

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7002967

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BRAINLAB AG	01/15/2020

RECEIVING PARTY DATA

Name:	SMITH & NEPHEW, INC.
Street Address:	1450 BROOKS ROAD
City:	MEMPHIS
State/Country:	TENNESSEE
Postal Code:	38116
Name:	SMITH & NEPHEW ORTHOPAEDICS AG
Street Address:	THEILERSTRASSE 1A
City:	ZUG
State/Country:	SWITZERLAND
Postal Code:	6300
Name:	SMITH & NEPHEW PTE. LIMITED
Street Address:	50 RAFFLES PLACE #32-01
City:	LAND TOWER
State/Country:	SINGAPORE
Postal Code:	048623

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17475998

CORRESPONDENCE DATA

Fax Number: (412)454-5060

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.

Phone: (412) 454-5000

Email: docketingpgh@troutman.com

Correspondent Name: TROUTMAN PEPPER HAMILTON SANDERS LLP

Address Line 1: 501 GRANT STREET

Address Line 2: SUITE 300

Address Line 4: PITTSBURGH, PENNSYLVANIA 15219-4429

PATENT

ATTORNEY DOCKET NUMBER:	105209.021541
NAME OF SUBMITTER:	CHARLES J. VRSCAK, JR.
SIGNATURE:	/Charles J. Vrscak, Jr./
DATE SIGNED:	11/02/2021

Total Attachments: 15

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CONFIRMATORY IP ASSIGNMENT AGREEMENT

THIS CONFIRMATORY ASSIGNMENT AGREEMENT ("Agreement") is dated 15 Jan 2020.

Parties

- (1) Brainlab AG, having its registered seat in Munich, registered with the commercial register (Handelsregister) of the local court (Amtsgericht) of Munich under no. HRB 135401, with registered business address at Olof-Palme-Straße 9, 81829 Munich, Germany ("**Assignor**").
- (2) Smith & Nephew, Inc., organised in the United States, State of Delaware with the registered address of CT Corporation, 1209, Orange Street, Wilmington, DE 19801, US; and
- (3) Smith & Nephew Orthopaedics AG, organised in Switzerland with the registered address of Oberneuhofstrasse 10D, 6340 Baar, Switzerland; and
- (4) Smith & Nephew Pte. Limited, organised in Singapore with the registered address of 50 Raffles Place, #32-01 Singapore Land Tower 048623, Singapore (together with the above Smith & Nephew entities, the "**Assignees**", and each Smith & Nephew entity an "**Assignee**").

BACKGROUND

- (A) On 11 March 2019, Smith & Nephew USD Limited, organised in the United Kingdom, with registered address of 14 Adam Street, London, United Kingdom, WC2N 6L ("**Parent**"), and Assignor entered into that certain Asset Sale and Purchase Agreement as amended by the First Amendment Agreement to the Asset Sale and Purchase Agreement ("**APA**") regarding, inter alia, the sale and purchase of the patents and patent applications listed in Schedule 1 hereto ("**Assigned Rights**") to the Assignees.
- (B) In connection with the consummation of the APA, on 31 May 2019, Assignor, Assignees and Parent have entered into an IP Transfer Agreement under which, all right, title and interest in and to the **Assigned Rights** was assigned and transferred and to the Assignees, for any and all countries where such Assigned Rights have legal effect, whereby for the avoidance of doubt, each Assignee obtained an undivided one-third (1/3) portion of the Assigned Rights.
- (C) The Assignees now wish to initiate and perfect the registrations of the Assigned Rights in the respective registers in their own names.

Agreed terms

NOW THEREFORE, Assignor and Assignees hereby agree as follows:

1. This Agreement shall solely serve as confirmation of the assignment of the Assigned Rights to the Assignees to be used before the respective intellectual property offices and authorities in order to perfect the

registration of the Assignees as the owners of the Assigned Rights and shall not provide any additional rights whatsoever to the Assignees.

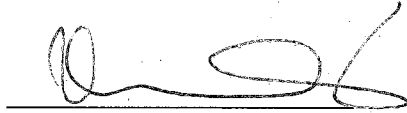
2. The Assignor hereby acknowledges and declares that Assignor has assigned and transferred all rights in and to the Assigned Rights to the Assignees.
3. The Assignor hereby acknowledges and confirms that the IP Transfer Agreement regarding the assignments and transfers of the Assigned Rights to Assignees shall remain in full force and effect.
4. The Assignor hereby gives consent to the registration of the Assignees as the owners of the Assigned Rights. The Assignor will provide any support to each Assignee, in particular sign any documents which is necessary for the process of the respective registration of each Assignee.
5. This Agreement shall be governed by, and construed in accordance with, German law, except where, with regard to certain Assigned Rights registered in countries other than Germany, local mandatory law prohibits such choice of law. The German rules on conflicts of law and the United Nations Convention on Contracts for the International Sales of Goods (CISG) are hereby excluded.
6. In the event of any disputes arising out of or in connection with this Agreement or its validity, the courts of Munich, Germany, shall have exclusive jurisdiction.
7. Any amendments, additions and waivers of this Agreement (including amendments to this Section 9) shall be valid only if made in written form, unless another form is required by mandatory law.
8. Should any of the provisions (in whole or in part) of this Agreement be or become invalid or unenforceable or should an unintended gap (*Regelungslücke*) emerge, then the remainder of this Agreement (including any affected provision to the extent the remaining contents of such provision are valid and enforceable in and of themselves) shall remain valid and enforceable. To the extent any provision is invalid or unenforceable, such valid provision which comes as close as possible to the economic purpose of the invalid or unenforceable provision shall be deemed agreed by the Parties, and any gap shall be deemed filled by a provision which the Parties, in good faith and after reasonably weighing their respective interests as prudent business people, would have agreed to if they had considered the subject matter not covered by this Agreement (*ergänzende Vertragsauslegung*).

In witness whereof, the Parties have caused this document to be executed and delivered as a Deed to take effect on and from the date set out above.

- Signatures on next page -

Signatures

Brainlab AG:



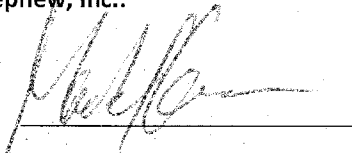
Datum/Date: December 19, 2019

Name: Stefan Wilkner

Position: President & CEO

Nov 19, 2019
SW

Smith & Nephew, Inc.:



Datum/Date:

1/20/2020

Name: Mark J. Gorman

Position: Assistant Secretary

Smith & Nephew Orthopaedics AG:



Datum/Date:

20 Jan 2020

Name: William Clemmens

Position: Senior Patent Counsel

Smith & Nephew Pte. Limited:

21 Jan 2020

Datum/Date:

David Charters

Name:

David Charters

Position:

