

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT8244403

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
ORTHOFIX S.R.L.	10/12/2023

RECEIVING PARTY DATA

Name:	JPMORGAN CHASE BANK, N.A., AS ADMINISTRATIVE AGENT
Street Address:	10 SOUTH DEARBORN, FLOOR L2S
Internal Address:	SUITE IL1-1145
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60603

PROPERTY NUMBERS Total: 73

Property Type	Number
Application Number:	16302372
Application Number:	17801179
Application Number:	13586619
Application Number:	18250488
Application Number:	15764866
Application Number:	12816099
Application Number:	13058307
Application Number:	16303869
Application Number:	16303883
Application Number:	16481293
Application Number:	17881443
Application Number:	14456599
Application Number:	14833411
Application Number:	14034223
Application Number:	13370980
Application Number:	13365573
Application Number:	14778068
Application Number:	14778069
Application Number:	14908485

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Property Type	Number
Application Number:	14908501
Application Number:	14104922
Application Number:	13939246
Application Number:	14417051
Application Number:	15113642
Application Number:	15543939
Application Number:	16969824
Application Number:	17613273
Application Number:	14283790
Application Number:	14470807
Application Number:	14617542
Application Number:	13063510
Application Number:	12997838
Application Number:	13030985
Application Number:	13030896
Application Number:	15035956
Application Number:	14928734
Application Number:	13825589
Application Number:	12525617
Application Number:	16094099
Application Number:	16096135
Application Number:	12500473
Application Number:	13858461
Application Number:	12938311
Application Number:	16476815
Application Number:	16609896
Application Number:	16609904
Application Number:	17040740
Application Number:	17435933
Application Number:	12716303
Application Number:	13613932
Application Number:	15183958
Application Number:	15451536
Application Number:	17636076
Application Number:	17560789
Application Number:	15253247
Application Number:	13830387
Application Number:	12618514

Property Type	Number
Application Number:	14322183
Application Number:	11792198
Application Number:	16717758
Application Number:	16717841
Application Number:	17799376
Application Number:	17470116
Application Number:	17962158
Application Number:	17103052
Application Number:	15764784
Application Number:	16827269
Application Number:	18311081
Application Number:	16448794
Application Number:	13817778
Application Number:	14777417
Application Number:	11233475
Application Number:	11567661

CORRESPONDENCE DATA

Fax Number: (214)745-5390

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: 2147455612

Email: ngraham@winstead.com

Correspondent Name: NANCY GRAHAM C/O WINSTEAD PC

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Address Line 2: SUITE 500

Address Line 4: DALLAS, TEXAS 75201

NAME OF SUBMITTER: NANCY GRAHAM

SIGNATURE: /Nancy Graham/

DATE SIGNED: 10/27/2023

Total Attachments: 10

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October 12, 2023

PATENT SECURITY AGREEMENT

WHEREAS, Orthofix S.r.l., a company incorporated under the laws of Italy, having its registered office at via Vittor Pisani 16, Milan (MI), Italy, corporate capital equal to Euro 1,560,000.00 fully paid-in, registered with the Trade Register (*Registro delle Imprese*) of Milan – Monza – Brianza – Lodi, Taxpayer and Trade Register number 08976680150 ("Grantor"), owns the Patents and patent applications listed on Schedule 1 annexed hereto, and is a party to the Licenses listed on Schedule 1 annexed hereto; and

WHEREAS, Orthofix Medical Inc., a Delaware corporation (the "Company"), Orthofix US LLC, a Delaware limited liability company ("Orthofix US" and together with the Company, each a "U.S. Borrower" and collectively, the "U.S. Borrowers"), Orthofix Netherlands B.V., a company incorporated under the laws of the Netherlands (the "Dutch Borrower"), as Borrowers, certain subsidiaries of the Company, the Administrative Agent, and certain lenders are parties to the Second Amended and Restated Credit Agreement dated as of October 25, 2019 (as amended, restated, supplemented, consented to or otherwise modified prior to the date hereof, the "Credit Agreement"; all capitalized terms used herein and not otherwise defined shall have the meanings assigned to such terms in the Credit Agreement) and the Grantor is a party to the Joinder Agreement dated as of October 12, 2023, pursuant to which the Grantor become a Loan Party under the Credit Agreement.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Grantor does hereby grant to the Secured Parties a continuing security interest in all of Grantor's right, title and interest in, to and under the following (all of the following items or types of property being herein collectively referred to as the "Patent Collateral"), whether presently existing or hereafter created or acquired:

(1) (a) any and all patents and patent applications; (b) all inventions and improvements described and claimed therein; (c) all reissues, divisions, continuations, renewals, extensions, and continuations-in-part thereof; (d) all income, royalties, damages, claims, and payments now or hereafter due or payable under and with respect thereto, including, without limitation, damages and payments for past and future infringements thereof; (e) all rights to sue for past, present, and future infringements thereof; and (f) all rights corresponding to any of the foregoing (the "Patents"), each of which is set forth herein on Schedule 1 annexed hereto;

(2) (a) any and all licensing agreements or similar arrangements in and to its Patents, (b) all income, royalties, damages, claims, and payments now or hereafter due or payable under and with respect thereto, including, without limitation, damages and payments for past and future breaches thereof, and (c) all rights to sue for past, present, and future breaches thereof (the "Licenses"), each of which is set forth herein on Schedule 1 annexed hereto; and

(3) all accessions to, substitutions for and replacements, proceeds (including stock rights), insurance proceeds and products of the foregoing, together with all books and records, customer lists, credit files, computer files, programs, printouts and other computer materials and records related thereto and any General Intangibles at any time evidencing or relating to any of the foregoing.

This security interest is granted in conjunction with the security interests granted to the Secured Parties pursuant to the Collateral Documents. Grantor hereby acknowledges and affirms that the rights and remedies of Secured Party with respect to the security interest in the Patent Collateral made and granted

hereby are more fully set forth in the Credit Agreement and other Collateral Documents, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. Grantor further acknowledges and affirms that the terms of Section 9.03, Section 9.06, Section 9.09 and Section 9.10 of the Credit Agreement with respect to expenses, indemnities, counterparts, governing law, submission to jurisdiction, venue, and waiver of jury trial and acknowledgment are incorporated herein by reference, mutatis mutandis, and the parties hereto agree to such terms.

[Signatures on Following Pages]

IN WITNESS WHEREOF, Grantor has caused this Patent Security Agreement to be duly executed by its duly authorized officer thereunto as of the first date written above.

Acknowledged:

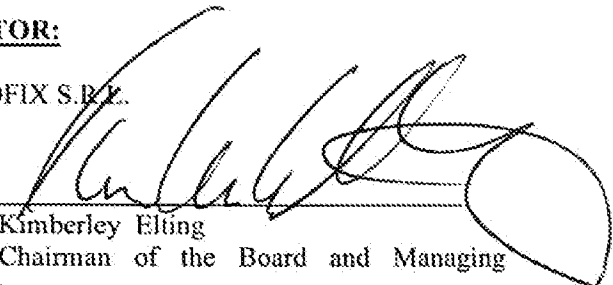
GRANTOR:

ORTHOFIX S.B.E.

By: _____

Name: Kimberley Eling

Title: Chairman of the Board and Managing Director

A handwritten signature in black ink, appearing to read 'Kimberley Eling', is written over a horizontal line. The signature is stylized and cursive.

[Signature Page to Patent Security Agreement]

SECURED PARTY:

JPMORGAN CHASE BANK, N.A., as administrative agent

By: 

Name: Gerardo Barragan Loera

Title: Authorized Officer

[Signature Page to Patent Security Agreement]

