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orm PTO-1595 (Rev. 09/ 04)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office
MB N > 0651-0027 (exp. 6/30/2005) RECORDATION FORI	
PATENTS	ONLY
To the Director of the U.S. Patent and Trademark Office: Please	record the attached documents or the new address(es) below.
Name of conveying party(les)/Execution Date(s):	2. Name and address of receiving party(les)
ERIC JONES (01/03/2006), CHRISTOPHER J.	
SUTCLIFFE (03/03/2006), AND ROBIN STAMP	
(03/03/2006)	THE TENE A OSTEONIOS CORR
	Name: HOWMEDICA OSTEONICS CORP.
	Internal Address:
Execution Date(s): in parentheses after inventor name	Street Address:
Additional name(s) of conveying party(les) attached? Yes X No	
3. Nature of Conveyance:	325 CORPORATE DRIVE
Assignment Merger	
	City: MAHWAH
Security Agreement Change of Name	NOW TO OF W
Government Interest Assignment	VIIIV
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 07430
X Other Re-record to replace assignment Document filed under Reel 017332, Frame 0691	Additional name(s) & address(es) Yes X No attached:
	This document is being filed together with a new application.
4, Uhhiman	B. Patent No.(s)
A. Patent Application No.(s) 11/295,008	and the state of t
11/290,000	
Additional numbers attached	? Yes X No
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Kevin M. Kocun	
LERNER, DAVID, LITTENBERG,	7. Total fee (37 CFR 1.21(b) & 3.41) \$ 40.00
KRUMHOLZ & MENTLIK, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
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Internal Address: Atty. Dkt.: OSTEONICS 3.0-558	Authorized to be charged by credit card
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Street Address: 600 South Avenue West	X Authorized to be charged to deposit account
	Enclosed
	None required (government interest not affecting title
	Casto Induite (Bases)
City: Westfield	8. Payment Information
State: NJ Zip: 07090	a. Credit Card Last 4 Numbers
Phone Number: (908) 518-6383	Expiration Date
Fax Number: (908) 654-0415	b. Deposit Account Number 12-1095
Email Address: kkocun@ldlkm.com	Authorized User Name Kevin M. Kocun
9. Signature:	
7/7/	
Signature	Date
Kevin M. Kocun - 54,230	Total number of pages including cover sheet, attachments, and documents:
Name of Person Signing	Silect, attacimisma, and accuments.

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PATENT REEL: 025635 FRAME: 0008 03/13/2008 18:14 FAX 18086547888

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FORM PTC-1575 (Bev. 99'04)	U.S. DEPARTMENT OF COMMERCE Limited States Patient and Tradement Office	
RECORDATION FORM COVER SHEET		
PATENTS ONLY		
To the Oirector of the U.S. Peters and Trademerk Office: Please	record the attached documents or the new address(es) below.	
1. Name of conveying party(les)/Execution Date(s):	2. Name and address of receiving party(lee)	
ERIC JONES (1/3/2006), CHRISTOPHER J.		
SUTCLIFFE (3/3/2006), AND ROBIN STAMP		
(3/3/2006)	Name: HOWMEDICA OSTEONICS CORP.	
	Internal Address:	
Execution Data(s): In parentheses after inventor name	Street Address:	
Assessment regress(s) of cultiveying party(les) sensitivel? Yes X No		
	325 CORPORATE DRIVE	
\$. Nature of Conveyence;	323 0010 0101	
X Assignment Merger	S.CAYDY/AYI	
Security Agreement Change of Name	City: MAHWAH	
Government Interest Assignment	State: NEW JERSEY	
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 07430	
	Additional name(s) & midress(sii) Yes X No	
	This gooknest is being flied together with a new application.	
4. Application or patent number(e): A. Patent Application No.(e)	B. Pateril No.(s)	
11/295,008		
· /	•	
Additional numbers stlached		
5. Name and eddress to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:	
Name: Raymond Garguño, Jr.		
LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00	
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Internal Address: Atty. Dist.:	Authorized to be charged by credit card	
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Street Address: 600 South Avenue West	X Authorized to be sharged to deposit account	
	Enclosed	
	None required (government interest not affecting title)	
City: Weatherd	s. Payment information	
State: NJ Zip; 07090	e, Credit Card Last 4 Numbers	
Phone Number: (908) 518-6342	Expiration Date	
Fix Number: (908) 654-0418	b. Deposit Account Number 12-1095 Authorized User Name Raymond Garguillo, Jr.	
Emel Address rgerquilo@idikm.com	A commence of the commence of	
(9. Signature: (
	March 13, 2005	
Signature Powerout Compile It - 50 P30		
Reymond Garguilo, Jr 50,930 Name of Person Signing	sheet, stachments, and documents:	