Senior Counsel, IP

Schedule 1									
Case Reference	Brianlab Reference	Country	Internal Title	Status	Filing No.	Grant No.	Priority No.	Parent PCT	Inventors
PT-5393-DE-EPA		DE	Determination of Correspondence Object Pairs For Medical Navigation	Grant	07111415.1	502007001254.8			Halmerl, Martin; Grünschlager, Frank; Hepke, Markus; Fleig, Oliver; Haberl, Martin
PT-5393-EP-EPA	56 218 XV	EP	Determination of Correspondence Object Pairs For Medical Navigation	Grant	07111415.1	2008606			Halmerl, Martin; Grünschlager, Frank; Hepke, Markus; Fleig, Oliver; Haberl, Martin
PT-5393-FR-EPA		FR	Determination of Correspondence Object Pairs For Medical Navigation	Grant	07111415.1	2008606			Halmerl, Martin; Grünschlager, Frank; Hepke, Markus; Fleig, Oliver; Haberl, Martin
PT-5393-GB-EPA		GB	Determination of Correspondence Object Pairs For Medical Navigation	Grant	07111415.1	2008606			Halmerl, Martin; Grünschlager, Frank; Hepke, Markus; Fleig, Oliver; Haberl, Martin
PT-5393-US-NP	71 657 XV	USA	Determination of Correspondence Object Pairs For Medical Navigation	Grant	12/147734	8165366	EP07111415.1		Halmerl, Martin; Grünschlager, Frank; Hepke, Markus; Fleig, Oliver; Haberl, Martin
PT-5393-US-PSP		USA	Determination of Correspondence Object Pairs For Medical Navigation	Expired	60/950703				Halmerl, Martin; Grünschlager, Frank; Hepke, Markus; Fleig, Oliver; Haberl, Martin
PT-5395-DE-EPA		DE	Planning Support for Correcting Joint Elements	Grant	08162678.0	502008008638.2			Halmerl, Martin
PT-5395-EP-EPA	56 557 XV	EP	Planning Support for Correcting Joint Elements	Grant	08162678.0	2156805			Halmerl, Martin
PT-5395-FR-EPA		FR	Planning Support for Correcting Joint Elements	Grant	08162678.0	2156805			Halmerl, Martin
PT-5395-GB-EPA		GB	Planning Support for Correcting Joint Elements	Grant	08162678.0	2156805			Halmerl, Martin
PT-5395-US-NP	72 208 XV	USA	Planning Support for Correcting Joint Elements	Grant	12/542102	9572630	EP08162678.0		Halmerl, Martin
PT-5395-US-PSP		USA	Planning Support for Correcting Joint Elements	Expired	61/092204				Halmerl, Martin
PT-5397-DE-EPA		DE	Tool for Detecting Planes of a Bone and Assigned Data Processing Method	Grant	09159534.8	502009000894.5			Neubauer, Timo; Millahn, Manuel
PT-5397-EP-EPA	56 921 XV	EP	Tool for Detecting Planes of a Bone and Assigned Data Processing Method	Grant	09159534.8	2248484			Neubauer, Timo; Millahn, Manuel
PT-5397-FR-EPA		FR	Tool for Detecting Planes of a Bone and Assigned Data Processing Method	Grant	09159534.8	2248484			Neubauer, Timo; Millahn, Manuel
PT-5397-GB-EPA		GB	Tool for Detecting Planes of a Bone and Assigned Data Processing Method	Grant	09159534.8	2248484			Neubauer, Timo; Millahn, Manuel
PT-5397-US-NP	73 000 VI	USA	Tool for Detecting Planes of a Bone and Assigned Data Processing Method	Grant	12/774889	8469965	EP09159534.8		Neubauer, Timo; Millahn, Manuel
PT-5397-US-PSP		USA	Tool for Detecting Planes of a Bone and Assigned Data Processing Method	Expired	61/224242				Neubauer, Timo; Millahn, Manuel
PT-5398-DE-EPT		DE	Adjustable Endoprosthesis	Grant	13723784.8	602013028722.8			CARDAMONE, Philip; Millahn, Manuel; IMMERZ, Martin

Case Reference	Brianlab Reference	Country	Internal Title	Status	Filing No.	Grant No.	Priority No.	Parent PCT	Inventors
PT-5398-EP-EPT	58 329 EP XV	EP	Adjustable Endoprosthesis	Grant	13723784.8	2996634		PCT/EP13/060271	CARDAMONE, Philip; Millahn, Manuel; IMMERZ, Martin
PT-5398-FR-EPT		FR	Adjustable Endoprosthesis	Grant	13723784.8	2996634			CARDAMONE, Philip; Millahn, Manuel; IMMERZ, Martin
PT-5398-GB-EPT		GB	Adjustable Endoprosthesis	Grant	13723784.8	2996634			CARDAMONE, Philip; Millahn, Manuel; IMMERZ, Martin
PT-5398-US-PCT	77 461 XV	USA	Adjustable Endoprosthesis	Publication of application	14/891699			PCT/EP13/060271	CARDAMONE, Philip; Millahn, Manuel; IMMERZ, Martin
PT-5398-WO-PCT		WO	Adjustable Endoprosthesis	Gone National	PCT/EP13/060271			PCT/EP13/060271	CARDAMONE, Philip; Millahn, Manuel; IMMERZ, Martin
PT-5400-CH-EPT		CH	Method and Apparatus for Determining Implant Positions of Two Medical Implant Components forming a Joint	Grant	13814090.0	3094285			GÖTTE, Hubert
PT-5400-DE-EPT		DE	Method and Apparatus for Determining Implant Positions of Two Medical Implant Components forming a Joint	Grant	13814090.0	602013050565.9			GÖTTE, Hubert
PT-5400-EP-EPT	59 413 EP XV	EP	Method and Apparatus for Determining Implant Positions of Two Medical Implant Components forming a Joint	Grant	13814090.0	3094285		PCT/EP13/075945	GÖTTE, Hubert
PT-5400-FR-EPT		FR	Method and Apparatus for Determining Implant Positions of Two Medical Implant Components forming a Joint	Grant	13814090.0	3094285			GÖTTE, Hubert
PT-5400-GB-EPT		GB	Method and Apparatus for Determining Implant Positions of Two Medical Implant Components forming a Joint	Grant	13814090.0	3094285			GÖTTE, Hubert
PT-5400-US-CNT		USA	Method and Apparatus for Determining Implant Positions of Two Medical Implant Components forming a Joint	Local filing	15/034047				GÖTTE, Hubert
PT-5400-US-PCT	77 781 XV	USA	Method and Apparatus for Determining Implant Positions of Two Medical Implant Components forming a Joint	Grant	15/034047	10327848		PCT/EP13/075945	GÖTTE, Hubert
PT-5400-WO-PCT		WO	Method and Apparatus for Determining Implant Positions of Two Medical Implant Components forming a Joint	Gone National	PCT/EP13/075945			PCT/EP13/075945	GÖTTE, Hubert
PT-5401-DE-EPA		DE	Device and Method for Determining the Aperture Angle of a Joint	Grant	02021384.9	50200938.1			Tuma, Gregor; Schubert, Mario; Schaffrath, Claus
PT-5401-EP-EPA	53 949 XV	EP	Device and Method for Determining the Aperture Angle of a Joint	Grant	02021384.9	1402855			Tuma, Gregor; Schubert, Mario; Schaffrath, Claus
PT-5401-FR-EPA		FR	Device and Method for Determining the Aperture Angle of a Joint	Grant	02021384.9	1402855			Tuma, Gregor; Schubert, Mario; Schaffrath, Claus
PT-5401-US-CNT	73 373 XX	USA	Device and Method for Determining the Aperture Angle of a Joint	Grant	12/013234	8308663	EP02021384.9		Tuma, Gregor; Schubert, Mario; Schaffrath, Claus
PT-5401-US-CNT[2]		USA	Device and Method for Determining the Aperture Angle of a Joint	Abandoned	13/675569		EP02021384.9		Tuma, Gregor; Schubert, Mario; Schaffrath, Claus
PT-5401-US-NP		USA	Device and Method for Determining the Aperture Angle of a Joint	Abandoned	10/670177		EP02021384.9		Tuma, Gregor; Schubert, Mario; Schaffrath, Claus
PT-5401-US-PSP		USA	Device and Method for Determining the Aperture Angle of a Joint	Expired	60/440700				Tuma, Gregor; Schubert, Mario; Schaffrath, Claus
PT-5405-DE-EPA		DE	Artefact Elimination for Medical Technology Pelvic Registration with Tracked Pelvic Support Known to the System	Grant	06026291.2	502006014205.8			Wagner, Benjamin; Neubauer, Timo
PT-5405-EP-EPA	55 858 XV	EP	Artefact Elimination for Medical Technology Pelvic Registration with Tracked Pelvic Support Known to the System	Grant	06026291.2	1935342			Wagner, Benjamin; Neubauer, Timo

