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07/10/2012

Form PTO-1595 (Rev. 03-11)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office
OMB No. 0651-0027 (exp. 03/31/2015) RECORDATION FOR	
PATENTS	5 ONLY
To the Director of the U.S. Patent and Trademark Office: Please	record the attached documents or the new address(es) below.
1. Name of conveying party(ies):	2. Name and address of receiving party(les)
William O'Neill (06/17/2004), Christopher J. Sutcliffe (06/17/2004), and Eric Jones	Name: Howmedica Osteonics Corp.
(06/17/2004) Additional name(s) of conveying party(les) attached? Yes X No	Internal Address:
3. Nature of conveyance/Execution Date(s):	Street Address:
	325 Corporate Drive
Execution Date(s): In parentheses after inventor name	
Security Agreement Joint Research Agreement	City: Mahwah
Government Interest Assignment	State: New Jersey
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 07430
Other	Additional name(s) & address(es) Yes X No attached?
 A. Patent Application No.(s) 12/386,679 Additional numbers attached 	B. Pateni No.(s)
Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 1
Name: Ryan L. Bergeron LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Internal Address: Atty. Dkt.: OSTEONICS 3.0-441 CON	
Street Address: 600 South Avenue West	X Authorized to be charged to deposit account
	Enclosed
	None required (government Interest not affecting title)
City: Westfield	6. Payment Information
State: NJ Zip: 07090	
Phone Number:908-654-5000	
Fax Number: 908-654-7866	Deposit Account Number 12-1095 Authorized User Name Rvan L. Bergeron
Email Address: ataylor@ldlkm.com	Authorized User Name Ryan L. Bergeron
Signature	July 10, 2012 Date
Ryan L. Bergeron - 66,377	Total number of progen instuding cover
Name of Person Signing	sheet, attachments, and documents:

ASSIGNMENT OF UTILITY APPLICATION /hereas, I,	OSTEONICS 3.0-441
University of Liverpool; Faculty of Engineering, Ashton Bidg.; LN	of
ereafter referred to as assignor, have with others invented certa	in new and useful improvements in
LASER-PRODUCED POROUS SURFACE	
X for which an application for a United States Letters Peter	nt was filed on <u>November 7, 2003</u>
Application Number 10/704,270	
for which an application for a United States Letters Paten	twee eventient by me on
and	
/hereas, Howmedica Osteonics Corp. corporation of <u>New Jersey</u> herein referred to as "assignee" who	ere mailies address is
325 Corporate Drive: Mehwah, New Jersey 07430	Alle Ulfrimifi gréisser is
desirous of acquiring the entire right, title and interest in the sa	mə;
	ollars (\$ 1.00), the receipt whereo
said invention and the aforesaid utility patent application and to reissue applications and patents applied for or granted therefor soundas, for said invention, including without limitation all applic richty or benefit of the aforesaid utility application pursuant to alm such priority or benefit and the Commissioner of Patents equeated to issue all patents on said improvements or resu- saignee of the entire interest therein; and the undersigned for seigne of the entire interest therein; and the undersigned for seignee of the entire interest therein; and the undersigned for seignments thereof to said assignee of its assigns, to communic (cts known to the undersigned respecting said improvement tenferences or other legal proceedings in which any of said app grin all lawful papers, make all rightful oaths, and to do genera uccessors, assigns and nominees to obtain patent protection spenses incident to exid applications to be borne end paid by an as assigner, hereby assign to said essignee all of My right, t	r in the United States of America and all othe ations and patents for said invention claiming any law or treaty, and including the right to a and Trademarks is hereby authorized and ling therefrom to aald assignee herein, as me and my legal representatives, heirs and eration, to execute and deliver all original tars Patent on said improvements and al- cate to said assignee or its representatives all ris, wherever requested, to leadly in any illications or patents may become involved, to lay everything necessary to all assignee, its for seld improvements in all countries, the ald assignee.
pplication Nos. 60/424,923, filed November 8, 2002 and 60/425 ivention disclosed thereto in all countries of the world including pplication Nos. 60/424,923, filed November 8, 2002 and 60/425 ny law or treaty in the countries of the world.	5,657 filed on November 12, 2002, and in the n the right to claim priority or benefit of said
(Date)	William O'Nelli (Signature)
(Wilness)	
· (YYIU)889)	
Total of _ 3_ forma are submitted.	

