# 504743658 01/24/2018

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYA	NCE:	ASSIGNMENT		
CONVEYING PARTY D	ΑΤΑ	•		
		Name	Execution Date	
TRACY PAT-YEN NG			07/18/2012	
KYLE CRAIG PILGERAI	M		07/18/2012	
LEE HARRIS CORDOV	4		07/18/2012	
STUART EDWARD FRO	DMM		08/22/2012	
ROBERT EUGENE MCLAUGHLIN II		1	07/13/2012	
RECEIVING PARTY DA	TA			
Name:	HOWMEDICA OSTEONICS CORP.			
Street Address:	325 COF	RPORATE DRIVE		
City:	MAHWA	Н		
State/Country:	NEW JE	RSEY		
Postal Code:	07430			
PROPERTY NUMBERS Property Type		Number		
Application Number:	1	5878026		
CORRESPONDENCE D	ΑΤΑ			
Fax Number:	(9	908)654-0415		
		the e-mail address first; if that is un		
Phone:	-	<i>if that is unsuccessful, it will be ser</i> 908) 518-6359	n via US man.	
(/		ssignment@lernerdavid.com		
-		0		
Correspondent Name:	L	ERNER, DAVID, LITTENBERG, KRUN	/IHOLZ & MENTLIK, LLP	
•		ON SOUTH AVENUE WEST	/HOLZ & MENTLIK, LLP	
Address Line 1:	6		/HOLZ & MENTLIK, LLP	
Address Line 1: Address Line 4:	6 V	00 SOUTH AVENUE WEST	/HOLZ & MENTLIK, LLP	
Address Line 1: Address Line 4: ATTORNEY DOCKET NU	6 V	00 SOUTH AVENUE WEST VESTFIELD, NEW JERSEY 07090	/HOLZ & MENTLIK, LLP	
Address Line 1: Address Line 4: ATTORNEY DOCKET NU IAME OF SUBMITTER:	6 V	00 SOUTH AVENUE WEST VESTFIELD, NEW JERSEY 07090 SYKSM 3.0-866 CON DIV	/HOLZ & MENTLIK, LLP	
Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NU NAME OF SUBMITTER: BIGNATURE: DATE SIGNED:	6 V	00 SOUTH AVENUE WEST VESTFIELD, NEW JERSEY 07090 SYKSM 3.0-866 CON DIV KATHLEEN REYNOLDS	/HOLZ & MENTLIK, LLP	
Address Line 1: Address Line 4: ATTORNEY DOCKET NU IAME OF SUBMITTER: SIGNATURE:	6 V	00 SOUTH AVENUE WEST VESTFIELD, NEW JERSEY 07090 SYKSM 3.0-866 CON DIV KATHLEEN REYNOLDS /Kathleen Reynolds/	/HOLZ & MENTLIK, LLP	

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	former PTO/SB/15 (8-00) Modified LDLK&M Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	OSTEONICS 3.0-866
Whereas, I. <u>Tracy Pat-Yen Ng</u> 73 S. Logan Street; Denver, Colorado 80209 hereafter referred to as assignor, have with others invented certa	
KNOTLESS FILAMENT ANCHOR FOR SOFT TISSUE         X       for which an application for a United States Letters Pate         Application Number       13/441,290         Image: State of the sta	ont was filed on April 6, 2012
Whereas, Howmedica Osteonics Corp. a corporation of <u>New Jersey</u> herein referred to as "assignee" whe <u>325 Corporate Drive; Mahwah, New Jersey</u> 07430 Is desirous of acquiring the entire right, title and interest in the sa	
NOW, THEREFORE, in consideration of the sum of <u>one</u> or is acknowledged, and other good and valuable consideration, I assignee my entire right, tille and interest for the United State invention and the aforesaid utility patent application and all or substitute or reissue applications and patents applied for or gra other countries, for said invention, including without limitation all priority or benefit and the Commissioner of Patents and Tradem patents on said improvements or resulting therefrom to said therein; and the undersigned for me and my legal representatives without further remuneration, to execute and deliver all original, of for Letters Patent on said improvements all facts known to the un requested, to testify in any interferences or other legal proceedil become involved, to sign all lawful papers, make all rightful oat assignee, its successors, assigns and nominees to obtain patent expenses incident to said applications to be borne and paid by sa	as assignor hereby sell, assign and set over to said is of America and all other countries in and to said original, divisional, continuation, continuation-in-part, inted therefor in the United States of America and all applications and patents for said invention claiming ny law or treaty, and including the right to claim such iarks is hereby authorized and requested to issue all assignee herein, as assignee of the entire interest as, heirs and assigns do hereby agree and covenant divisional, continuation, reissue and other applications preof to said assignee or its assigns, to communicate indersigned respecting said improvements, whenever ngs in which any of said applications or patents may ths, and to do generally everything necessary to aid protection for said improvements in all countries, the
And I do hereby authorize my attorneys to insert on this deed the when known.	
7/18/2012	(Signature)
(Date)	(Signature)
State of ) SS: SEE / County of ) No T	ATTACHED CA ACKNLWLEDGMENT Ally
On this day of before Yen Ng, to me personally known as the individual who executed that the same was executed by him/her of his/her own free will fo	
(Notary Public)	
x *Total of 5 forms are submitted.	