Case Reference	Brianlab Reference	Country	Internal Title	Status	Filing No.	Grant No.	Priority No.	Parent PCT	Inventors
PT-5405-FR-EPA		FR	Artefact Elimination for Medical Technology Pelvic Registration with Tracked Pelvic Support Known to the System	Grant	06026291.2	1935342			Wagner, Benjamin;Neubauer, Timo
PT-5405-GB-EPA		GB	Artefact Elimination for Medical Technology Pelvic Registration with Tracked Pelvic Support Known to the System	Grant	06026291.2	1935342			Wagner, Benjamin;Neubauer, Timo
PT-5405-US-NP	71 103 XV	USA	Artefact Elimination for Medical Technology Pelvic Registration with Tracked Pelvic Support Known to the System	Grant	11/958833	7995827	EP06026291.2		Wagner, Benjamin;Neubauer, Timo
PT-5405-US-PSP		USA	Artefact Elimination for Medical Technology Pelvic Registration with Tracked Pelvic Support Known to the System	Expired	60/882766				Wagner, Benjamin;Neubauer, Timo
PT-5406-DE-EPA		DE	Patient Lateral Positioning Device for Pelvic Treatments Comprising a Vacuum Mattress	Abandoned	07007844.9	502007007687.2			Gneiting, Sabine;Wagner, Benjamin;Schindler, Florian
PT-5406-EP-EPA	55 995 XV	EP	Patient Lateral Positioning Device for Pelvic Treatments Comprising a Vacuum Mattress	Abandoned	07007844.9	1982680			Gneiting, Sabine;Wagner, Benjamin;Schindler, Florian
PT-5406-FR-EPA		FR	Patient Lateral Positioning Device for Pelvic Treatments Comprising a Vacuum Mattress	Abandoned	07007844.9	1982680			Gneiting, Sabine;Wagner, Benjamin;Schindler, Florian
PT-5406-GB-EPA		GB	Patient Lateral Positioning Device for Pelvic Treatments Comprising a Vacuum Mattress	Abandoned	07007844.9	1982680			Gneiting, Sabine;Wagner, Benjamin;Schindler, Florian
PT-5406-US-NP	71 329 XV	USA	Patient Lateral Positioning Device for Pelvic Treatments Comprising a Vacuum Mattress	Grant	12/105554	8118029	EP07007844.9		Benjamin;Schindler, Florian
PT-5406-US-PSP		USA	Patient Lateral Positioning Device for Pelvic Treatments Comprising a Vacuum Mattress	Expired	60/917097				Gneiting, Sabine;Wagner, Benjamin;Schindler, Florian
PT-5407-DE-EPA		DE	Computer-Assisted Planning Method for Correcting Changes in the Shape of Joint Bones	Abandoned	07110358.4	2002796	60/951281		Tuma, Gregor;Schindler, Florian;Fricke, Marc;Haimerl, Martin
PT-5407-EP-EPA	56 120 VI	EP	Computer-Assisted Planning Method for Correcting Changes in the Shape of Joint Bones	Abandoned	07110358.4	2002796	60/951281		Tuma, Gregor;Schindler, Florian;Fricke, Marc;Haimerl, Martin
PT-5407-FR-EPA		FR	Computer-Assisted Planning Method for Correcting Changes in the Shape of Joint Bones	Abandoned	07110358.4	2002796	60/951281		Tuma, Gregor;Schindler, Florian;Fricke, Marc;Haimerl, Martin
PT-5407-GB-EPA		GB	Computer-Assisted Planning Method for Correcting Changes in the Shape of Joint Bones	Abandoned	07110358.4	2002796	60/951281		Tuma, Gregor;Schindler, Florian;Fricke, Marc;Haimerl, Martin
PT-5407-US-NP	71 532 XV	USA	Computer-assisted planning method for correcting changes in the shape of joint bones	Grant	12/138223	8152816	EP07110358.4		Tuma, Gregor;Schindler, Florian;Fricke, Marc;Haimerl, Martin
PT-5407-US-PSP		USA	Computer-assisted planning method for correcting changes in the shape of joint bones	Expired	60/951281				Tuma, Gregor;Schindler, Florian;Fricke, Marc;Haimerl, Martin
PT-5408-DE-EPA		DE	System for Navigation-Assisted Shoulder Operations and Navigation Method for Positioning Navigated Treatment Apparatuses with Respect to a Bone	Grant	08152941.4	502008007568.2			Neubauer, Timo;Fessler, Julia
PT-5408-EP-EPA	56 110 XV	EP	System for Navigation-Assisted Shoulder Operations and Navigation Method for Positioning Navigated Treatment Apparatuses with Respect to a Bone	Grant	08152941.4	2103270			Neubauer, Timo;Fessler, Julia
PT-5408-FR-EPA		FR	System for Navigation-Assisted Shoulder Operations and Navigation Method for Positioning Navigated Treatment Apparatuses with Respect to a Bone	Grant	08152941.4	2103270			Neubauer, Timo;Fessler, Julia

