## PATENT ASSIGNMENT COVER SHEET

## Electronic Version v1.1 Stylesheet Version v1.2

## EPAS ID: PAT2728001

SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:			ASSIGNMENT		
CONVEYING PART	Y DATA				
N N			Name	Execution Date	
ZONGTAO ZHANG				02/11/2014	
KEENAN MICHAEL HANSON				02/11/2014	
THOMAS FRANCI	S MCCARTHY	02/11/2014			
DANIEL E. LAWRY	NOWICZ	02/11/2014			
AIGUO WANG				02/10/2014	
RECEIVING PART		A OST	EONICS CORP.		
Street Address:		HOWMEDICA OSTEONICS CORP. 325 CORPORATE DRIVE			
City:		Манман			
State/Country:					
Postal Code:	07430				
PROPERTY NUMB Property			Number	-	
Application Number: 13783		3894			
CORRESPONDEN	CE DATA				
Fax Number: Phone: Email: <i>Correspondence wi</i> Correspondent Nan Address Line 1: Address Line 4:	(908) Assi <i>III be sent via US</i> ne: LDL 600	<i>Mail w</i> K&M SOUT		ful.	
ATTORNEY DOCKET NUMBER:			OSTEONICS 3.0-882		
NAME OF SUBMITTER:		RAYMOND W. AUGUSTIN			
502681394				PATENT REEL: 032221 FRAME: 0106	

## **REEL: 032221 FRAME: 0106**

Signature:	/Raymond W. Augustin/
Date:	02/14/2014
Total Attachments: 5 source=OSTEONICS 3.0-882 ASSIGNMEN source=OSTEONICS 3.0-882 ASSIGNMEN source=OSTEONICS 3.0-882 ASSIGNMEN source=OSTEONICS 3.0-882 ASSIGNMEN	ITS#page2.tif ITS#page3.tif ITS#page4.tif

	former PTO/SB/15 (8-00) Mod
ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) OSTEONICS 3.0-882
Whereas, I, Aiguo Wang	
4 Greenbrier Court; Wayne, New Jersey 07470	
hereafter referred to as assignor, have with others invented certa	in new and useful improvements is
COBALT CHROME COATED TITANIUM IMPLANT	
X for which an application for a United States Letters Pate	nt was filed on March 4, 2013
Application Number 13/783,894 for which an application for a United States Letters Paten	
and	
Whereas, Howmedica Osteonics Corp.	
a corporation of <u>New Jersey</u> herein referred to as "assignee" who	se mailing address is
325 Corporate Drive; Mahwah, New Jersey 07430	
is desirous of acquiring the entire right, title and interest in the sai	ne;
invention and the aforesaid utility patent application and all or 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	ated therefor in the United States of America applications and patents for said invention of any law of treaty, and including the debt to de
Substitute or reissue applications and patents applied for or gra- 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 a therein; and the undersigned for me and my legal representative without further remuneration, to execute and deliver all original, d 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 proceedir become involved, to sign all lawful papers, make all rightful cett assignee, its successors, assigns and nominees to obtain patent expenses incident to said applications to be borne and paid by said	ted therefor in the United States of America applications and patents for said invention of y law or treaty, and including the right to clai arks is hereby authorized and requested to it assignee herein, as assignee of the entire a, heirs and assigns do hereby agree and or vivisional, continuation, releasue and other appli reof to said assignee or its assigns, to comm dersigned respecting said improvements, whi gs in which any of said applications or pater protection for said improvements in all countr d assignee.
Substitute or reissue applications and patents applied for or gra- 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 a therein; and the undersigned for me and my legal representative without further remuneration, to execute and deliver all original, d 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 proceedir become involved, to sign all fawful papers, make all rightful oat assignee, its successors, assigns and nominees to obtain patent	ted therefor in the United States of America applications and patents for said invention of y law or treaty, and including the right to clai arks is hereby authorized and requested to it assignee herein, as assignee of the entire a, heirs and assigns do hereby agree and or vivisional, continuation, releasue and other appli reof to said assignee or its assigns, to comm dersigned respecting said improvements, whi gs in which any of said applications or pater protection for said improvements in all countr d assignee.
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PATENT REEL: 032221 FRAME: 0108