1728653

## CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

	<u>DE 2844 EXECTED EN </u>
State of California	ļ
County of SANTA CLARA	
	HUG KIM J NOTARY PUBLIC Here Insert Name and Title of the Officer HENG NG Name(s) of Signer(s)
Date TCACH DAT	Here Insert Name and Title of the Officer
personally appeared	/ C// G / 人 ム Name(s) of Signer(s)
KOD HWA KIM Commission # 1850382 Notary Public - California Santa Clara County	who proved to me on the basis of satisfactory evidence be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me the he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf which the person(s) acted, executed the instrument.
My Comm. Expires May 22, 2013	I certify under PENALTY OF PERJURY under the law of the State of California that the foregoing paragraph true and correct.
	WITNESS my hand and official seal.
	· · · · · · · · · · · · · · · · · · ·
Place Notary Seal Above	Signature
Though the information below is not required by law, and could prevent fraudulent removal and	it may prove valuable to persons relying on the document reattachment of this form to another document.
Description of Attached Document	
Title or Type of Document:	
	Number of Pages:
Signer(s) Other Than Named Above:	and the second
Capacity(ies) Claimed by Signer(s)	and a second and a s
Signer's Name:	Signer's Name: Signer's Name: Corporate Officer — Title(s): Partner — Limited General Attorney in Fact Guardian or Conservator Other: Signer Is Representing:

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	former PTO/SB/15 (8-00) Modified LDLK&M Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	OSTEONICS 3.0-866
Whereas, I, Kyle Craig Pilgeram 6178 Cahalan Avenue; San Jose, California 95123 hereafter referred to as assignor, have with others invented certa KNOTLESS FILAMENT ANCHOR FOR SOFT TISSU x for which an application for a United States Letters Pater Application Number 13/441,290 for which an application for a United States Letters Pater and	E REPAIR ent was filed on <u>April 6, 2012</u>
<ul> <li>Whereas, Howmedica Osteonics Corp.</li> <li>a corporation of New Jersey herein referred to as "assignee" wh 325 Corporate Drive; Mahwah, New Jersey 07430</li> <li>is desirous of acquiring the entire right, title and interest in the sa</li> <li>NOW, THEREFORE, in consideration of the sum of one is acknowledged, and other good and valuable consideration, I assignee my entire right, title and interest for the United State invention and the aforesaid utility patent application and all substitute or reissue applications and patents applied for or gra other countries, for said invention, including without limitation a priority or benefit of the aforesaid utility application pursuant to a priority or benefit and the Commissioner of Patents and Tradem patents on said improvements or resulting therefrom to said therein; and the undersigned for me and my legal representative without further remuneration, to execute and deliver all original, of or Letters Patent on said improvements all facts known to the u requested, to testify in any interferences or other legal proceed become involved, to sign all lawful papers, make all rightful oa assignee, its successors, assigns and nominees to obtain patent said applications to be borne and paid by said applications.</li> </ul>	me; dollar (\$ <u>1.00</u> ), the receipt whereof as assignor hereby sell, assign and set over to said as of America and all other countries in and to said original, divisional, continuation, continuation-in-part, inted therefor in the United States of America and all Il applications and patents for said invention claiming any law or treaty, and including the right to claim such narks is hereby authorized and requested to issue all assignee herein, as assignee of the entire interest es, heirs and assigns do hereby agree and covenant divisional, continuation, reissue and other applications ereof to said assignee or its assigns, to communicate indersigned respecting said improvements, whenever ngs in which any of said applications or patents may ths, and to do generally everything necessary to aid protection for said improvements in all countries, the
And I do hereby authorize my attorneys to insert on this deed the when known.	-
7/18/2012	Tine m
(Date)	(Signature)
State of Sta	TTACHED CA ACKNOWLENGMENT NCTARY
On this day of, before Pilgeram, to me personally known as the individual who execute that the same was executed by him/her of his/her own free will fo	me personally came the above-named Kyle Craig ad the foregoing instrument, who acknowledged to me
(Notary Public)	
X *Total of 5 forms are submitted.	