Case Reference	Brianlab Reference	Country	Internal Title	Status	Filing No.	Grant No.	Priority No.	Parent PCT	Inventors
PT-5408-GB-EPA		GB	System for Navigation-Assisted Shoulder Operations and Navigation Method for Positioning Navigated Treatment Apparatuses with Respect to a Bone	Grant	08152941.4	2103270			Neubauer, Timo; Fessler, Julia
PT-5408-US-NP	71 518 XV	USA	System for Navigation-Assisted Shoulder Operations and Navigation Method for Positioning Navigated Treatment Apparatuses with Respect to a Bone	Grant	12/404360	8277454	EP08152941.4		Neubauer, Timo; Fessler, Julia
PT-5408-US-PSP		USA	System for Navigation-Assisted Shoulder Operations and Navigation Method for Positioning Navigated Treatment Apparatuses with Respect to a Bone	Expired	61/037878				Neubauer, Timo; Fessler, Julia
PT-5412-DE-EPA		DE	Joint Reconstruction Plan with Model Data	Grant	08156279.5	502008008359.6			Haimerl, Martin; Schubert, Mario
PT-5412-EP-EPA	56 556 XV	EP	Joint Reconstruction Plan with Model Data	Grant	08156279.5	2119409			Haimerl, Martin; Schubert, Mario
PT-5412-FR-EPA		FR	Joint Reconstruction Plan with Model Data	Grant	08156279.5	2119409			Haimerl, Martin; Schubert, Mario
PT-5412-GB-EPA		GB	Joint Reconstruction Plan with Model Data	Grant	08156279.5	2119409			Haimerl, Martin; Schubert, Mario
PT-5412-US-NP	72 207 XV	USA	Joint Reconstruction Planning Using Model Data	Grant	12/433912	8594397	EP08156279.5		Haimerl, Martin; Schubert, Mario
PT-5412-US-PSP		USA	Joint Reconstruction Plan with Model Data	Expired	61/056882				Haimerl, Martin; Schubert, Mario
PT-5413-EP-EPT	58 125 EP XV	EP	SYSTEM AND COMPUTER PROGRAM FOR POSITIONING AN IMPLANT	Publication of application	11725473.0			PCT/EP11/060101	MÜLLER, Heiko; Schubert, Mario; Haimerl, Martin
PT-5413-US-PCT	76 693 XX	USA	Method, System And Device For Positioning An Implant	Grant	14/125722	9949665		PCT/EP11/060101	MÜLLER, Heiko; Schubert, Mario; Haimerl, Martin
PT-5413-WO-PCT		WO	Method, System And Device For Positioning An Implant	Gone National	PCT/EP11/060101			PCT/EP11/060101	MÜLLER, Heiko; Schubert, Mario; Haimerl, Martin
PT-5414-DE-EPT		DE	METHOD AND DEVICE FOR DETERMINING THE ORIENTATION OF A CO-ORDINATE SYSTEM OF AN ANATOMICAL OBJECT IN A GLOBAL CO-ORDINATE SYSTEM	Grant	13715186.6	602013018552.2			Schubert, Mario; Wegner, Melanie; KLING, Sabine
PT-5414-DE-EPT[2]		DE	Method and Apparatus for Determining a Leg Length Difference and a Leg Offset	Grant	13762862.4	602013016207.7	PCT/EP13/057024		Schubert, Mario; Wegner, Melanie; KLING, Sabine; POITZSCH, Luise
PT-5414-EP-EPT	59 179 EP XV	EP	METHOD AND DEVICE FOR DETERMINING THE ORIENTATION OF A CO-ORDINATE SYSTEM OF AN ANATOMICAL OBJECT IN A GLOBAL CO-ORDINATE SYSTEM	Grant	13715186.6	2981943		PCT/EP13/057024	Schubert, Mario; Wegner, Melanie; KLING, Sabine
PT-5414-EP-EPT[2]	59 198 EP XV	EP	Method and Apparatus for Determining Differences in Geometry of Subject Element Using Landmarks	Grant	13762862.4	2981203	PCT/EP13/057024	PCT/EP13/069358	Schubert, Mario; Wegner, Melanie; KLING, Sabine; POITZSCH, Luise
PT-5414-FR-EPT		FR	METHOD AND DEVICE FOR DETERMINING THE ORIENTATION OF A CO-ORDINATE SYSTEM OF AN ANATOMICAL OBJECT IN A GLOBAL CO-ORDINATE SYSTEM	Grant	13715186.6	2981943			Schubert, Mario; Wegner, Melanie; KLING, Sabine
PT-5414-FR-EPT[2]		FR	Method and Apparatus for Determining a Leg Length Difference and a Leg Offset	Grant	13762862.4	2981203	PCT/EP13/057024		Schubert, Mario; Wegner, Melanie; KLING, Sabine; POITZSCH, Luise

Case Reference	Brianlab Reference	Country	Internal Title	Status	Filing No.	Grant No.	Priority No.	Parent PCT	Inventors
PT-5414-GB-EPT		GB	METHOD AND DEVICE FOR DETERMINING THE ORIENTATION OF A CO-ORDINATE SYSTEM OF AN ANATOMICAL OBJECT IN A GLOBAL CO-ORDINATE SYSTEM	Grant	13715186.6	2981943			Schubert, Mario; Wegner, Melanie; KLING, Sabine
PT-5414-GB-EPT[2]		GB	Method and Apparatus for Determining a Leg Length Difference and a Leg Offset	Grant	13762862.4	2981203	PCT/EP13/057024		Schubert, Mario; Wegner, Melanie; KLING, Sabine
PT-5414-US-CNT[2]	77 347 P WO US 2 XV	USA	Method and Apparatus for Determining Differences in Geometry of Subject Element Using Landmarks	Grant	15/617793	10244967	PCT/EP13/057024		Sabine; POITZSCH, Luise; Schubert, Mario; Wegner, Melanie; KLING, Sabine; POITZSCH, Luise
PT-5414-US-PCT	76 203 XV	USA	METHOD AND DEVICE FOR DETERMINING THE ORIENTATION OF A CO-ORDINATE SYSTEM OF AN ANATOMICAL OBJECT IN A GLOBAL CO-ORDINATE SYSTEM	Grant	14/766471	9642560		PCT/EP13/057024	Schubert, Mario; Wegner, Melanie; KLING, Sabine
PT-5414-US-PCT[2]	77 347 XV	USA	Method and Apparatus for Determining a Leg Length Difference and a Leg Offset	Abandoned	14/773553		PCT/EP13/057024	PCT/EP13/069358	Schubert, Mario; Wegner, Melanie; KLING, Sabine; POITZSCH, Luise
PT-5414-WO-PCT		WO	METHOD AND DEVICE FOR DETERMINING THE ORIENTATION OF A CO-ORDINATE SYSTEM OF AN ANATOMICAL OBJECT IN A GLOBAL CO-ORDINATE SYSTEM	Gone National	PCT/EP13/057024			PCT/EP13/057024	Schubert, Mario; Wegner, Melanie; KLING, Sabine
PT-5414-WO-PCT[2]		WO	Method and Apparatus for Determining a Leg Length Difference and a Leg Offset	Gone National	PCT/EP13/069358				Schubert, Mario; Wegner, Melanie; KLING, Sabine
PT-5415-DE-EPA		DE	Determining Shaft and Femur Neck Axes and Three-Dimensional Reconstruction	Grant	05003534.4	502005006199.3			Tuma, Gregor; Schubert, Mario; Grünschläger, Frank; Haimed, Martin
PT-5415-EP-EPA	54 939 XV	EP	Determining Shaft and Femur Neck Axes and Three-Dimensional Reconstruction	Grant	05003534.4	1693798			Tuma, Gregor; Schubert, Mario; Grünschläger, Frank; Haimed, Martin
PT-5415-FR-EPA		FR	Determining Shaft and Femur Neck Axes and Three-Dimensional Reconstruction	Grant	05003534.4	1693798			Tuma, Gregor; Schubert, Mario; Grünschläger, Frank; Haimed, Martin
PT-5415-US-NP	49 400 XV	USA	Determining Shaft and Femur Neck Axes and Three-Dimensional Reconstruction	Grant	11/356737	8463004	EP05003534.4		Tuma, Gregor; Schubert, Mario; Grünschläger, Frank; Haimed, Martin
PT-5415-US-PSP		USA	Determining Shaft and Femur Neck Axes and Three-Dimensional Reconstruction	Expired	60/656953				Tuma, Gregor; Schubert, Mario; Grünschläger, Frank; Haimed, Martin
PT-5416-EP-EPA	55 453 VI	EP	Method and System for Determining the Location of a Medical Instrument Relative to a Body Structure	Refused	06016809.3				Tuma, Gregor
PT-5416-US-NP	70 218 XV	USA	Method and System for Determining the Location of a Medical Instrument Relative to a Body Structure	Grant	11/832731	7962196	EP06016809.3		Tuma, Gregor
PT-5416-US-PSP		USA	Method and System for Determining the Location of a Medical Instrument Relative to a Body Structure	Expired	60/822713				Tuma, Gregor
PT-5417-EP-EPT	60 566 P WO EP XV	EP	Method for Registering Articulated Anatomical Structures	Publication of application	15/729363.0			PCT/EP15/062008	DOHMEN, Lars; Schubert, Mario; WIEDENMANN, Anna
PT-5417-US-PCT	60 566 P WO US XV	USA	Method for Registering Articulated Anatomical Structures	Publication of application	15/576172			PCT/EP15/062008	DOHMEN, Lars; Schubert, Mario; WIEDENMANN, Anna
PT-5417-WO-PCT		WO	Method for Registering Articulated Anatomical Structures	Gone National	PCT/EP15/062008			PCT/EP15/062008	DOHMEN, Lars; Schubert, Mario; WIEDENMANN, Anna

