# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7287140

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
RAVI PATEL	05/17/2021
JORDAN JACOBS	05/19/2021
DANIEL GAMACHE	05/17/2021
BRIAN OTRANDO	05/27/2021
TIMOTHY REPPERT	05/17/2021
STEVEN REPPUCCI	04/19/2022
MARK SHAINWALD	05/17/2021

# **RECEIVING PARTY DATA**

Name:	DEPUY SYNTHES PRODUCTS, INC
Street Address:	325 PARAMOUNT DRIVE
City:	RAYNHAM
State/Country:	MASSACHUSETTS
Postal Code:	02767

# **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17241308

# **CORRESPONDENCE DATA**

Fax Number:

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.

Email: WHTHOMSON@MINTZ.COM

Correspondent Name: MINTZ

Address Line 1: ONE FINANCIAL CENTER

Address Line 4: BOSTON, MASSACHUSETTS 02111

ATTORNEY DOCKET NUMBER:	47062-559002US
NAME OF SUBMITTER:	CHRISTINA SPERRY
SIGNATURE:	/Christina Sperry/
DATE SIGNED:	04/19/2022
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT REEL: 059640 FRAME: 0152

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# Total Attachments: 14 source=Combined Dec and Assignment\_MED6066USNP2 - signed\_Patel#page1.tif source=Combined Dec and Assignment\_MED6066USNP2 - signed\_Patel#page2.tif source=Combined Dec and Assignment\_MED6066USNP2 - signed\_Jacobs#page1.tif source=Combined Dec and Assignment\_MED6066USNP2 - signed\_Jacobs#page2.tif source=Combined Dec and Assignment\_MED6066USNP2 - signed\_Gamache#page1.tif source=Combined Dec and Assignment\_MED6066USNP2 - signed\_Gamache#page2.tif source=Combined Dec and Assignment\_MED6066USNP2 - signed\_Otrando#page1.tif source=Combined Dec and Assignment\_MED6066USNP2 - signed\_Otrando#page2.tif source=Combined Dec and Assignment\_MED6066USNP2 - signed\_Reppert#page1.tif source=Combined Dec and Assignment\_MED6066USNP2 - signed\_Reppert#page1.tif

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# COMBINED DECLARATION AND ASSIGNMENT

COMBINED DECLARATION AND ASSIGNMENT
Title of Invention: KNOTLESS ANCHOR INSERTION
This declaration and assignment is directed to:
The attached or filed herewith application of (list of named inventors),
or
The United States application or PCT international application Number 17/241,308 filed on April 27, 2021
Declaration
As the below named inventor, I hereby declare that:
The above-identified application ("Application") was made or authorized by me.
I believe that I am the original inventor or an original inventor of a claimed invention or discovery in the Application.
I have reviewed and understood the contents of the Application, including the claims, and I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of this Application in the United States of America.
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both for filings of this Application in the United States of America.
Assignment  DePuy Synthes Products, Inc.  325 Paramount Drive  Raynham, MA 02767
a corporation of Delaware (hereinafter designated as the "Assignee"),
I hereby acknowledge that I have assigned the above-identified invention by previous assignment (attached hereto) to Assignee which is hereby conformed for recordation in the US Patent Office and I confirm I have and do assign and transfer:
or or
For good and valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer and/or have assigned and transferred to Assignee:
my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising therefrom and the right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of the United States, European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of them, all such inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divisions, and continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all extensions, supplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.
Page 1 of 2

US Application No.: 17/241,308

I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Ravi Patel (May 1), 2021 19:22 (EV)		May 17, 2021	
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The above-identified application	("Applicat	tion") was made or authorized by me.
I believe that I am the original in	ventor or a	n original inventor of a claimed invention or discovery in the Application.
	ility as de	nts of the Application, including the claims, and I acknowledge the duty to disclose fined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
		e statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or h for filings of this Application in the United States of America.
Assignment		DePuy Synthes Products, Inc. 325 Paramount Drive Raynham, MA 02767
	(here	a corporation of Delaware einafter designated as the "Assignee"),
		the above-identified invention by previous assignment (attached hereto) to Assignee Patent Office and I confirm I have and do assign and transfer:
or		
For good and valuable consider assigned and transferred to Assignee:	ration, the	sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the Application States, European Patent Office and of all such inventions or discoveries and all continuations thereof, and to all Letters supplementary protection certificates, recomplete the supplementary protection certificates.	on, all invalued on the courights in a second or the cours of the cour	the Application, including all priority rights for other countries arising therefrom and rentions or discoveries therein disclosed, and any and all Letters Patent of the United antries, which may be granted for such inventions or discoveries, or any of them, all such Application including any and all provisionals, substitutions, divisions, and t may be granted for said inventions and discoveries, and in and to all extensions, as, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use or which such Letters Patent may be granted, as fully and entirely as the same would ent and sale not been made.
		Page 1 of 2