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PATENT REEL: 017332 FRAME: 0691

PATENT

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O: KEVIN M. KOCUN COMPANY: LERNER, DAVID, LITTENBERG, ET AL

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08/19/2010 700444125 + USPTO ASSIGNMENT 2002/007

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Form PTO-1595 (Rev 49: 194)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademant Office
OME No. 0651-0027 (exp. 6/30/2005) RECORDATION FOR	
PATENTS	ONLY
To the Director of the U.S. Patent and Trademark Office: Please	secret the offseked decrements of the new address (as) below.
	2. Alama and address of receiving party(les)
1. Name of conveying party(les)/Execution Date(s): ERIC JONES (01/03/2006), CHRISTOPHER J.	The second distribution of the second
SUTCLIFFE (03/03/2006), AND ROBIN STAMP	
(03/03/2006)	VANAGRIO A OSTFONICO CORR
	Name: HOWMEDICA OSTEONICS CORP.
The state of the s	Internal Address:
Execution Date(a): In parentheses after inventor name Additional mene(s) of conveying party(les) attached? Yes X No	
	325 CORPORATE DRIVE
3. Nature of Conveyance:	1 323 CORT ON CATE DRIVE
Assignment	
Security Agraement Change of Name	Chy: MAHWAH
Government Interest Assignment	State: NEW JERSEY
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 07430
N Other Re-record to replace assignment Document Ried under Reel 017332, Frame 0891	Additional name(s) & address(ss) Yes X No attached;
Application or patent number(s):	This document is being thad together with a new application.
A. Patent Application No.(s)	B. Pelant No.(e)
11/295,008	
Additional numbers etteched?	Yes X No
5. Name and address to whom correspondence concerning document should be mailed:	8. Total number of applications and quantum patents involved:
Name: Kevin M. Kocun	
LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP	7. Total fee (37 CFR 3.21(h) & 3.41) \$ 40.00
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Internal Address, Atty. Dkt.: OSTEONICS 3.0-656	Authorized to be charged by credit card
Street Address: 600 South Avenue West	X Authorized to be charged to deposit account
	Enclosed
	None required (government interest not affecting title)
City: Westfield	8. Payment Information
State: NJ Zip: 07090	e. Credit Card Lest 4 Numbers Expiration Date
Phone Number: (908) 518-6383 Fax Number: (908) 654-0415	b. Deposit Account Number 12-1095
Fax Number: (908) 654-0415 Email Address: kkocun@fdikm.com	Authorized User Name Kevin M. Kocun
9. Signature:	
7-2/	August 19, 2010
Signature	Oaks
Kevin M. Kocun - 54.230	Total number of pages including cover 8
Name of Person Signing	sheet attachments, and documents:

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Date
7/hOct.09

former PTO/SB/15 (8-00) Modified LOLKAN			
	Docket Number (Optional)		
ASSIGNMENT OF UTILITY APPLICATION	OSTEONICS 3:0-556		
Whereas, I,Eric Jones	of		
Ardlahan, Kildimo Co.; Limerick; IRELAND	, , , , , , , , , , , , , , , , , , , ,		
hereafter referred to as assignor, have with others invented certal LASER-PRODUCED POROUS SURFACE	ain new and useful improvements in		
for which an application for a United States Letters Pate Application Number 11/295,008	ent was filed onDecember 6, 2005		
for which an application for a United States Letters Pater	nt was executed by me on ,		
New Jersey Whereas, Howmedica Osteonics Corp. a corporation of herein referred to as "assignee" whose mailing 325 Corporate Drive; Mahwah, New Jersey 07430 is desirous of acquiring the entire right, title and interest in the sa			
NOW. THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks 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 representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.			
And I do hereby authorize my attorneys to insert on this deed the when known.	a June		
(Date) State of Select) SS: County of) Area	(Signature) ore me personally came the above-named Eric difference to me		
that the same was executed by him/her of his/her own free will fi			

X

*Total of

3

forms are submitted.

Date

former PTO/SB/15 (8-00) Modified LDLX&M

Whereas, I, Robin Stamp of Hardfield Close; MANCHESTER, M14 SLY; UNITED KINGDOM hereafter referred to as assignor, have with others invented certain new and useful improvements in LASER-PRODUCED POROUS SURFACE To which an application for a United States Letters Patent was field on Application with an application for a United States Letters Patent was field on Application with an application for a United States Letters Patent was secured by mis on and New Jersey Whereas, Howmedica Osteonics Corp. Corporation on Not herein referred to as "assignee" whose mailing address is 326 Central Drive; Mahamah, New Jelgey 07430 is desirous of acquiring the entire right, fille and interest in the same; NOW, THEREFORE, in consideration of the sum of gmb dollars (\$ 1,00), the receipt whereas assignee in writer right, the and interest for the United States of America and all other countries in and to said invention and the aforesald utility patent application and all original, divisional, continuation, confluration-in-part, autistitute or riessue applications and patents applied for granted therefor in the United States of America and all other countries, for said inventions, including without initiation all applications and countries, for said inventions, and improvements or resulting initiation all applications and patents applied for granted therefor in the United States of America and all other countries, for said inventions, including without initiation all applications and patents of said invention, confluration-in-part, and other countries, for said inventions, including without initiation all applications and patents of said invention and patents and and improvements or resulting infertion to any law or article and requires the countries for additive all displaced and improvements or resulting the form to any law or article and requires the closure all interests; and the undersigned for me and my legal representations, assignee of the entire interest in said improvements or resulting the form to be undersigned f		Docket Number (Optional)	
14 Hadfield Close; MANCHESTER, M14 SLY; UNITED KINGDOM hereafter referred to as assignor, have with others invented certain new and useful improvements in LASER-PRODUCED POROUS SURFACE To which an application for a United States Letters Patent was filed on December 6, 2005 Application Number 11/295,008 To revision an application for a United States Letters Patent was siled on December 6, 2005 Application Number 11/295,008 To revision an application for a United States Letters Patent was executed by mis on and New Jersey Whereas, Howmedica Osteonics Corp. a corporation for herein referred to as "assignee" whose mailing address is 326 Corporate Drive; Mahwah, New Jeriey 07430 is destrous of acquiring the entire right, fille and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1,00), the receipt whereof is acknowledged, and other good and valuable consideration, I at assignor hereby sell, assign and set over to said assignee my entire right; title and interest for the United States of America and all other countries in and to said invention and the aforeated utility patient application and all original, divisional, continuation, continuation, continuation, origination-in-part, to all the aforeated utility patient application pursuant to any law or treaty, and including the right to claim such priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioned or Patents and Trademarks is the nereby sultionization and application claiming priority or benefit and the Commissioned or Patents and Trademarks is the nereby sultionized and requires and continuation of a continuation or said improvements on a substitute and assignee of the entire interest in season and the substitute of the advisagned for me and my legal professionatives, heirs and assignee of its assigns, the substitute of the said applications of patents and substitute of its assigns on the patents on said applicati	ASSIGNMENT OF UTILITY APPLICATION	OSTEONICS 3.0-556	