Schedule 1

Case Reference	Brianlab Reference	Country	Internal Title	Status	Filing No.	Grant No.	Priority No.	Parent PCT	Inventors
PT-5418-DE-EPA		DE	Device, System and Method for Positioning or Preparing the Positioning of a Medical Operating Instrument, Especially an Incision Block or a Cutting Block or a Ligament Balancing Device	Grant	07102301.4	602007038055.3			Plassky, Norman; Millahn, Manuel; Neubauer, Timo; Warkentine, Blaine
PT-5418-EP-EPA	55 894 XX	EP	Device, System and Method for Positioning or Preparing the Positioning of a Medical Operating Instrument, Especially an Incision Block or a Cutting Block or a Ligament Balancing Device	Grant	07102301.4	1958575			Plassky, Norman; Millahn, Manuel; Neubauer, Timo; Warkentine, Blaine
PT-5418-FR-EPA		FR	Device, System and Method for Positioning or Preparing the Positioning of a Medical Operating Instrument, Especially an Incision Block or a Cutting Block or a Ligament Balancing Device	Grant	07102301.4	1958575			Plassky, Norman; Millahn, Manuel; Neubauer, Timo; Warkentine, Blaine
PT-5418-US-NP	71 305 XV	USA	Device, System and Method for Positioning or Preparing the Positioning of a Medical Operating Instrument, Especially an Incision Block or a Cutting Block or a Ligament Balancing Device	Grant	12/030302	8945132	EP07102301.4		Plassky, Norman; Millahn, Manuel; Neubauer, Timo; Warkentine, Blaine
PT-5418-US-PSP		USA	Device, System and Method for Positioning or Preparing the Positioning of a Medical Operating Instrument, Especially an Incision Block or a Cutting Block or a Ligament Balancing Device	Expired	60/908525				Plassky, Norman; Millahn, Manuel; Neubauer, Timo; Warkentine, Blaine
PT-5419-DE-EPT		DE	Malleolar Registration Clamp and Malleolar Registration Method	Grant	09781354.7	602009035001.3			Neubauer, Timo; Millahn, Manuel; Plassky, Norman
PT-5419-EP-EPT	56 870 EP XV	EP	Malleolar Registration Clamp and Malleolar Registration Method	Grant	09781354.7	2459097		PCT/EP09/059946	Neubauer, Timo; Millahn, Manuel; Plassky, Norman
PT-5419-FR-EPT		FR	Malleolar Registration Clamp and Malleolar Registration Method	Grant	09781354.7	2459097			Neubauer, Timo; Millahn, Manuel; Plassky, Norman
PT-5419-GB-EPT		GB	Malleolar Registration Clamp and Malleolar Registration Method	Grant	09781354.7	2459097			Neubauer, Timo; Millahn, Manuel; Plassky, Norman
PT-5419-US-PCT	75 440 VI	USA	Malleolar Registration Clamp and Malleolar Registration Method	Grant	13/387138	9271802		PCT/EP09/059946	Neubauer, Timo; Millahn, Manuel; Plassky, Norman
PT-5419-WO-PCT		WO	Malleolar Registration Clamp and Malleolar Registration Method	Gone National	PCT/EP09/059946			PCT/EP09/059946	Neubauer, Timo; Millahn, Manuel; Plassky, Norman
PT-5420-EP-EPT	58 420 EP XV	EP	Method for Determining Contact Position Parameters of a Joint Connecting Two Bones	Publication of application	11804978.2			PCT/EP11/072323	GÖTTE, Hubert
PT-5420-EP-EPT[2]	58 421	EP	Method for Determining Contact Position Parameters of a Joint Connecting Two Bones	Abandoned	11796980.8			PCT/EP11/072324	GÖTTE, Hubert
PT-5420-EP-EPT[3]	58 417	EP	Acquiring Contact Position Parameters and Detecting Contact of a Joint	Abandoned	12729552.5		PCT/EP11/072323	PCT/EP12/061763	GÖTTE, Hubert
PT-5420-US-PCT	76 849 XV	USA	Method for Determining Contact Position Parameters of a Joint Connecting Two Bones	Grant	14/363040	9852268		PCT/EP11/072323	GÖTTE, Hubert
PT-5420-US-PCT[2]	76 857	USA	Method for Determining Contact Position Parameters of a Joint Connecting Two Bones	Abandoned	14/363347			PCT/EP11/072324	GÖTTE, Hubert
PT-5420-US-PCT[3]	76 839	USA	Acquiring Contact Position Parameters and Detecting Contact of a Joint	Abandoned	14/363369		PCT/EP11/072323	PCT/EP12/061763	GÖTTE, Hubert