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California	}	
County of SANTA LLARA		
On <u>18 Jul 2012</u> before me,	Here Insert Name and Tille of the Officer Here Insert Name and Tille of the Officer Name(s) of Signer(s)	3hr 1 C
personally appeared ICYLE CRA	NG PILGERAM Name(s) of Signer(s)	
KOO HWA KIM Commission # 1850382 Notary Public - California Santa Clara County My Comm. Expires May 22, 2013	who proved to me on the basis of satisfable the person(s) whose name(s) is/are within instrument and acknowledg he/she/they executed the same in his/hicapacity(ies), and that by his/her/their s instrument the person(s), or the entity which the person(s) acted, executed the	subscribed to the ed to me tha er/their authorized ignature(s) on the y upon behalf o e instrument.
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	true and correct.	
	WITNESS my hand and official seal.	
	Signature	
	OPTIONAL	
Though the information below is not required by	law, it may prove valuable to persons relying on the doc and reattachment of this form to another document.	
Description of Attached Document		and the second se
Title or Type of Document:		
Document Date:	Number of Pages:	
Signer(s) Other Than Named Above:	and the second se	
Capacity(ies) Claimed by Signer(s)	a for the second se	
Signer's Name: Individual Corporate Officer — Title(s):	Signer's Name: Individual Corporate Officer — Title(s):	annan an a
<ul> <li>Partner — I Limited General</li> <li>Attorney in Fact</li> <li>Trustee</li> <li>Guardian or Conservator</li> <li>Other:</li> </ul>	Partner — 🗆 Limited 🗋 General	러(네가(네)/(린)귀(네) (이/상(네)귀구 Top of thumb here
Signer le Representing:	Signer Is Representing:	~