14 Hadfield Close; MANCHESTER, M14 SLY; UNITED KINGDOM hereafter referred to as assignor, have with others invented certain new and useful improvements in LASER-PRODUCED POROUS SURFACE To which an application for a United States Letters Patent was filed on December 6, 2005 Application Number 11/295,008 To revision an application for a United States Letters Patent was siled on December 6, 2005 Application Number 11/295,008 To revision an application for a United States Letters Patent was executed by mis on and New Jersey Whereas, Howmedica Osteonics Corp. a corporation for herein referred to as "assignee" whose mailing address is 326 Corporate Drive; Mahwah, New Jeriey 07430 is destrous of acquiring the entire right, fille and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1,00), the receipt whereof is acknowledged, and other good and valuable consideration, I at assignor hereby sell, assign and set over to said assignee my entire right; title and interest for the United States of America and all other countries in and to said invention and the aforeated utility patient application and all original, divisional, continuation, continuation, continuation, origination-in-part, to all the aforeated utility patient application pursuant to any law or treaty, and including the right to claim such priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioned or Patents and Trademarks is the nereby sultionization and application claiming priority or benefit and the Commissioned or Patents and Trademarks is the nereby sultionized and requires and continuation of a continuation or said improvements on a substitute and assignee of the entire interest in season and the substitute of the advisagned for me and my legal professionatives, heirs and assignee of its assigns, the substitute of the said applications of patents and substitute of its assigns on the patents on said applicati	and the second s		
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hereafter referred to as assignor, have with others invented certain new and useful improvements in LASER-PRODUCED POROUS SURFACE Tor which an application for a United States Letters Patent was filed on December 6, 2005	Whereas, I, Room Stamp		
LASER-PRODUCED POROUS SURFACE for which an application for a United States Letters Patent was filed on December 6, 2005 Application Number 11/295,008			
for which an application for a United States Letters Patent was filed on December 6, 2005 Application Number 11/285,008 for which an application for a United States Letters Patent was executed by mis on and heart an application for a United States Letters Patent was executed by mis on and heart and selection of herein referred to as 'assignee' whose mailing address is 326 Corporate Drive; Mahwah, New Jegies 07430 is destinous of acquiring the entire right, fills and interest in the same; NOW, THEREPORE, in consideration of the sum of one dollars (\$ 1,00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, fills and interest in the Same; NOW, THEREPORE, in consideration of the sum of one dollars (\$ 1,00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right. With an address of the said invention and all other countries, for said invention and patents and all other countries in and to said continuation, continuation, continuation, continuation, continuation on continuation continuation continuation continuation of patents on said improvements or restricting hierarching in the reform to said assignee herein, as assignee of the entire interest therefor, and the undersigned for me and my legal representatives, hiers and assigns do hereby agries and covenant without further remuneration, to execute and editorer all original, divisional, continuation, relasses and other applications for Letters Patent, on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or means and accoverant without further remuneration, to execute and editorer all original, obtaining, continuation, relasses and other applications for patents on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its assigns,		att tiem affir ascidi imbiosettetus iii	
Application Number 11/285,008 for which an application for a United States Letters Pétent was executed by me on and and New Jersey. Whereas, Howmedica Osteonics Corp. a corporation on herein referred to as 'assignee' whose mailing address is 326 Corporate Drive; Mahwah, New Jegiey 07430 is destirous of acquiring the entire right, fille and interest in the same; NOW, THEREPORE, in consideration of the sum of one dollars (\$ 1,00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest in the same; NOW, THEREPORE, in consideration of the sum of one dollars (\$ 1,00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right. title and interest for the United States of America and all other countries in and flo said invention and the aforesaid utility patient application and all origina, divisional, continuation, continuation-in-part, substitute or reissue applications and patients in a said invention claiming principly or benefit of the storesaid utility deplication pursuant to any law or treaty, and including the right to calam such priority or benefit of the storesaid utility deplication pursuant to any law or treaty, and including the right to calam such priority or benefit and the Commissioner of Patients and Trademarks is hereby authorized and required to issue all patients on said improvements or resulting thereform to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, hierary remuneration, to execute and deliver all original, divisional, continuation, relasses and other applications for Letters Patient, on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee its successor's, assigns and hominees to obtain patient protection, for said improvements in al	LASER-PRODUCED POROUS SURFACE	0	