Case Reference	Brianlab Reference	Country	Internal Title	Status	Filing No.	Grant No.	Priority No.	Parent PCT	Inventors
PT-5420-WO-PCT		WO	Method for Determining Contact Position Parameters of a Joint Connecting Two Bones	Gone National	PCT/EP11/072323			PCT/EP11/072323	GÖTTE, Hubert
PT-5420-WO-PCT[2]		WO	Method for Determining Contact Position Parameters of a Joint Connecting Two Bones	Gone National	PCT/EP11/072324			PCT/EP11/072324	GÖTTE, Hubert
PT-5420-WO-PCT[3]		WO	Acquiring Contact Position Parameters and Detecting Contact of a Joint	Gone National	PCT/EP12/061763		PCT/EP11/072323	PCT/EP12/061763	GÖTTE, Hubert
PT-5421-DE-EPT		DE	Method for Determining Contact Position Parameters of a Joint Connecting Two Bones	Grant	12729551.7	602012014691.5	PCT/EP11/072323		GÖTTE, Hubert; DOHMEN, Lars
PT-5421-EP-EPT	58 418 EP XV	EP	Method for Determining Contact Position Parameters of a Joint Connecting Two Bones	Grant	12729551.7	2787887	PCT/EP11/072323	PCT/EP12/061757	GÖTTE, Hubert; DOHMEN, Lars
PT-5421-FR-EPT		FR	Method for Determining Contact Position Parameters of a Joint Connecting Two Bones	Grant	12729551.7	2787887	PCT/EP11/072323		GÖTTE, Hubert; DOHMEN, Lars
PT-5421-GB-EPT		GB	Method for Determining Contact Position Parameters of a Joint Connecting Two Bones	Grant	12729551.7	2787887	PCT/EP11/072323		GÖTTE, Hubert; DOHMEN, Lars
PT-5421-US-CNT	76 776 P WO US 2 XV	USA	Method for Determining Contact Position Parameters of a Joint Connecting Two Bones	Grant	15/395247	10163270	PCT/EP11/072323		GÖTTE, Hubert; DOHMEN, Lars
PT-5421-US-PCT	76 776 P WO US XV	USA	Method for Determining Contact Position Parameters of a Joint Connecting Two Bones	Grant	14/362988	9865095	PCT/EP11/072323	PCT/EP12/061757	GÖTTE, Hubert; DOHMEN, Lars
PT-5421-WO-PCT		WO	Method for Determining Contact Position Parameters of a Joint Connecting Two Bones	Gone National	PCT/EP12/061757		PCT/EP11/072323	PCT/EP12/061757	GÖTTE, Hubert; DOHMEN, Lars
PT-5422-DE-EPT		DE	Method for Enabling Medical Navigation with Minimised Invasiveness	Grant	10707887.5	602010034054.6			Millahn, Manuel; Bracke, Bert; BRACK, Christian
PT-5422-EP-EPT	57 498 EP XV	EP	Method for Enabling Medical Navigation with Minimised Invasiveness	Grant	10707887.5	2542176		PCT/EP10/052679	Millahn, Manuel; Bracke, Bert; BRACK, Christian
PT-5422-FR-EPT		FR	Method for Enabling Medical Navigation with Minimised Invasiveness	Grant	10707887.5	2542176			Millahn, Manuel; Bracke, Bert; BRACK, Christian
PT-5422-GB-EPT		GB	Method for Enabling Medical Navigation with Minimised Invasiveness	Grant	10707887.5	2542176			Millahn, Manuel; Bracke, Bert; BRACK, Christian
PT-5422-US-PCT	75 912 XV	USA	Method for Enabling Medical Navigation with Minimised Invasiveness	Publication of application	13/582077			PCT/EP10/052679	Millahn, Manuel; Bracke, Bert; BRACK, Christian
PT-5422-WO-PCT		WO	Method for Enabling Medical Navigation with Minimised Invasiveness	Gone National	PCT/EP10/052679			PCT/EP10/052679	Millahn, Manuel; Bracke, Bert; BRACK, Christian
PT-5423-DE-EPA		DE	Method and System for the Navigation-Assisted Positioning of Elements	Grant	00120229.0	50006264.1			IMMERZ, Martin
PT-5423-EP-EPA	53 192 XV	EP	Method and System for the Navigation-Assisted Positioning of Elements	Grant	00120229.0	1190675			IMMERZ, Martin
PT-5423-FR-EPA		FR	Method and System for the Navigation-Assisted Positioning of Elements	Grant	00120229.0	1190675			IMMERZ, Martin
PT-5423-US-NP	45 674 XV	USA	Method and System for the Navigation-Assisted Positioning of Elements	Grant	09/808737	6947783	EP00120229.0		IMMERZ, Martin
PT-5424-DE-EPA		DE	Method and Device for Registering a Femoral Implant	Grant	02024596.5	50211647.1			Tuma, Gregor; Schubert, Mario; Drumm, Peter; Schaffrath, Claus

Case Reference	Brianlab Reference	Country	Internal Title	Status	Filing No.	Grant No.	Priority No.	Parent PCT	Inventors
PT-5424-EP-EPA	53 934 XV	EP	Method and Device for Registering a Femoral Implant	Grant	02024596.5	1417941			Tuma, Gregor; Schubert, Mario; Drumm, Peter; Schaffrath, Claus
PT-5424-FR-EPA		FR	Method and Device for Registering a Femoral Implant	Grant	02024596.5	1417941			Tuma, Gregor; Schubert, Mario; Drumm, Peter; Schaffrath, Claus
PT-5424-US-NP	47 317 XV	USA	Method and Device for Registering a Femur Implant	Grant	10/701367	8231554	EP02024596.5		Tuma, Gregor; Schubert, Mario; Drumm, Peter; Schaffrath, Claus
PT-5424-US-PSP		USA	Method and Device for Registering a Femoral Implant	Expired	60/440701				Tuma, Gregor; Schubert, Peter; Schaffrath, Claus
PT-5425-DE-EPA		DE	Navigated Placement Of Pelvic Implant Based On Combined Anteversion By Applying Ranawat's Sign Or Via Arithmetic Formula	Grant	08150634.7	602008015979.5	11/752105		Tuma, Gregor; Schubert, Mario; Drumm, Peter; Schaffrath, Claus
PT-5425-EP-EPA	56 255 XV	EP	Navigated Placement Of Pelvic Implant Based On Combined Anteversion By Applying Ranawat's Sign Or Via Arithmetic Formula	Grant	08150634.7	1994914	11/752105		Warkentine, Blaine; MÜLLER, Heiko
PT-5425-FR-EPA		FR	Navigated Placement Of Pelvic Implant Based On Combined Anteversion By Applying Ranawat's Sign Or Via Arithmetic Formula	Grant	08150634.7	1994914	11/752105		Warkentine, Blaine; MÜLLER, Heiko
PT-5425-GB-EPA		GB	Navigated Placement Of Pelvic Implant Based On Combined Anteversion By Applying Ranawat's Sign Or Via Arithmetic Formula	Grant	08150634.7	1994914	11/752105		Warkentine, Blaine; MÜLLER, Heiko
PT-5425-US-NP	71 560 XV	USA	Navigated Placement Of Pelvic Implant Based On Combined Anteversion By Applying Ranawat's Sign Or Via Arithmetic Formula	Grant	11/752105	9044345			Warkentine, Blaine; MÜLLER, Heiko
PT-5427-DE-EPT[2]		DE	Determining A Plane Of An Anatomical Body Part	Grant	10740671.2	602010059946.9	PCT/EP09/061623		Halmerl, Martin; Schubert, Mario; Gnelting, Sabine; Wegner, Melanie
PT-5427-EP-EPT		EP	Determining A Plane Of An Anatomical Body Part	Abandoned	09782758.8			PCT/EP09/061623	Halmerl, Martin; Schubert, Mario; Gnelting, Sabine
PT-5427-EP-EPT[2]	57 700 EP XV	EP	Determining A Plane Of An Anatomical Body Part	Grant	10740671.2	2475301	PCT/EP09/061623		Halmerl, Martin; Schubert, Mario; Gnelting, Sabine
PT-5427-FR-EPT[2]		FR	Determining A Plane Of An Anatomical Body Part	Grant	10740671.2	2475301	PCT/EP09/061623		Halmerl, Martin; Schubert, Mario; Gnelting, Sabine; Wegner, Melanie
PT-5427-US-PCT	75 496 XV	USA	Determining A Plane Of An Anatomical Body Part	Grant	13/394612	9370317		PCT/EP09/061623	Halmerl, Martin; Schubert, Mario; KLING, Sabine
PT-5427-US-PCT[2]		USA	Determining A Plane Of An Anatomical Body Part	Abandoned	13/394465		PCT/EP09/061623		Halmerl, Martin; Schubert, Mario; Wegner, Melanie
PT-5427-WO-PCT		WO	Determining A Plane Of An Anatomical Body Part	Gone National	PCT/EP09/061623			PCT/EP09/061623	Halmerl, Martin; Schubert, Mario; KLING, Sabine
PT-5427-WO-PCT[2]		WO	Determining A Plane Of An Anatomical Body Part	Gone National	PCT/EP09/061624		PCT/EP09/061623		Halmerl, Martin; Schubert, Mario; Gnelting, Sabine