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	former PTO/SB/15 (8-00) Modified LDLK&A Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	
	OSTEONICS 3.0-866
Whereas, I,       Lee Harris Cordova         1544 S. Vine Street; Denver, Colorado 80210         hereafter referred to as assignor, have with others invented certa         KNOTLESS FILAMENT ANCHOR FOR SOFT TISSU         X         for which an application for a United States Letters Pate         Application Number       13/441,290         for which an application for a United States Letters Paten         and	E REPAIR ent was filed on April 6, 2012
Whereas, <u>Howmedica Osteonics Corp.</u> a corporation of <u>New Jersey</u> herein referred to as "assignee" wh <u>325 Corporate Drive; Mahwah, New Jersey</u> 07430 is desirous of acquiring the entire right, title and interest in the sa	
NOW, THEREFORE, in consideration of the sum of <u>one</u> of is acknowledged, and other good and valuable consideration, I assignee my entire right, title and interest for the United State invention and the aforesaid utility patent application and all of substitute or reissue applications and patents applied for or grad other countries, for said invention, including without limitation all priority or benefit of the aforesaid utility application pursuant to a priority or benefit and the Commissioner of Patents and Tradem patents on said improvements or resulting therefrom to said therein; and the undersigned for me and my legal representative without further remuneration, to execute and deliver all original, of for Letters Patent on said improvements and all assignments the to said assignee or its representatives all facts known to the un requested, to testify in any interferences or other legal proceedi become involved, to sign all lawful papers, make all rightful oat assignee, its successors, assigns and nominees to obtain patent expenses incident to said applications to be borne and paid by set	es of America and all other countries in and to said original, divisional, continuation, continuation-in-part, nted therefor in the United States of America and all I applications and patents for said invention claiming my law or treaty, and including the right to claim such narks is hereby authorized and requested to issue all assignee herein, as assignee of the entire interest es, heirs and assigns do hereby agree and covenant divisional, continuation, reissue and other applications bereof to said assignee or its assigns, to communicate ndersigned respecting said improvements, whenever ngs in which any of said applications or patents may ths, and to do generally everything necessary to aid protection for said improvements in all countries, the
And I do hereby authorize my attorneys to insert on this deed the when known.	filing date and application number of said application
July 18,2012 I	el Ma
(Date)	(Signature)
State of) SS; - SEE / County of) Juit An	ATTACHER CA ALKNOWLEDGMENT Cy
On this day of before to <u>Cordova</u> , to me personally known as the individual who execute that the same was executed by him/her of his/her own free will fo	
(Nolary Public)	- THE REAL PROPERTY AND A DESCRIPTION OF THE REAL PROPERT
x *Total of 5 forms are submitted.	

### CALIFORNIA ALL-PURPOSE ACKNOWLEDGME

	nen en
State of California	
County of SANTACLARA	
On <u>17 Jul 구이 2</u> before me,	KOU HWA KIM, JUTARY PUBLIC
	KOL HWA KIM JUTARY PUBLIC Here Insert Name and Tille of the Officer COR DOVA Name(s) of Signer(s)
KOO HWA KIM Commission # 1850382 Notary Public - California Senta Clara County My Comm. Expires May 22, 2013	who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.
	WITNESS my hand and official seal.
	Signature 2/20 7/2
Place Notary Seal Above	Signature of Nolary Public 7710NAL
Though the information below is not required by law	, it may prove valuable to persons relying on the document
Description of Attached Document	I reattachment of this form to another document.
Title or Type of Document:	
Document Date:	and the second
Signer(s) Other Than Named Above:	
Capacity(ies) Claimed by Signer(s)	
Signer's Name:	Signer's Name:

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		former PTO/SB/15 (8-00) Modified LDLK&M
		Docket Number (Optional)
	ASSIGNMENT OF UTILITY APPLICATION	OSTEONICS 3.0-866
	Whereas, I, Robert Eugene McLaughlin II	of
	47 Forster Road; Manchester, Massachusetts 01944	
	hereafter referred to as assignor, have with others invented certa	ain new and useful improvements in
	KNOTLESS FILAMENT ANCHOR FOR SOFT TISSU	
	X for which an application for a United States Letters Pate	
	Application Number 13/441,290	
	for which an application for a United States Letters Pater	t was avaautad by ma op
	and	it was executed by me on ,
	Whereas, Howmedica Osteonics Corp.	
	a corporation of New Jersey herein referred to as "assignee" wh	ose mailing address is
	325 Corporate Drive; Mahwah, New Jersey 07430	
	is desirous of acquiring the entire right, title and interest in the sa	ame;
	NOW, THEREFORE, in consideration of the sum of one	dollar (\$ 1.00 ), the receipt whereof
	is acknowledged, and other good and valuable consideration,	as assignor hereby sell, assign and set over to said
	assignee my entire right, title and interest for the United Stat invention and the aforesaid utility patent application and all	
	substitute or reissue applications and patents applied for or gra	anted therefor in the United States of America and all
	other countries, for said invention, including without limitation a priority or benefit of the aforesaid utility application pursuant to	all applications and patents for said invention claiming
	priority or benefit and the Commissioner of Patents and Trade	marks is hereby authorized and requested to issue all
	patents on said improvements or resulting therefrom to said	assignee herein, as assignee of the entire interest
	therein; and the undersigned for me and my legal representative without further remuneration, to execute and deliver all original,	divisional, continuation, reissue and other applications
	for Letters Patent on said improvements and all assignments the	nereof to said assignee or its assigns, to communicate
	to said assignee or its representatives all facts known to the u requested, to testify in any interferences or other legal proceed	indersigned respecting said improvements, whenever lings in which any of said applications or patents may
	become involved, to sign all lawful papers, make all rightful or	aths, and to do generally everything necessary to aid
	assignee, its successors, assigns and nominees to obtain pater	
	expenses incident to said applications to be borne and paid by s	aid assignee.
	And I do hereby authorize my attorneys to insert on this deed th	e filing date and application number of said application
	when known.	
	7/13/12	
	(Date)	(Signature)
		(Olghaldre)
	State of Massaelusetta SS:	
	County of <u>Exacy</u> )	
	On this 13 day of Oxene 2012 befor	e me personally came the above-named Robert
	Eugene McLaughlin II, to me personally known as the inc	lividual who executed the foregoing instrument, who
	acknowledged to me that the same was executed by him/her of	
	norma of Bacon	NORMA L. BACON
2	(Notary Public)	
		My Commission Expires
	× *Total of 5 forms are submitted.	February 28, 2019
	LD-528\	