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former PTC/BE/15 (8-00) Modified LOLK&M

	Docket Number (Optional)
	OSTEONICS 3.0-441
Whereas, i,Christopher J. Sutcliffe	of
University of Liverpool; Faculty of Engineering, Astrton Bidg.; Li	Verpool: La9 3GH; UNITED KINGDOM
hereafter referred to as assignor, have with others invented cert	aln new and useful improvements in
LASER-PRODUCED POROUS SURFACE	and the second
X for which an application for a United States Letters Pat	ient was filed on <u>November 7, 2003</u>
Application Number 10/704,270	Management
for which an application for a United States Letters Pater and	nt was executed by me on
Whereas, Howmedica Ostsonics Corp.	**************************************
a corporation of New Jersey herein referred to as "assignee" wh	tose mailing address is
325 Corporate Drive; Manwah, New Jersey 07430 Is desirous of acquiring the antire right, title and interest in the si	20061
	tollars (\$ <u>1.00</u>), the receipt whereof
Now, menetation and other social and valuable consideration, is said assignee my entire right, like and interest for the United St to said invention and the aforesaid utility batent application and or relasue applications and patents applied for or granted thereful countries, for said invention, including without limitation all applic priority or benefit of the aforesaid utility application pursuant to claim such priority or benefit and the Commissioner of Patent requested to issue all patents on said improvements or resu- assignee of the entire interest therein; and the undersigned fo assigns do hereby agree and other applications for Lu- assignments thereof to said assignee or its assigns. It communi- ties to here to base all easignee or the satisfance to be com- near thereof to baid assignee or the assignments thereof interferences or other legal proceedings in which any of said ap- sign all lawful papers, make all rightful catha, and to degree successors, assigns and nominees to other patient protection excenses incident to said applications to be borne and patent protections is not be patient and the applications of add ap-	Altes of America and all other countries in and all original, divisional, continuation, substitute or in the United States of America and all other cations and patents for said invention claiming o any law or treaty, and including the right to be and Trademarks is hereby authorized and uiting therefrom to said assignee herein, as ir me and my legal representatives, heira and nersition, to execute and dailyer all original, streated to said assignee or its representatives all only whenever requested, to testify in any plications or patents may become involved, to ally everything necessary to aid assignee. Its in for said improvements in all countries, the said assignee.
I, as assignor, hereby assign to said assignee all of my right, Application Nos. 60/424,923, filed November 8, 2002 and 60/42 Invention disclosed thereto in all countries of the world includin Application Nos. 60/424,923, filed November 8, 2002 and 60/42 any law or treaty in the countries of the world. (T+(06/04) Walth Cata)	95 857 Ned on November 12, 2002, and 10 (08 1
(Witness	
x Total of 3 forms are submitted.	

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former PTQ/38/18 (8-00) Modified LDLK&M