Case Reference	Brianlab Reference	Country	Internal Title	Status	Filing No.	Grant No.	Priority No.	Parent PCT	Inventors
PT-5428-CH-EPT		CH	Method For Planning The Positioning Of A Ball Joint Prosthesis	Grant	11700663.5	2665434			Haimerl, Martin;DOHMEN, Lars;Wegner, Melanie;Gneltling, Sabine
PT-5428-DE-EPT		DE	Method For Planning The Positioning Of A Ball Joint Prosthesis	Grant	11700663.5	602011040112.2			Haimerl, Martin;DOHMEN, Lars;Wegner, Melanie;Gneltling, Sabine
PT-5428-EP-EPT	57 925 EP XV	EP	Method For Planning The Positioning Of A Ball Joint Prosthesis	Grant	11700663.5	2665434		PCT/EP11/050735	Haimerl, Martin;DOHMEN, Lars;Wegner, Melanie;Gneltling, Sabine
PT-5428-FR-EPT		FR	Method For Planning The Positioning Of A Ball Joint Prosthesis	Grant	11700663.5	2665434			Haimerl, Martin;DOHMEN, Lars;Wegner, Melanie;Gneltling, Sabine
PT-5428-US-PCT	79 415 XV	USA	Method For Planning The Positioning Of A Ball Joint Prosthesis	Grant	13/992391	9093375		PCT/EP11/050735	Haimerl, Martin;DOHMEN, Lars;Wegner, Melanie;Gneltling, Sabine
PT-5428-WO-PCT		WO	Method For Planning The Positioning Of A Ball Joint Prosthesis	Gone National	PCT/EP11/050735			PCT/EP11/050735	Haimerl, Martin;DOHMEN, Lars;Wegner, Melanie;Gneltling, Sabine
PT-5429-DE-EPT		DE	Method For Planning The Positioning Of A Ball Joint Prosthesis	Grant	11701645.1	602011035667.4			Haimerl, Martin;DOHMEN, Lars;Wegner, Melanie;Gneltling, Sabine
PT-5429-EP-EPT	57 933 EP XV	EP	Method For Planning The Positioning Of A Ball Joint Prosthesis	Grant	11701645.1	2665435		PCT/EP11/050736	Haimerl, Martin;DOHMEN, Lars;Wegner, Melanie;Gneltling, Sabine
PT-5429-FR-EPT		FR	Method For Planning The Positioning Of A Ball Joint Prosthesis	Grant	11701645.1	2665435			Haimerl, Martin;DOHMEN, Lars;Wegner, Melanie;Gneltling, Sabine
PT-5429-GB-EPT		GB	Method For Planning The Positioning Of A Ball Joint Prosthesis	Grant	11701645.1	2665435			Haimerl, Martin;DOHMEN, Lars;Wegner, Melanie;Gneltling, Sabine
PT-5429-US-PCT	76 416 XV	USA	Method For Planning The Positioning Of A Ball Joint Prosthesis	Grant	13/997388	9713539		PCT/EP11/050736	Haimerl, Martin;DOHMEN, Lars;Wegner, Melanie;Gneltling, Sabine
PT-5429-WO-PCT		WO	Method For Planning The Positioning Of A Ball Joint Prosthesis	Gone National	PCT/EP11/050736			PCT/EP11/050736	Haimerl, Martin;DOHMEN, Lars;Wegner, Melanie;Gneltling, Sabine
PT-5430-AU-PCT	60 564 P WO AU XV	AU	Determination of an Implant Orientation Relative to a Bone	Grant	2015394606	2015394606		PCT/EP15/060202	DOHMEN, Lars;Schubert, Mario;WIEDENMANN, Anna
PT-5430-DE-EPT		DE	Determination of an Implant Orientation Relative to a Bone	Grant	15726010.0	602015025357.4			DOHMEN, Lars;Schubert, Mario;WIEDENMANN, Anna
PT-5430-EP-EPT	60 564 P WO EP XV	EP	Determination of an Implant Orientation Relative to a Bone	Grant	15726010.0	3294176		PCT/EP15/060202	DOHMEN, Lars;Schubert, Mario;WIEDENMANN, Anna
PT-5430-FR-EPT		FR	Determination of an Implant Orientation Relative to a Bone	Grant	15726010.0	3294176			DOHMEN, Lars;Schubert, Mario;WIEDENMANN, Anna
PT-5430-GB-EPT		GB	Determination of an Implant Orientation Relative to a Bone	Grant	15726010.0	3294176			DOHMEN, Lars;Schubert, Mario;WIEDENMANN, Anna
PT-5430-US-PCT	60 564 P WO US XV	USA	Determination of an Implant Orientation Relative to a Bone	Grant	15/516534	10231785		PCT/EP15/060202	DOHMEN, Lars;Schubert, Mario;WIEDENMANN, Anna
PT-5430-WO-PCT		WO	Determination of an Implant Orientation Relative to a Bone	Gone National	PCT/EP15/060202			PCT/EP15/060202	DOHMEN, Lars;Schubert, Mario;WIEDENMANN, Anna
PT-5431-AU-PCT	60 565 P WO AU XV	AU	Method and Apparatus for Judging Implant Orientation Data	Grant	2015394605	2015394605		PCT/EP15/060195	DOHMEN, Lars;Schubert, Mario;WIEDENMANN, Anna
PT-5431-DE-EPT		DE	Method and Apparatus for Judging Implant Orientation Data	Grant	15721697.9	602015025812.6			DOHMEN, Lars;Schubert, Mario;WIEDENMANN, Anna