	former PTO/SB/15 (8-00) Modified LDLK&M	
ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	OSTEONICS 3.0-882	
Whereas, I, Zongtao Zhang	of	
3 Skyview Terrace; Riverdale, New Jersey 07457		
hereafter referred to as assignor, have with others invented certa	ain new and useful improvements in	
x for which an application for a United States Letters Pate	ent was filed on March 4, 2013	
Application Number 13/783,894		
for which an application for a United States Letters Pater and	nt was executed by me on	
Whereas, Howmedica Osteonics Corp.		
a corporation of <u>New Jersey</u> herein referred to as "assignee" wh	nose 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 <u>one</u> is acknowledged, and other good and valuable consideration, 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- other countries, for said invention, including without limitation a priority or benefit of the aforesaid utility application pursuant to priority or benefit and the Commissioner of Patents and Trader 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, for Letters Patent on said improvements and all assignments th to said assignee or its representatives 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 of assignee, its successors, assigns and nominees to obtain pater expenses incident to said applications to be borne and paid by s And I do hereby authorize my attorneys to insert on this deed th when known.	es of America and all other countries in and to said original, divisional, continuation, continuation-in-part, anted therefor in the United States of America and all ill applications and patents for said invention claiming any law or treaty, and including the right to claim such marks is hereby authorized and requested to issue all assignee herein, as assignee of the entire interest ves, heirs and assigns do hereby agree and covenant divisional, continuation, reissue and other applications tereof to said assignee or its assigns, to communicate undersigned respecting said improvements, whenever lings in which any of said applications or patents may aths, and to do generally everything necessary to aid th protection for said improvements in all countries, the aid assignee.	
State of <u>New Gersey</u> ) SS: County of <u>Bersen</u> )		
On this <u>II</u> day of <u>Fe. biz 0 are</u> , <u>2014</u> before <u>Zhang</u> , to me personally known as the individual who execute that the same was executed by him/her of his/her own free will fe <u>Astrony</u> <u>M</u> <u>Salero</u> (Notary Public)	d the foregoing instrument, who acknowledged to me	
x *Total of ASHEEY Hore Star Shomitted.		
D-528: NOTANY PUBLIC OF NEW JERGET		
Bly Commission Expires 7/31/2018		