US Application No.: 17/241,308

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I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Jordan Jacobs Jordan Jacobs (May 18, 2021 07/24 EDY)	,		May 19, 2021
/ Signature	/		Date
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		Page 2 of 2	
			PATENT —

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As the below named inventor	, I hereby dec	clare that:
The above-identified applicate	tion ("Applica	ntion") was made or authorized by me.
I believe that I am the origina	al inventor or	an original inventor of a claimed invention or discovery in the Application.
	ntability as de	ents of the Application, including the claims, and I acknowledge the duty to disclose efined in Title 37, the United States Code of Federal Regulations, §1.56 for filings of
		se statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or th for filings of this Application in the United States of America.
Assignment		DePuy Synthes Products, Inc. 325 Paramount Drive Raynham, MA 02767
	(her	a corporation of Delaware reinafter designated as the "Assignee"),
		If the above-identified invention by previous assignment (attached hereto) to Assignee S Patent Office and I confirm I have and do assign and transfer:
or		
For good and valuable consassigned and transferred to Assignee:	sideration, the	e sufficiency of which is acknowledged, I hereby assign and transfer and/or have
the right to claim priority to the Appl States, European Patent Office and c such inventions or discoveries and continuations thereof, and to all Lett supplementary protection certificates,	ication, all im of all other co all rights in ers Patent that reexamination	the Application, including all priority rights for other countries arising therefrom and ventions or discoveries therein disclosed, and any and all Letters Patent of the United untries, which may be granted for such inventions or discoveries, or any of them, all such Application including any and all provisionals, substitutions, divisions, and at may be granted for said inventions and discoveries, and in and to all extensions, ns, renewals, and reissues thereof, to be held and enjoyed by Assignee for its own use for which such Letters Patent may be granted, as fully and entirely as the same would nent and sale not been made.
		Page 1 of 2

US Application No.: 17/241,308

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I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Daniel Gamache transel transeche (May 17, 2023 25.23 25.7)	/	May 17, 2021	
Signature		Date	
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	Page 2 of 2	2	
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# COMBINED DECLARATION AND ASSIGNMENT

Title of Invention: KNOTLESS ANCH	OR INSERTION	
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0		
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As the below named inventor, I hereby	declare that:	
The above-identified application ("Ap	lication") was made or authorized by me.	
I believe that I am the original invento	or an original inventor of a claimed invention or discovery in the Application.	
	ontents of the Application, including the claims, and I acknowledge the duty to defined in Title 37, the United States Code of Federal Regulations, §1.56 for it.	
	false statement made in this declaration is punishable under 18 U.S.C. § 1001 both for filings of this Application in the United States of America.	by fine or
Assignment	DePuy Synthes Products, Inc. 325 Paramount Drive Raynham, MA 02767	
	a corporation of Delaware (hereinafter designated as the "Assignee"),	
	ned the above-identified invention by previous assignment (attached hereto) to US Patent Office and I confirm I have and do assign and transfer:	) Assignee
or		
For good and valuable consideration assigned and transferred to Assignee:	the sufficiency of which is acknowledged, I hereby assign and transfer ar	nd/or have
the right to claim priority to the Application, a States, European Patent Office and of all othe such inventions or discoveries and all rights continuations thereof, and to all Letters Pater supplementary protection certificates, reexamin	der the Application, including all priority rights for other countries arising ther inventions or discoveries therein disclosed, and any and all Letters Patent of a countries, which may be granted for such inventions or discoveries, or any of in such Application including any and all provisionals, substitutions, divisionals that may be granted for said inventions and discoveries, and in and to all entions, renewals, and reissues thereof, to be held and enjoyed by Assignee for in the forwhich such Letters Patent may be granted, as fully and entirely as the sagnment and sale not been made.	the United f them, all sions, and extensions, ts own use
	Page 1 of 2	