PATENT
REEL: 065381 FRAME: 0810

Schedule 1
to Patent
Security Agreement

PATENTS AND PATENT APPLICATIONS

Title	Applicant/Owner	Filing date	Applicati on no.	Issue date	Patent No.	Status
Improved instrument for aligning fixing screws to be inserted in transverse holes of nails for long bones, in particular medullary nails	ORTHOFIX S.r.l.	5/18/2017	16/302,372	1/12/2021	10,888,339	Registered/Granted
Improved arthrodesis device	ORTHOFIX S.r.l.	3/18/2021	17/801,179			Pending
Targeting assembly for a compression nail system	ORTHOFIX S.r.l.	8/15/2012	13/586,619	1/26/2016	9,241,744	Registered/Granted
External fixator for calcaneus fractures	ORTHOFIX S.r.l.	10/28/2021	18/250,488			Pending
Endosseous screw assembly and internal fixation system comprising said endosseous screw assembly	ORTHOFIX S.r.l.	9/19/2016	15/764,866	8/11/2020	10,736,675	Registered/Granted
Device for the osteosynthesis of proximal humerus fractures	ORTHOFIX S.r.l.	3/10/2006	12/816,099	12/25/2012	US 8,337,534	Registered/Granted
	ORTHOFIX S.r.l.	12/22/2009	13/058,307	10/7/2014	US 8,852,252	Registered/Granted
Internal plate fixation device	ORTHOFIX S.r.l.	5/24/2017	16/303,869	5/18/2021	11,006,987	Registered/Granted
Bone plate for epiphysiodesis	ORTHOFIX S.r.l.	6/1/2017	16/303,883	1/25/2022	11,229,463	Registered/Granted
Improved internal fixator device of the bone plate type	ORTHOFIX S.r.l.	3/12/2018	16/481,293	8/9/2022	11,406,434	Registered/Granted
Bone Plate	ORTHOFIX S.r.l.	3/12/2018	17/881,443			Pending
Device and method for the wireless transmission of energy	ORTHOFIX S.r.l.	8/11/2014	14/456,599	2/27/2018	9,906,046	Registered/Granted

Title	Applicant/Owner	Filing date	Application no.	Issue date	Patent No.	Status
INTRAMEDULLARY NAIL	ORTHOFIX S.r.l.	8/24/2015	14/833,411	5/2/2017	9,636,153	Registered/Granted
Fixation devices to use in temporary application and/or definitive fixation	ORTHOFIX S.r.l.	2/10/2012	14/034,223	5/20/2014	8,728,079	No B&F
Fixation devices to use in temporary application and/or definitive fixation	ORTHOFIX S.r.l.	2/10/2012	13/370,980	9/24/2013	US 8,540,713	No B&F
Articulated external fixator device to treat elbow fractures and / or stiffness	ORTHOFIX S.r.l.	2/3/2012	13/365,573	5/13/2014	US 8,721,641	Registered/Granted
External fixation device	ORTHOFIX S.r.l.	3/11/2014	14/778,068	9/5/2017	9,750,536	Registered/Granted
Articulated device for the wrist	ORTHOFIX S.r.l.	3/11/2014	14/778,069	5/22/2018	9,974,568	Registered/Granted
Device for locking uni-cortical pins	ORTHOFIX S.r.l.	7/10/2014	14/908,485	10/9/2018	10,092,326	Registered/Granted
Anchoring group for external fixator	ORTHOFIX S.r.l.	7/10/2014	14/908,501	3/13/2018	9,913,663	Registered/Granted
Anchoring group for external fixator	ORTHOFIX S.r.l.	12/12/2013	14/104,922	3/20/2018	9,918,741	Registered/Granted
Elongated pin for a modular external fixation system for temporary and/or definitive fixation applications and modular external fixation system	ORTHOFIX S.r.l.	7/11/2013	13/939,246	12/23/2014	US 8,915,914	Registered/Granted
Elongated pin for a modular external fixation system for temporary and/or definitive fixation applications and modular external fixation system	ORTHOFIX S.r.l.	7/4/2013	14/417,051	4/28/2020	10,631,896	Registered/Granted
Elongated pin for application of an external fixator	ORTHOFIX S.r.l.	1/22/2015	15/113,642	11/27/2018	10,136,921	Registered/Granted
Elongated pin for application of an external fixator	ORTHOFIX S.r.l.	12/21/2015	15/543,939	7/3/2018	10,010,349	Registered/Granted
Quick attachment clamp for external fixation systems	ORTHOFIX S.r.l.	12/20/2018	16/969,824	1/10/2023	11,547,448	Registered/Granted