3066489

PATENT REEL: 032221 FRAME: 0109

ASSIGNMENT OF UTILITY APPLICATION       Docket Number (Optional) OSTEONICS 3.0-882         Whereas, I,Daniel E. Lawrynowicz 96 Ralphie Lane; Monroe, New York 10950	of
Whereas, I,	of
96 Ralphie Lane; Monroe, New York 10950         hereafter referred to as assignor, have with others invented certain new and useful improvements in         COBALT CHROME COATED TITANIUM IMPLANT         X       for which an application for a United States Letters Patent was filed on	of
hereafter referred to as assignor, have with others invented certain new and useful improvements in         COBALT CHROME COATED TITANIUM IMPLANT         X       for which an application for a United States Letters Patent was filed on	ı
COBALT CHROME COATED TITANIUM IMPLANT         Image: State in the same;         COBALT CHROME COATED TITANIUM IMPLANT         Image: State in the same;         Comparison of the same;             Comparison of the same;             Comparison of the same;             Comparison of the same;             Comparison of the same;             Comparison of the same;	·
X       for which an application for a United States Letters Patent was filed on	,
Application Number       13/783,894         for which an application for a United States Letters Patent was executed by me on and         Whereas,       Howmedica Osteonics Corp.         a corporation of New Jersey       herein referred to as "assignee" whose mailing address is         325 Corporate Drive; Mahwah, New Jersey 07430         is desirous of acquiring the entire right, title and interest in the same;	ı
for which an application for a United States Letters Patent was executed by me on and         Whereas,	
and Whereas, <u>Howmedica Osteonics Corp.</u> a corporation of <u>New Jersey</u> herein referred to as "assignee" whose mailing address is <u>325 Corporate Drive; Mahwah, New Jersey</u> 07430 is desirous of acquiring the entire right, title and interest in the same;	,
Whereas,       Howmedica Osteonics Corp.         a corporation of New Jersey herein referred to as "assignee" whose mailing address is         325 Corporate Drive; Mahwah, New Jersey 07430         is desirous of acquiring the entire right, title and interest in the same;	
a corporation of <u>New Jersey</u> herein referred to as "assignee" whose mailing address is <u>325 Corporate Drive; Mahwah, New Jersey 07430</u> is desirous of acquiring the entire right, title and interest in the same;	
a corporation of <u>New Jersey</u> herein referred to as "assignee" whose mailing address is <u>325 Corporate Drive; Mahwah, New Jersey</u> 07430 is desirous of acquiring the entire right, title and interest in the same;	
325 Corporate Drive; Mahwah, New Jersey 07430 is desirous of acquiring the entire right, title and interest in the same;	
is desirous of acquiring the entire right, title and interest in the same;	
NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ <u>1.00</u> ), the receipt w is acknowledged, and other good and valuable consideration, I as assigner hereby sell, assign and set over a assignee my entire right, title and interest for the United States of America and all other countries in and t invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-is substitute or reissue applications and patents applied for or granted therefor in the United States of America other countries, for said invention, including without limitation all applications and patents for said invention of priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to clair	to said to said n-part, and all alming
priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to is patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire in therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and co without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applic for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to commut to said assignee or its representatives all facts known to the undersigned respecting said improvements, while requested, to testify in any interferences or other legal proceedings in which any of said applications or patent become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countrie expenses incident to said applications to be borne and paid by said assignee.	sue all nterest venant cations unicate enever ts may to aid es, the
And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said appl when known.	ication
(Date) (Signature)	
State of <u>New Sersey</u> ) SS: County of <u>Bergen</u> )	
On this $\underline{M}$ day of $\underline{Febeucrew}$ , $\underline{2CH}$ before me personally came the above-named $\underline{Dat}$ <u>Lawrynowicz</u> , to me personally known as the individual who executed the foregoing instrument, who acknow to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.	<u>niel E.</u> Iedged
AShly M Saleso (Notary Public)	••••••••••••••••••••••••••••••••••••••
X *Total of HEY N. BALERNO	
LD-528 My Commission Explores 7/31/2018	Minister of Constants

PATENT REEL: 032221 FRAME: 0110

	former PTO/SB/15 (8-00) Modified LDLK&M
ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional)
	OSTEONICS 3.0-882
Whereas, I, Thomas Francis McCarthy	of
210 Johns Lane; Neshanic Station, New Jersey 08853	
hereafter referred to as assignor, have with others invented cert COBALT CHROME COATED TITANIUM IMPLANT	ain new and useful improvements in
X for which an application for a United States Letters Pat Application Number 13/783,894	ent was filed onMarch 4, 2013
for which an application for a United States Letters Pater and	nt was executed by me on
Whereas, <u>Howmedica Osteonics Corp.</u> a corporation of <u>New Jersey</u> herein referred to as "assignee" whereas the second se	and mailing address is
325 Corporate Drive; Mahwah, New Jersey 07430	tose mailing address is
is desirous of acquiring the entire right, title and interest in the sa	ame;
is acknowledged, and other good and valuable consideration, 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 gr other countries, for said invention, including without limitation a priority or benefit of the aforesaid utility application pursuant to priority or benefit and the Commissioner of Patents and Trade 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, for Letters Patent on said improvements and all assignments the to said assignee or its representatives all facts known to the requested, to testify in any interferences or other legal proceed become involved, to sign all lawful papers, make all rightful of assignee, its successors, assigns and nominees to obtain pater expenses incident to said applications to be borne and paid by s	tes of America and all other countries in and to said original, divisional, continuation, continuation-in-part anted therefor in the United States of America and al all applications and patents for said invention claiming any law or treaty, and including the right to claim such marks is hereby authorized and requested to issue al assignee herein, as assignee of the entire interes ves, heirs and assigns do hereby agree and covenan divisional, continuation, reissue and other applications hereof to said assignee or its assigns, to communicate undersigned respecting said improvements, wheneve dings in which any of said applications or patents may aths, and to do generally everything necessary to aid not protection for said improvements in all countries, the said assignee.
And I do hereby authorize my attorneys to insert on this deed th when known.	le filing date and application number of said application
2-11-14	Ahnt Marter
(Date)	(Signature)
State of <u>New Sersey</u> ) SS: County of <u>Bergen</u> )	(
On this <u>1</u> day of <u>Februcy 2014</u> before <u>Francis McCarthy</u> , to me personally known as the indiv acknowledged to me that the same was executed by him/her of ARMAM McCale	idual who executed the foregoing instrument, who
(Notary Public)	
ASHLEY M. SALERNO	
X *TotanorARY FUELIGORNEW SERVED.	
D-528 My Commission Expires ?(31/2018	