ASSIGNMENT OF UTILITY APPLICATION	former PTO/SB/15 (6-00) Modified LDLK&M Docket Number (Optional)	
	OSTEONICS 3.0-B66	
Vhereas, I, Stuart Edward Fromm	of	ĺ
3224 Tahoe Peak Place; Rapid City, South Dakota 57702		
ereafter referred to as assignor, have with others invented certain n	lew and useful improvements in	
KNOTLESS FILAMENT ANCHOR FOR SOFT TISSUE R	EPAIR	
x for which an application for a United States Letters Patent w	vas filed on April 6, 2012	Í
Application Number 13/441,290		
for which an application for a United States Letters Patent wa	is executed by me on	1
and		l
		-
/hereas, Howmedica Osteonics Corp.		1
corporation of <u>New Jersey</u> herein referred to as "assignee" whose	mailes oddenna is	
325 Corporate Drive; Mahwah, New Jersey 07430	-	
desirous of acquiring the entire right, title and interest in the same;	and a second	
		5
acknowledged, and other good and valuable consideration I as	A HIGH AND A	
		]
her countries, for said invention, including without limitation of granted	intereror in the United States of America and all	
erein; and the understand for me and my level conceptotions	gnee narein, as assignee of the entire interest	
luested, to testify in any interferences or other legal proceedings	signed respecting said improvements, whenever	
and paid by said at the second s	ssignee.	
d I do hereby authorize my attorneys to insert on this deed the filing en known.	g date and application number of said application	
en known.	f G D	
8/22/17 *1	heart ( to	
(Date)		
. Sal il la lata	(Signature)	
ate of CUAL ALOTA SS:		-
unty of Rinhaston )		
unty of $R_{n}(n, fon_{)})$ On this $R_{day}$ of $M/Q = 1.7$ here m		
On this BZ day of AUA , Z before me ward Fromm, to me personally known as the individual w	personally came the above-named <u>Stuart</u>	
On this BZ day of AUA , Z before me ward Fromm, to me personally known as the individual w		
unty of $R_{n}(n, fon_{)})$ On this $R_{day}$ of $M/Q = 1.7$ here m		
unty of Rean ASTON ) On this BZ day of Aug , Z before me ward Fromm, to me personally known as the individual w mowledged to me that the same was executed by him/her of his/her Man Man Man States and the same was executed by him/her of his/her Man Man Man States and the same was executed by him/her of his/her		
On this BZ day of AUA , Z before me ward Fromm, to me personally known as the individual w		
unty of Rean ASTON ) On this BZ day of Aug , Z before me ward Fromm, to me personally known as the individual w mowledged to me that the same was executed by him/her of his/her Man Man Man States and the same was executed by him/her of his/her Man Man Man States and the same was executed by him/her of his/her	no executed the foregoing instrument, who rown free will for the purposes therein set forth.	48

PATENT REEL: 0**33780** FRAME: 05**5**2

RECORDED: 06/26/2018