Title	Applicant/Owner	Filing date	Application no.	Issue date	Patent No.	Status
Quick attachment clamp for external fixation systems	ORTHOFIX S.r.l.	5/27/2020	17/613,273			Pending
Orthopaedic device to be associated with the outside of a bone	ORTHOFIX S.r.l.	9/8/2009	14/283,790	2/16/2016	RE 45,888	No B&F
Support orthopaedic device for a knee joint	ORTHOFIX S.r.l.	8/27/2014	14/470,807	7/26/2016	RE 46-077	No B&F
ORTHOPAEDIC DEVICE FOR CORRECTING DEFORMITIES OF LONG BONES	ORTHOFIX S.r.l.	9/14/2009	14/617,542	3/14/2017	9,592,080	No B&F
ORTHOPAEDIC DEVICE FOR CORRECTING DEFORMITIES OF LONG BONES	ORTHOFIX S.r.l.	9/14/2009	13/063,510	2/10/2015	8,951,253	No B&F
Intermarrow nail to be inserted into a fractured long bone	ORTHOFIX S.r.l.	6/15/2009	12/997,838	2/26/2013	US 8,382,760	Registered/Granted
Intramedullary nail with shape memory elements	ORTHOFIX S.r.l.	2/18/2011	13/030,985	5/14/2013	US 8,439,916	Registered/Granted
Improved intramedullary nail with shape memory elements for elongated bones	ORTHOFIX S.r.l.	2/18/2011	13/030,896	6/11/2013	US 8,460,293	Registered/Granted
Endosseous screw assembly and internal fixation system comprising said endosseous screw assembly	ORTHOFIX S.r.l.	11/11/2014	15/035,956	7/24/2018	10,028,778	Registered/Granted
FEMORAL IMLANT REVISION TOOL	ORTHOFIX S.r.l.	9/21/2011	14/928,734	6/2/2020	10,667,926	Registered/Granted
IMPROVED FEMORAL IMLANT REVISION TOOL	ORTHOFIX S.r.l.	9/21/2011	13/825,589	12/1/2015	9,198,776	Registered/Granted
REMOVAL OF PROSTHESIS	ORTHOFIX S.r.l.	2/19/2008	12/525,617	10/7/2014	8,852,194	Registered/Granted
Inner plate fixator device for the pediatric correction	ORTHOFIX S.r.l.	4/14/2017	16/094,099	5/18/2021	11,006,986	Registered/Granted

Title	Applicant/Owner	Filing date	Application no.	Issue date	Patent No.	Status
of severe bone malformations						
Inner fixation device for the treatment of a limb, in particular the femur distal portion or tibia proximal portion	ORTHOFIX S.r.l.	4/26/2017	16/096,135	6/16/2020	10,682,161	Registered/Granted
ANKLE ARTHRODESIS NAIL AND OUTRIGGER ASSEMBLY	ORTHOFIX S.r.l.	7/9/2009	12/500,473	12/11/2012	8,328,807	Registered/Granted
ANKLE ARTHRODESIS NAIL AND OUTRIGGER ASSEMBLY	ORTHOFIX S.r.l.	4/8/2013	13/858,461	1/5/2016	9,226,783	Registered/Granted
ANKLE ARTHRODESIS NAIL AND OUTRIGGER ASSEMBLY	ORTHOFIX S.r.l.	11/2/2010	12/938,311	4/9/2013	8,414,584	Registered/Granted
Bone plate internal fixator device	ORTHOFIX S.r.l.	1/18/2018	16/476,815			Pending
Targeting system for the guided insertion of a guide wire or a bone screw	ORTHOFIX S.r.l.	5/3/2018	16/609,896	8/17/2021	11,090,065	Registered/Granted
Improved bone screw for the treatment of bone collapses or deformations, such as in the case of the Charcot foot, and insertion instrument of anti-migration elements into the bone screw	ORTHOFIX S.r.l.	5/3/2018	16/609,904			Pending
Improved orthopaedic stapler	ORTHOFIX S.r.l.	3/18/2019	17/040,740			Pending
Device for the angular correction of a lower limb in pediatric patients	ORTHOFIX S.r.l.	3/4/2020	17/435,933			Pending
Growth prosthesis	ORTHOFIX S.r.l.	3/3/2010	12/716,303	8/28/2012	8,252,063	Registered/Granted