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New Jersey Whereas, Howmedica Osteonics Corp. a corporation on herein referred to as "assignee" whose mailing address is 326 Corporate Driver, Mahwah, New Jegley 07430 is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1,00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right. Itle and interest to the United States of America and all other countries in and to said invention and the aforesaid utility patient application and all original, divisional, continuation, continuation—in-part, substitute or reissue applications and patients for said invention and the aforesaid utility after application and patients for said invention claiming priority or benefit of the aforesaid utility deplication pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissionite of Patients and Trademarks is hereby authorized and requested to issue patients or said improvements or resulting therefrom to said assignee brain, as assignee to the entire interest tierein; and the undersigned for me and my legal representatives, helrs and assignee to the entire interest tierein; and the undersigned for me and my legal representatives, helrs and assignee to ris assigns, to communicate for Letters Patent on said improvements and all assignmeis thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful ouths, and to do generally everything necessary to additionate and the said assignee is successors, assigns and nominees to obtain patent protection for said improvements whenever requested, to testify in any interferences	Application Number 11/295,008		
Whereas, Howmedica Osteonics Corp. a corporation on herein referred to as "assignee" whose mailing address is 325 Corporate Drive: Mahivah. New Jedgey 07430 is destrous of acquiring the entire right, filte and Interest in the same: NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1,00), the receipt whereof is acknowledged, and other good and valuable consideration. I as assignor hereby sell, assign and set over to said assignee my entire right, title and Interest for the United States of America and all other countries in and to said invention and the aforesaid utility patient spipled for or granted therefor in the United States of America and all other countries in and to said invention and the aforesaid utility patient spipled for or granted therefor in the United States of America and all other countries, for said invention, incliding without limitation all applications and patients for said invention inclination or insulation and patients or said invention, incliding without limitation all applications and patients for said invention claiming price processor and interest in the same property or benefit and the Commissionier of Patients and Trademarks is hereby authorized and requested to issue all patients on said improvements or exactive and elever all drightal, divisional, continuation, relasses and other applications for Letters Patient on said improvements and all sasignments thereof to said assignee or its respectatives all facts known to the undersignee or its results whenever requested to testify in any interferences or other legal proceedings in which any of said applications or patients may become involved to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and official proceedings in which any of said applications or patients may become involved to said applications to be borne and paid by said assignee. And I do hereby authorize my attorneys to insert on this deed the filling date and application unm	for which an application for a United States Letters Pater	nt was executed by me on	
Mhereas, a corporation of herein referred to as 'assignee' whose mailing address is 326 Corporate Drive; Mahivah, New Jetisey 07430 is desirous of acquiring the entire right, fille and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patient application and all original, divisional, continuation, continuation, including without limitation all applications, and patents for said invention, including without limitation all applications and patents for said invention, including without limitation all applications and patents for said invention claiming priority or benefit and the foresaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requirements or exclude and equiver all original, divisional, continuation, release and coverant without further remuneration, to execute and deliver all original, divisional, continuation, release and other applications for Letters Patent on said improvements and assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements and assignee in the representatives and lassignments thereof to said assignee or its assigns, to communicate to said assignee in the representatives and lassignments thereof to said assignee and coverant requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and normal particular particul	and .		
Mhereas, a corporation of herein referred to as 'assignee' whose mailing address is 326 Corporate Drive; Mahivah, New Jetisey 07430 is desirous of acquiring the entire right, fille and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patient application and all original, divisional, continuation, continuation, including without limitation all applications, and patents for said invention, including without limitation all applications and patents for said invention, including without limitation all applications and patents for said invention claiming priority or benefit and the foresaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requirements or exclude and equiver all original, divisional, continuation, release and coverant without further remuneration, to execute and deliver all original, divisional, continuation, release and other applications for Letters Patent on said improvements and assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements and assignee in the representatives and lassignments thereof to said assignee or its assigns, to communicate to said assignee in the representatives and lassignments thereof to said assignee and coverant requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and normal particular particul			