	former PTD/SB/15 (8-00) Modified LDLK& Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	OSTEONICS 3.0-882	
Whereas, I, Keenan Michael Hanson	of	
354 Bramertown Road; Tuxedo, New York 10987		
nereafter referred to as assignor, have with others invented certa	in new and useful improvements in	
COBALT CHROME COATED TITANIUM IMPLANT		
X for which an application for a United States Letters Pate	nt was filed on March 4, 2013	
Application Number 13/783,894		
for which an application for a United States Letters Pater	t was executed by me on	
and		
Whereas, Howmedica Osteonics Corp.		
a corporation of <u>New Jersey</u> herein referred to as "assignee" wh 325 Corporate Drive; Mahwah, New Jersey 07430	ose mailing address is	
s desirous of acquiring the entire right, title and interest in the sa	me'	
	Iollars (\$ <u>1.00</u> ), the receipt when	
s acknowledged, and other good and valuable consideration, I assignee my entire right, title and interest for the United State		
nvention and the aforesaid utility patent application and all	priginal, divisional, continuation, continuation-in-p	
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 Traden	narks is hereby authorized and requested to issue	
patents on said improvements or resulting therefrom to said herein; and the undersigned for me and my legal representativ	assignee herein, as assignee of the entire inte es, heirs and assigns do hereby agree and cover	
without further remuneration, to execute and deliver all original,	livisional, continuation, reissue and other applicati	
or Letters Patent on said improvements and all assignments th o said assignee or its representatives all facts known to the u	ereof to said assignee or its assigns, to communic adersioned respecting said improvements, where	
equested, to testify in any interferences or other legal proceed	ngs in which any of said applications or patents r	
become involved, to sign all lawful papers, make all rightful oa		
assignee, its successors, assigns and nominees to obtain paten expenses incident to said applications to be borne and paid by s		
,	-	
And I do hereby authorize my attorneys to insert on this deed the when known.	filing date and application number of said applica	
3 /	7- 71	
2/11/14		
(Date)	(Signature)	
State of New Sersey ) SS:		
County of <u>Reparent</u> )		
	me normanally approximately ap	
On this 1 day of <u>February 2014</u> before	me personally came the above-hamed <u>Reel</u>	
<u>Michael Hanson,</u> to me personally known as the individ	ual who executed the foregoing instrument, w	
Michael Hanson, to me personally known as the individ acknowledged to me that the same was executed by him/her of l	ual who executed the foregoing instrument, w	
<u>Michael Hanson</u> , to me personally known as the individ acknowledged to me that the same was executed by him/her of l ASWM M Salamer	ual who executed the foregoing instrument, w	
Michael Hanson, to me personally known as the individ acknowledged to me that the same was executed by him/her of l	ual who executed the foregoing instrument, w	
<u>Michael Hanson</u> , to me personally known as the individ acknowledged to me that the same was executed by him/her of I AAMM Jalaner (Notary Public)	ual who executed the foregoing instrument, w	
<u>Michael Hanson</u> , to me personally known as the individ acknowledged to me that the same was executed by him/her of l ASMM M Salamer	ual who executed the foregoing instrument, w	