Title	Applicant/Owner	Filing date	Application no.	Issue date	Patent No.	Status
Marrow nail	ORTHOFIX S.r.l.	9/13/2012	13/613,932	9/22/2015	9,138,266	Registered/Granted
MECHATRONIC IMPLANT RECEIVER	ORTHOFIX S.r.l.	6/16/2016	15/183,958	4/17/2018	9,943,345	Registered/Granted
RECEIVER	ORTHOFIX S.r.l.	3/7/2017	15/451,536	2/11/2020	10,555,800	Registered/Granted
Intramedullary nail for distracting a long bone	ORTHOFIX S.r.l.	8/20/2020	17/636,076			Pending
Orthopedic cable bone transport device and bone transport system comprising said device	ORTHOFIX S.r.l. Texas Scottish Rite Hospital For Children	12/23/2021	17/560,789			Pending
Variable angle screws, plates and systems	ORTHOFIX S.r.l.	3/14/2013	15/253,247	7/2/2019	10,335,212	Registered/Granted
Variable angle screws, plates and systems	ORTHOFIX S.r.l.	3/14/2013	13/830,387	9/6/2016	9,433,454	Registered/Granted
	ORTHOFIX S.r.l.	11/13/2009	12/618,514	4/30/2013	8,430,878	Registered/Granted
IMPROVED OSTEOTOME	ORTHOFIX S.r.l.	12/2/2005	14/322,183	9/19/2017	9,763,673	Registered/Granted
IMPROVED OSTEOTOME	ORTHOFIX S.r.l.	12/2/2005	11/792,198	11/18/2014	8,888,783	Registered/Granted
Improved handset for an ultrasonic device	ORTHOFIX S.r.l.	12/17/2019	16/717,758			Pending
System and method for driving an ultrasonic device	ORTHOFIX S.r.l.	12/17/2019	16/717,841			Pending
Telescopic nail and associated perforating tool	ORTHOFIX S.r.l.	3/3/2020	17/799,376			Pending
Orthopedic spring hinge systems and methods	ORTHOFIX S.r.l. Texas Scottish Rite Hospital For Children	9/9/2021	17/470,116	11/15/2022	11,497,527	Registered/Granted
Orthopedic spring hinge systems and methods	ORTHOFIX S.r.l. Texas Scottish Rite Hospital For Children	10/7/2022	17/962,158			Pending
Improved orthopaedic external fixation system with	ORTHOFIX S.r.l. Texas Scottish	11/24/2020	17/103,052			Pending

Title	Applicant/Owner	Filing date	Applicati on no.	Issue date	Patent No.	Status
removable rails or skates	Rite Hospital For Children					
Walking skates system removably coupled to an external ring fixation system	ORTHOFIX S.r.l. Texas Scottish Rite Hospital For Children	9/19/2016	15/764,784	8/18/2020	10,743,917	No B&F
External fixation strut	ORTHOFIX S.r.l. Texas Scottish Rite Hospital For Children	3/23/2020	16/827,269			Pending
External fixation strut	ORTHOFIX S.r.l. Texas Scottish Rite Hospital For Children	3/23/2020	18/311,081			Pending
Dynamization tabs providing component interconnectivity for external fixation devices.	ORTHOFIX S.r.l. Texas Scottish Rite Hospital For Children	6/21/2019	16/448,794	3/7/2023	11,596,442	Registered/Granted
Method and system for roentgenography-based modeling	Texas Scottish Rite Hospital For Children ORTHOFIX S.r.l.	8/20/2010	13/817,778	9/13/2016	9,443,302	NO B&F
Method of determining the position of an object using projections of markers or struts	Texas Scottish Rite Hospital For Children ORTHOFIX S.r.l.	3/15/2013	14/777,417	5/1/2018	9,959,683	Registered/Granted
Intramedullary nail for the treatment of proximal femur fractures	ORTHOFIX S.r.l.	9/21/2005	11/233,475	3/2/2010	7,670,340	Registered/Granted
	ORTHOFIX S.r.l.	12/6/2006	11/567,661	3/19/2013	8,398,687	Registered/Granted