7
X0020/DE	LIAISON TRANSVERSALE	Utility - EPPAT	Germany	Issued	03739521.7
5X0020/EP	CONNECTION SYSTEM BETWEEN A SPINAL ROD AND A TRANSVERSE BAR	Utility - ORG	European Patent Office	Issued	03739521.7
X0020/ES	LIAISON TRANSVERSALE	Utility - EPPAT	Spain	Issued	03739521.7
X0020/FR	LIAISON TRANSVERSALE	Utility - ORG	France	issued	0201626
X0020/GB	LIAISON TRANSVERSALE	Utility - ORG	United Kingdom	Issued	03739521.7
X0020/GR	UAISON TRANSVERSALE	Utility - ORG	Greece	issued	03739521.7
X0020/IT	LIAISON TRANSVERSALE	Utility - ORG	Italy	issued	03739521.7
X0020/TR	LIAISON TRANSVERSALE	Utility - EPPAT	Turkey	Issued	03739521.7
X0021/FR	IMPLANT DYNAMIQUE	Utility - ORG	France	Issued	0212726
5X0022/CH	ECROU ROTULE	Utility - ORG	Switzerland	Issued	03782531.2
SX0022/DE	ECROU ROTULE	Utility - EPPAT	Germany	Issued	03782531.2

FILE #	TITLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION #
SX0022/EP	CLAMPING NUT FOR OSTEOSYNTHESIS DEVICE	Utility - ORG	European Patent Office	Issued	03782531.2
5X0022/FR	ECROU ROTULE	Utility ORG	France	Issued	0214038
SX0022/GB	ECROU ROTULE	Utility - ORG	United Kingdom	Issued	03782531.2
5X0024/CH	IMPLANT DE CORPORECTOMIE	Utility - ORG	Switzerland	Issued	04708377.9
SX0024/DE	IMPLANT DE CORPORECTOMIE	Utility - EPPAT	Germany	Issued	04708377.9
SX0024/EP	VERTEBRAL REPLACEMENT DEVICE	Utility - ORG	European Patent Office	Issued	04708377.9
SX0024/ES	IMPLANT DE CORPORECTOMIE	Utility - EPPAT	Spain	Issued	04708377.9
SX0024/FR	IMPLANT DE CORPORECTOMIE	Utility - ORG	France	Issued	0301339
5X0024/G8	IMPLANT DE CORPORECTOMIE	Utility - ORG	United Kingdom	Issued	04708377.9
SX0024/IT	IMPLANT DE CORPORECTOMIE	Utility - ORG	italy	Issued	04708377.9
SX0025/FR	PROTHESE LOMBAIRE	Utility - ORG	France	Issued	0312144
<u>\$X0027/DE</u>	SECURISATION VIS-PLAQUE	Utility - EPPAT	Germany	issued	04767365.2
<u>SX0027/EP</u>	DEVICE FOR PREVENTING THE REMOVAL OF AN	Utility - ORG	European Patent Office	issued	04767365.2
	ANCHORING SCREW FOR AN OSTEOSYNTHETIC ELEMENT				
SX0027/ES	SECURISATION VIS-PLAQUE	Utility - EPPAT	Spain	issued	04767365.2
<u>\$X0027/GB</u>	SECURISATION VIS-PLAQUE	Utility ORG	United Kingdom	Issued	04767365.2
SX0027/IT	SECURISATION VIS-PLAQUE	Utility - ORG	ltaly	Issued	04767365.2
SX0027/JP	SECURISATION VIS-PLAQUE	Utility - NSPCT	Japan	Issued	2006-516298
SX0029/FR	TIGE D'OSTEOSYNTHESE DYNAMIQUE	Utility - ORG	France	Issued	0403284
<u>SX0030/EP</u>	INTERVERTEBRAL DISCAL PROSTHESIS	Utility - NSPCT	European Patent Office	Issued	05708206.7
SX0030/FR	PROTHESE DISCALE	Utility - ORG	France	Issued	0400087
SX0031/EP	DOUBLE-SHAPED INTERVERTEBRAL IMPLANT	Utility - ORG	European Patent Office	Issued	06794515.4
<u>5X0033/FR</u>	SURGICAL INSTRUMENT FOR REDUCING VERTEBRAL	Utility - ORG	France	Issued	FR0753250
	FRACTURE OF OSSEQUS BODY				