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is desirous of acquiring the entire right, fille and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right; title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patient application and all original, divisional, continuation, continuation-in-part, substitute of reissue applications and pittents application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and pittents application and all original, divisional, continuation, continuation-in-part, substitute of reissue applications and pittents applications and patients for said invention (holding without limitation all applications and patients for said invention claiming priority or benefit of the aforesaid utility deplication pursuant to any law or treaty, and including the right to claim such priority or benefit of the documents on resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and coverant without further remuneration, to execute and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting sain provements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all swritt papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successory, assigns and hominees to obtain patient protection, for said improvements in all countries, the expenses incident to said applications to be borne and poid by said assignee. And I do hereby authorize my attorneys to Insert on this deed the filin	Whereas, Howmedica Osteonics Corp.	address is:	
is desirous of acquiring the entire right, fille and interest in the same: NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration. I as assignor hereby sell, assign and set over to said assignee my entire right, title end interest for the United States of America and all other countries in and to said invention and the aforesaid utility patient application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patients applications and patients applied for or granted therefor in the United States of America and all other countries, for said invention, Incidding without limitation all applications, and patients or said improvements or resulting therefrom to said assignee or the entire interest trierien; and the undersigned for me and my legal representatives, heirs and assignee of the entire interest trierien; and the undersigned for me and my legal representatives, heirs and assignee or its assigns, to communicate to said assignee or its representatives and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its successors, assigns and nominees to obtain patient protection, for said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all swritt papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patient protection, for said improvements in all countries, the expenses incident to said applications to be borned and paid by said assignee. On this 3rd day of 100 to 100 t		- MANAGE	
NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right. title end interests for the United States of America and all other countries in and to said convention and the aforesaid utility patient application and all priginal, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks 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 thereor, and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further renuneration, to execute and deliver all drights, divisional, continuation, relesses and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its assigns, to communicate to said assignee in the representatives all fracts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papter, make all rightful pates, and to do generally everything necessary to aid assignee. And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known. On this 3rd day of Local 2000 before me personally carne the above-named Robin (Notary Public).	is designed a acquiring the entire right, fille and interest in the s	ame:	
is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and Interest for the United States of America and all other countries in and to said invention and the aforesaid utility patient application and all original, divisional, continuation, contin	· · · · · · · · · · · · · · · · · · ·		
(Date) (Date) (Signature) State of (Signature) On this 3rd day of 1/0 20 20 before me personally came the above named Robin Stamp, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth.	assignee my entire right, title and Interest for the United Statinvention and the aforesald utility patent application and all substitute or reissue applications and patents applied for or grother countries, for said invention, including without limitation 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 representation without further remuneration, to execute and deliver all original, for Letters Patent on said improvements and all assignments 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 pate expenses incident to said applications to be borne and paid by	les 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 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 all assignee herein, as assignee of the entire interest ves, helrs and assigns do hereby agree and covenant divisional, continuation, relsage and other applications hereof to said assignee or its assigns, to communicate undersigned respecting said improvements, whenever dings in which any of said applications or patents may saths, and to do generally everything necessary to aid in protection for said improvements in all countries, the said assignee.	
State of		n e e	
State of	02 100 100	Worken The	
State of		(Signature)	
On this 3rd day of Various 7005 before me personally came the above-named Robin Stamp, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth. (Notary Public)		(Orbitatole)	
Stamp, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes therein set forth. (Notary Public)			
	Stamp, to me personally known as the individual who execu-	ted the foregoing instrument, who acknowledged to me	
	Stamp, to me personally known as the individual who execu-	ted the foregoing instrument, who acknowledged to me	
Total of 3 forms are submitted.	Stamp, to me personally known as the individual who executed by him/her of his/her own free will	ted the foregoing instrument, who acknowledged to me	
	Stamp, to me personally known as the individual who executed by him/her of his/her own free will	ted the foregoing instrument, who acknowledged to me	