Case Reference	Brianlab Reference	Country	Internal Title	Status	Filing No.	Grant No.	Priority No.	Parent PCT	Inventors
PT-5431-EP-EPT	60 565 P WO EP XV	EP	Method and Apparatus for Judging Implant Orientation Data	Grant	15721697.9	3294177		PCT/EP15/060195	DOHMEN, Lars; Schubert, Mario; WIEDENMANN, Anna
PT-5431-FR-EPT		FR	Method and Apparatus for Judging Implant Orientation Data	Grant	15721697.9	3294177			DOHMEN, Lars; Schubert, Mario; WIEDENMANN, Anna
PT-5431-GB-EPT		GB	Method and Apparatus for Judging Implant Orientation Data	Grant	15721697.9	3294177			DOHMEN, Lars; Schubert, Mario; WIEDENMANN, Anna
PT-5431-US-PCT	60 565 P WO US XV	USA	Method and Apparatus for Judging Implant Orientation Data	Publication of application	15/508764			PCT/EP15/060195	DOHMEN, Lars; Schubert, Mario; WIEDENMANN, Anna
PT-5431-WO-PCT		WO	Method and Apparatus for Judging Implant Orientation Data	Gone National	PCT/EP15/060195			PCT/EP15/060195	DOHMEN, Lars; Schubert, Mario; WIEDENMANN, Anna
PT-5432-DE-EPA		DE	Method and Device for Determining the Change of an Object	Grant	06019756.3	502006011619.7			Tuma, Gregor
PT-5432-EP-EPA	55 762 XX	EP	Method and Device for Determining the Change of an Object	Grant	06019756.3	1911421			Tuma, Gregor
PT-5432-FR-EPA		FR	Method and Device for Determining the Change of an Object	Grant	06019756.3	1911421			Tuma, Gregor
PT-5432-GB-EPA		GB	Method and Device for Determining the Change of an Object	Grant	06019756.3	1911421			Tuma, Gregor
PT-5432-US-NP	70 888 XV	USA	Method and Device for Determining the Change of an Object	Grant	11/857551	7883545	EP06019756.3		Tuma, Gregor
PT-5432-US-PSP		USA	Method and Device for Determining the Change of an Object	Expired	60/827510		EP06019756.3		Tuma, Gregor
PT-5433-DE-EPT		DE	Determining A Range Of Motion Of An Artificial Knee Joint	Grant	12733438.1	602012026284.2			Fleig, Oliver; BRACK, Christian; LEDER, Christian; Bauer, Martin
PT-5433-EP-EPT	58 621 EP XV	EP	Determining A Range Of Motion Of An Artificial Knee Joint	Grant	12733438.1	2861140		PCT/EP12/061188	Fleig, Oliver; BRACK, Christian; LEDER, Christian; Bauer, Martin
PT-5433-FR-EPT		FR	Determining A Range Of Motion Of An Artificial Knee Joint	Grant	12733438.1	2861140			Zohar; Bauer, Martin
PT-5433-GB-EPT		GB	Determining A Range Of Motion Of An Artificial Knee Joint	Grant	12733438.1	2861140			Fleig, Oliver; BRACK, Christian; LEDER, Christian; Bauer, Martin
PT-5433-US-CNT	76 870 P WO US 2 XV	USA	Determining A Range Of Motion Of An Artificial Knee Joint	Publication of application	15/794754				Fleig, Oliver; BRACK, Christian; LEDER, Christian; Bauer, Martin
PT-5433-US-PCT		USA	Determining A Range Of Motion Of An Artificial Knee Joint	Abandoned	14/405427			PCT/EP12/061188	Zohar; Bauer, Martin
PT-5433-WO-PCT		WO	Determining A Range Of Motion Of An Artificial Knee Joint	Gone National	PCT/EP12/061188			PCT/EP12/061188	Fleig, Oliver; BRACK, Christian; LEDER, Christian; Bauer, Martin
PT-5434-DE-EPA		DE	Planning Method and System for Free-Form Implant Modification	Grant	06016532.1	502006005408.6			Zohar; Bauer, Martin
PT-5434-EP-EPA	55 653 XV	EP	Planning Method and System for Free-Form Implant Modification	Grant	06016532.1	1886640			Neubauer, Timo; Millahn, Manuel
PT-5434-FR-EPA		FR	Planning Method and System for Free-Form Implant Modification	Grant	06016532.1	1886640			Neubauer, Timo; Millahn, Manuel
PT-5434-GB-EPA		GB	Planning Method and System for Free-Form Implant Modification	Grant	06016532.1	1886640			Neubauer, Timo; Millahn, Manuel
PT-5434-US-NP	70 598 XV	USA	Planning Method and System for Free-Form Implant Modification	Grant	11/782768	7742801	EP06016532.1		Neubauer, Timo; Millahn, Manuel

Case Reference	Brianlab Reference	Country	Internal Title	Status	Filing No.	Grant No.	Priority No.	Parent PCT	Inventors
PT-5434-US-PSP		USA	Planning Method and System for Free-Form Implant Modification	Expired	60/822704				Neubauer, Timo; Millahn, Manuel
PT-5435-DE-EPT		DE	Method For Planning The Positioning Of An Implant	Grant	11701255.9	602011025527.4			Halmerl, Martin
PT-5435-EP-EPT	57 951 EP XV	EP	Method For Planning The Positioning Of An Implant	Grant	11701255.9	2667813		PCT/EP11/051056	Halmerl, Martin
PT-5435-FR-EPT		FR	Method For Planning The Positioning Of An Implant	Grant	11701255.9	2667813			Halmerl, Martin
PT-5435-GB-EPT		GB	Method For Planning The Positioning Of An Implant	Grant	11701255.9	2667813			Halmerl, Martin
PT-5435-US-PCT	76 533 XV	USA	Method For Planning The Positioning Of An Implant	Grant	13/979977	9916422		PCT/EP11/051056	Halmerl, Martin
PT-5435-WO-PCT		WO	Method For Planning The Positioning Of An Implant	Gone National	PCT/EP11/051056			PCT/EP11/051056	Halmerl, Martin
PT-5436-AU-PCT[2]	61 612 P WO 2 AU XV	AU	Sagittal Rotation Determination	Local filing	2018232490			PCT/EP17/055583	BECK, Steffen; Schubert, Mario; BRACK, Christian; POITZSCH, Luise
PT-5436-EP-EPT[2]	61 612 P WO 2 EP XV	EP	Sagittal Rotation Determination	Publication of application	18706970.1			PCT/EP18/055067	BECK, Steffen; Schubert, Mario; BRACK, Christian; POITZSCH, Luise
PT-5436-US-PCT[2]	61 612 P WO 2 US XV	USA	Sagittal Rotation Determination	Filing	16/306991			PCT/EP17/055583	BECK, Steffen; Schubert, Mario; BRACK, Christian; POITZSCH, Luise
PT-5436-WO-PCT		WO	Sagittal Rotation Determination	Gone National	PCT/EP17/055583			PCT/EP17/055583	BECK, Steffen; Schubert, Mario; BRACK, Christian; POITZSCH, Luise
PT-5436-WO-PCT[2]		WO	Sagittal Rotation Determination	Publication of application	PCT/EP18/055067			PCT/EP18/055067	BECK, Steffen; Schubert, Mario; BRACK, Christian; POITZSCH, Luise
PT-5437-DE-EPA		DE	Positioning System with Cannulated Implant	Grant	04016593.8	502004005505.2			Plassky, Norman; Tuma, Gregor
PT-5437-EP-EPA	54 539 XV	EP	Positioning System with Cannulated Implant	Grant	04016593.8	1616540			Plassky, Norman; Tuma, Gregor
PT-5437-FR-EPA		FR	Positioning System with Cannulated Implant	Grant	04016593.8	1616540			Plassky, Norman; Tuma, Gregor
PT-5437-GB-EPA		GB	Positioning System with Cannulated Implant	Grant	04016593.8	1616540			Plassky, Norman; Tuma, Gregor
PT-5437-US-NP	48 618 XV	USA	Positioning System with Cannulated Implant	Abandoned	11/181018			EP04016593.8	Plassky, Norman; Tuma, Gregor
PT-5437-US-PSP		USA	Positioning System with Cannulated Implant	Expired	60/590221				Plassky, Norman; Tuma, Gregor