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FILE #	TIFLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION #
0106PCT/ZA	Interbody Spinal Stabilization Cage and Spinal Stabilization	Utility - NSPCT	South Africa	Pending	20020000791
	Method				
26786-509.001JP	RETRACTOR AND METHODS OF USE	Utility - NSPCT	Japan	Published	2008-534759
26786-519/EP	VARIABLE ANGLE SPINAL SCREW ASSEMBLY	Utility - NSPCT	European Patent Office	Published	04734306.6
26786-536EP	SYSTEMS AND METHODS FOR MANIPULATING AND/OR	Utility - NSPCT	European Patent Office	Published	07796252.0
	INSTALLING A PEDICLE SCREW				
26786-538PCT/EP	PLATING SYSTEMS FOR BONE FIXATION	Utility - NSPCT	European Patent Office	Published	07810088.0
26786-538PCT/JP	PLATING SYSTEMS FOR BONE FIXATION	Utility - NSPCT	Japan	Pending	2009-518312
26786-540JP	RETRACTOR	Utility - ORG	Japan	Published	2009-529268
26786- 565001/WO/JP	SYSTEMS AND METHODS FOR SPINAL FIXATION	Utility - NSPCT	Japan	Allowed	2010-531045
26786-570PCT/BR	METHOD AND DEVICE FOR DEPLOYING AN EXPANDABLE	Utility - NSPCT	Brazil	Pending	PI0914862-0
	IMPLANT INTO A VERTEBRAL BODY				
26786-570PCT/EP	METHOD AND DEVICE FOR DEPLOYING AN EXPANDABLE	Utility - ORG	European Patent Office	Published	09767104.4
	IMPLANT INTO A VERTEBRAL BODY				
26786- 570PCT/EP/DIV	METHOD AND DEVICE FOR DEPLOYING AN EXPANDABLE	Utility - DIV	European Patent Office	Published	12151615.7
	IMPLANT INTO A VERTEBRAL BODY				
26786-572N01EP	A BONE PLATE ASSEMBLY	Utility - NSPCT	European Patent Office	Published	09788941.4
26786-	SPINOUS PROCESS DEVICE AND METHOD OF USE	Utility - DIV	European Patent Office	Published	11190901.6
574N01/EP/DIV					
<u>26786-581N01BR</u>	PROCESSES AND SYSTEMS FOR LOADING MEDICAL	Utility - NSPCT	Brazil	Pending	PI0823152-4
	IMPLANTS WITH SIMULATIVE GROWTH AGENTS				
26786-581N01JP	PROCESSES AND SYSTEMS FOR LOADING MEDICAL	Utility - NSPCT	Japan	Allowed	2011-532051
	IMPLANTS WITH SIMULATIVE GROWTH AGENTS				
ALSPN.011PCT/BZ	EXPANDABLE SPINAL SUPPORT DEVICE WITH ATTACHABLE	Utility - NSPCT	Brazil	Pending	PI1015301-2
	MEMBERS AND METHODS OF USE				
ALSPN.011PCT/EP	EXPANDABLE SPINAL SUPPORT DEVICE WITH ATTACHABLE	Utility - NSPCT	European Patent Office	Published	10762319.1
	MEMBERS AND METHODS OF USE				
ALSPN.011PCT/JP	EXPANDABLE SPINAL SUPPORT DEVICE WITH ATTACHABLE	Utility - NSPCT	Japan	Published	2012-504787
	MEMBERS AND METHODS OF USE				
SG 10179/JP	INTERVERTEBRAL DISC PROSTHESIS	Utility - NSPCT	Japan	Pending	2001-566471
SG 10232/JP	CONNECTOR FOR VERTEBRAL ANCHORING SYSTEM	Utility - NSPCT	Japan	Pending	2003-546768

OUS Pending

FILE #	TITLE	MATTER TYPE	COUNTRY	STATUS	APPLICATION #
<u>SG 10300/CN</u>	DEVICE FOR IMMOBILIZING A CONNECTING ROD IN AN	Utility - NSPCT	China	Pending	200380109214.2
	OSSEOUS ANCHORING ELEMENT OF A RACHIDIAN IMPLANT				
STIM-N- 2100.00.EP/EP	ATTACHMENT DEVICE AND METHODS OF USE, PREPARATION AND TESTING	Utility - ORG	European Patent Office	Published	09251495.9
SX0004/JP	IMPLANT FOR OSTEOSYNTHESIS DEVICE WITH HOOK	Utility - NSPCT	Japan	Pending	10-550037
<u>SX0018/GB</u>	STABILISED INTERBODY FUSION SYSTEM FOR VERTEBRAE	Utility - EPPAT	United Kingdom	Pending	027303270
SX0018/IT	STABILISED INTERBOOY FUSION SYSTEM FOR VERTEBRAE	Utility - EPPAT	italy	Pending	027303270
<u>SX0021/EP</u>	DYNAMIC DEVICE FOR INTERVERTEBRAL UNKAGE WITH MULTIDIRECTIONAL CONTROLLED DISPLACEMENT	Utility - ORG	European Patent Office	Pending	03808758.1
SX0026/88	PROTHESE CERVICALE MONOBLOC	Utility - NSPCT	Brazil	Pending	PI0411768-9
SX0026/JP	DISC PROSTHESIS FOR CERVICAL VERTEBRAE WITH CONTROLLED DISPLACEMENT	Utility - NSPCT	Japan	Published	2006-516325
SX0027/88	SECURISATION VIS-PLAQUE	Utility - NSPCT	Brazil	Pending	PI0411513-9

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