PATENT

REEL: 025635 FRAME: 0012

former PTO/SB/15 (8-00) Modified LDLK&M

	Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	OSTEONICS 3.0-556
Whereas I, Christopher J. Sutcliffe	
Univ. of Liverpool; Fac. of Eng., Victoria Bldg., Brownlow	Hill; LIVERPOOL; L69 3GH; UNITED KINGDOM
nereafter referred to as assignor, have with others invented certain nev	v and useful Improvements in
LASER-PRODUCED POROUS SURFACE	A
X for which an application for a United States Letters Pat	ent was filed onDecember 6, 2005
Application Number 11/295,008	
for which an application for a United States Letters Pate	nt was executed by me on ,
and	
New Jersey	
Whereas, Howmedica Osteonics Corp.	
a corporation of herein referred to as "assignee" whose mailing addre	\$\$ I\$
325 Corporate Drive; Mahwah, New Jersey 07430 is desirous of acquiring the entire right, title and interest in the same;	
a desirate of soduring the entire right and and interest in the same,	
NOW, THEREFORE, in consideration of the sum of one	dollars (\$ 1.00), the receipt whereof
is acknowledged, and other good and valuable consideration, I as as my entire right, title and interest for the United States of America a	isignor nereby sell, assign and set over to said assigned and all other countries in and to said invention and the
aforesaid utility patent application and all original, divisional, C	ontinuation, continuation-in-part, substitute or reissue
applications and patents applied for or granted therefor in the Uni	ted States of America and all other countries, for said
invention including without limitation all applications and patents for	said invention claiming priority or benefit of the aforesaid
utility application pursuant to any law or treaty, and including the right Patents and Trademarks is hereby authorized and requested to issue	to claim such priority or benefit and the Commissioner of
to said assignee herein, as assignee of the entire interest therein; at	nd the undersigned for me and my legal representatives.
beirs and asslors do hereby agree and covenant without further ren	nuneration, to execute and deliver all original, divisional
continuation, reissue and other applications for Letters Patent on s	said improvements and all assignments thereof to said
assignee or its assigns, to communicate to said assignee or its repressaid improvements, whenever requested, to testify in any interfere	ences or other legal proceedings in which any of said
applications or natents may become involved, to sign all lawful paper	rs, make all rightful caths, and to do generally everything
necessary to aid assignee, its successors, assigns and nominees	to obtain patent protection for said improvements in al
countries, the expenses incident to said applications to be borne and p	paid by said assignee.
And I do hereby authorize my attorneys to insert on this deed the fill	ng date and application number of said application when
known.	
3/3/06	CSIMI
(Date)	(Signature)
State of	
County of	
On this 3rd day of Warch , 2006 before me	e personally came the above-named Christopher J
Sutcliffe, to me personally known as the individual who executed the same was executed by him/her of his/her own free will for the purpose	e toregoing instrument, who acknowledged to me that the es therein set forth.
C. Merray	
(Notary Public)	
Treating Comments Comments and the Comments of	
x *Total of 3 forms are submitted.	-
LD-528\	
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PATENT REEL: 025635 FRAME: 0013