Assignment of utility APPLICATION Cocket Number (Optional) OSTEONICS 3,0-441 Whereas, 1, Eric Jones Ardiehen, Kildimo Co.; Limerick; IRELAND
OSTEONICS 3.0-441 OSTEONICS 3.0-441 Ardehan, Kitolimo Co.; Limerick; IRELAND Ardehan, Kitolimo Co.; Limerick; IRELAND Ardehan, Kitolimo Co.; Limerick; IRELAND LASER-PRODUCED POROUS SURFACE X for which an application for a United States Letters Patent was filed on November 7, 2003 Application Number 10/704,270 for which an application for a United States Letters Patent was executed by me on and Nhereas, Howmedica Osteonics Corp. a corporation of New Jersey herein referred to as "assignee" whose mailing address is <u>325 Corporate Drive: Mathwah, New Jersey 07430</u> a dealrous of acquiring the entire right, tide and Interest in the same; wOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt where s acknowledged, and uture good and valuable consideration, if as assignee and ect ove aid assignee my entire right, tide and Interest for the United States of Americe and all other countries in a o said Invention and the aforesaid utility patent application and all original, divisional, continuation, subatif resisse applications and patents applied for or granted therefor in the United States of America and all other countries in a
Ardahan, Kitolimo Co,; Limerick; IRELAND hereafter referred to as assignor, have with others invented certain new and useful improvements in LASER-PRODUCED POROUS SURFACE Image: Imag
Ardiahan, Kitolimo Co,; Limerick; IRELAND hareaftar referred to as assignor, have with others invented cartain new and useful improvements in LASER-PRODUCED POROUS SURFACE x for which an application for a United States Letters Patent was filed on
LASER-PRODUCED POROUS SURFACE Image: State in the state i
for which an application for a United States Letters Patent was filed on
Application Number <u>10/704.270</u> for which an application for a United States Letters Patent was executed by me on
for which an application for a United States Letters Patent was executed by me on
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: Mathwah, New Jersey 07430</u> a 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 wher a acknowledged, and ubine good and valuable consideration, i as assignee more by early easign and set ove taid assignee my entire right, title and Interest for the United States of Americe and all other countries in a o said Invention and the aforesaid utility patent application and all original, divisional, continuation, substit or reissue applications and patents applied for or granted therefor in the United States of America and all other countries in a suburbine, for said invention, including without limitation all apolications and patents for said invention claim
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> a dealrous 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 where a acknowledged, and utuar good and valuable consideration, i as assigner hereby sell, essign and set over valid assignee my entire right, title and interest for the United States of America and all other countries in a o said invention and the aforesaid utility patent application and all original, idvisional, continuation, substiti or reissue applications and patents applied for or granted therefor in the United States of America and all other countries and all original.
<u>325 Corporate Drive: Matwah, New Jersey 07430</u> a dealrous 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 when a acknowledged, and utuar good and valuable consideration, i as assigner hereby sell, easign and set ove hald assignee my entire right, title and interest for the United States of America and all other countries in a o said invention and the aforesaid utility patent application and all original, divisional, continuation, substiti or reissue applications and patents applied for or granted therefor in the United States of America and all other countries and all or pruprise. For said invention, including without limitation all applications and patents for said invention claim
a dealrous 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 wher s acknowledged, and uther good and valuable consideration, i as assigner hereby sell, easign and set ove hald assignee my entire right, title and interest for the United States of America and all other countries in a o said invention and the aforesaid utility patent application and all original, divisional, continuation, substit prefersue applications and patents applied for or granted therefor in the United States of America and all other countries and all sourchies, for said invention, including without limitation all applications and patents for said invention claim
NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ 1.00)), the receipt when a acknowledged, and utuar good and valuable consideration, i as assigner hereby sell, easign and set ove hald assignee my entire right, title and interest for the United States of America and all other countries in a o said invention and the aforesaid utility patent application and all original, divisional, continuation, substit or reissue applications and patents applied for or granted therefor in the United States of America and all or and all or substitutions, for said invention, including without limitation all applications and patents for said invention claim
s acknowledged, and uther good and valuable consideration, i as assignor hereby cell, easign and set ove said assignee my entire right, title and interest for the United States of America and all other countries in a o said invention and the aforesaid utility patent application and all original, divisional, continuation, substit or reissue applications and patents applied for or granted therefor in the United States of America and all or sourchise, for said invention, including without limitation all apolications and patents for said invention claim
Itain such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized a equested to issue all patents on said improvements or resulting therefrom to seld assignee herein, assignee of the entire interest therein; and the undersigned for me and my legal representatives, here is issigned do hereby agree and covenent without further remuneration, to execute and deliver all origin divisional, continuation, reissue and other applications for Letters Patent on said assignee herein, assignments thereof to seld assignee or its assigns, to communicate to said assignee or its representatives acts known to the undersigned respecting said improvements, whenever requested, to testify in a interferences or other legal proceedings in which any of said applications or patents may become involved interferences or other legal proceedings in which any of said applications or patents may become involved increases incident to said applications to be home and paid by said improvements in all countries, we presents incident to said applications to be home and paid by said assignee.
Application Nos. 60/424,923, filed November 8, 2002 and 60/425,657 filed on November 12, 2002, and in Novention disclosed thereto in all countries of the world including the right to claim priority or benefit of a Application Nos. 60/424,923, filed November 8, 2002 and 60/425,657 filed on November 12, 2002 pursuan iny law or treaty in the countries of the world.
(Date) (Signature)
(Willingsa)
x Totel of 3 forms are submitted.

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