US Application No.: 17/241,308

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## LEGAL NAME OF INVENTOR

<u>Brian Otrando</u> Bitan Otrando (Nay 21, 2021 10:10 ED1)		May 27, 2021	
gnature		Date	
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	Page 2 of 2	2	
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# COMBINED DECLARATION AND ASSIGNMENT

Title of Invention: KNOTLESS ANC	CHOR I	INSERTION
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Assignment		DePuy Synthes Products, Inc. 325 Paramount Drive Raynham, MA 02767
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For good and valuable considerate assigned and transferred to Assignee:	tion, the	sufficiency of which is acknowledged, I hereby assign and transfer and/or have
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US Application No.: 17/241,308

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### LEGAL NAME OF INVENTOR

Timothy Repoert Tanous Report (May 1) 2021 37:08 EIST) 1		May 17, 2021	
Signature		Date	
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	Page 2 o	of Z	
		PATENT	

REEL: 059640 FRAME: 0163

# COMBINED DECLARATION AND ASSIGNMENT

Title of Invention: KNOTLESS	ANCHOR	INSERTION
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<b>Steven Reppucsi</b> Steven Reppucs (No. 19, 2072 to 55 E07)	/		Apr 19, 20	22
Signature	<u> </u>		Date	
111328326v.1				
		Page 2 of 2		
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I believe that I am the original inventor or an original inventor of a claimed invention or discovery in the Application.	
I have reviewed and understood the contents of the Application, including the claims, and I acknowledge the duty information which is material to patentability as defined in Title 37, the United States Code of Federal Regulations, §1.56 for this Application in the United States of America.	
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 imprisonment of not more than five (5) years, or both for filings of this Application in the United States of America.	by fine or
Assignment  DePuy Synthes Products, Inc.  325 Paramount Drive Raynham, MA 02767  a corporation of Delaware (hereinafter designated as the "Assignee"),	
I hereby acknowledge that I have assigned the above-identified invention by previous assignment (attached hereto) to which is hereby conformed for recordation in the US Patent Office and I confirm I have and do assign and transfer:	) Assignee
or ·	
For good and valuable consideration, the sufficiency of which is acknowledged, I hereby assign and transfer assigned and transferred to Assignee:	nd/or have
my entire right, title, and interest in, to, and under the Application, including all priority rights for other countries arising there the right to claim priority to the Application, all inventions or discoveries therein disclosed, and any and all Letters Patent of States, European Patent Office and of all other countries, which may be granted for such inventions or discoveries, or any of such inventions or discoveries and all rights in such Application including any and all provisionals, substitutions, divident continuations thereof, and to all Letters Patent that may be granted for said inventions and discoveries, and in and to all estupplementary protection certificates, reexaminations, renewals, and reissues thereof, to be held and enjoyed by Assignee for it and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the sa have been held and enjoyed by me had this assignment and sale not been made.	the United of them, all sions, and extensions, ts own use
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I shall execute all papers necessary in connection with the Application in the United States Patent and Trademark Office, European Patent Office, any other patent offices, and under the Patent Cooperation Treaty, and any continuing, divisional, or reissue applications thereof, any reexamination of any of such applications, and any patent term extensions or supplementary protection certificates of any such applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I shall execute all papers necessary in connection with any litigation or any other judicial proceeding in the United States or other country, or any administrative proceeding in the United States Patent and Trademark Office, European Patent Office, any other patent office, or under the Patent Cooperation Treaty concerning the Application(s) or any continuation, divisional, or reissue applications thereof, or any reexamination of any such applications, or any Letters Patent issued therefrom or any patent term extensions or supplementary protection certificates of any such applications and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such litigation or proceeding.

I shall execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

I shall do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States, by the European Patent Office and in all other countries where Assignee may desire to have such inventions or discoveries, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

I hereby (i) authorize and request the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from the Application or any divisional, continuation, or reissue applications thereof, and any reexamination of any of such applications, to Assignee, and (ii) covenant that I have full right to convey the interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I hereby grant the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to obtain legal recordation of this document.

Mark Shainwald Bark Bhainwald (Nov 17, 2021 18/20 1817)		May 17, 2021
Signature		Date Date
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