

Form PTO-1595 (Rev. 09/04)  
OMB No. 0651-0027 (exp. 6/30/2005)

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

### RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

<p><b>1. Name of conveying party(ies)/Execution Date(s):</b> ERIC JONES (01/03/2006), CHRISTOPHER J. SUTCLIFFE (03/03/2006), AND ROBIN STAMP (03/03/2006)</p> <p>Execution Date(s): <u>In parentheses after inventor name</u></p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p><b>2. Name and address of receiving party(ies)</b></p> <p>Name: <u>HOWMEDICA OSTEONICS CORP.</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>325 CORPORATE DRIVE</u></p> <p>City: <u>MAHWAH</u></p> <p>State: <u>NEW JERSEY</u></p> <p>Country: <u>United States of America</u> Zip: <u>07430</u></p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p><b>3. Nature of Conveyance:</b></p> <p><input type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Government Interest Assignment</p> <p><input type="checkbox"/> Executive Order 9424, Confirmatory License</p> <p><input checked="" type="checkbox"/> Other <u>Re-record to replace assignment Document filed under Reel 017332, Frame 0691</u></p>	

**4. Application or patent number(s):**  This document is being filed together with a new application.

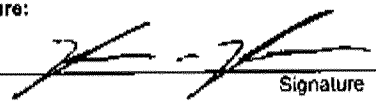
A. Patent Application No.(s)  
11/295,008

B. Patent No.(s)

Additional numbers attached?  Yes  No

<p><b>5. Name and address to whom correspondence concerning document should be mailed:</b></p> <p>Name: <u>Kevin M. Kocun</u> <u>LERNER, DAVID, LITTENBERG,</u> <u>KRUMHOLZ &amp; MENTLIK, LLP</u></p> <p>Internal Address: Atty. Dkt.: <u>OSTEONICS 3.0-556</u></p> <p>Street Address: <u>600 South Avenue West</u></p> <p>City: <u>Westfield</u></p> <p>State: <u>NJ</u> Zip: <u>07090</u></p> <p>Phone Number: <u>(908) 518-6383</u></p> <p>Fax Number: <u>(908) 654-0415</u></p> <p>Email Address: <u>kkocun@ldlkm.com</u></p>	<p><b>6. Total number of applications and patents involved:</b> <u>1</u></p> <p><b>7. Total fee (37 CFR 1.21(h) &amp; 3.41) \$</b> <u>40.00</u></p> <p><input type="checkbox"/> Authorized to be charged by credit card</p> <p><input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p><input type="checkbox"/> Enclosed</p> <p><input type="checkbox"/> None required (government interest not affecting title)</p> <p><b>8. Payment Information</b></p> <p>a. Credit Card Last 4 Numbers _____ Expiration Date _____</p> <p>b. Deposit Account Number <u>12-1095</u> Authorized User Name <u>Kevin M. Kocun</u></p>
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**9. Signature:**

 January 5, 2011

Signature Date

Kevin M. Kocun - 54,230 Total number of pages including cover sheet, attachments, and documents: 6

Name of Person Signing

Form PTO-1575 (Rev. 09/04)  
Case No. 0851-0027 (exp. 03/02/2008)

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

**RECORDATION FORM COVER SHEET  
PATENTS 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)/Execution Date(s):  
**ERIC JONES (1/3/2006), CHRISTOPHER J. SUTCLIFFE (3/3/2006), AND ROBIN STAMP (3/3/2006)**

Execution Date(s): in parentheses after inventor name  
Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Government Interest Assignment  
 Executive Order 8424, Confirmatory License  
 Other

2. Name and address of receiving party(ies)  
Name: **HOWMEDICA OSTEONICS CORP.**  
Internal Address:  
Street Address:  
**325 CORPORATE DRIVE**  
City: **MAHWAH**  
State: **NEW JERSEY**  
Country: **United States of America** Zip: **07430**  
Additional name(s) & address(es) attached?  Yes  No

4. Application or patent number(s):  This document is being filed together with a new application.  
A. Patent Application No.(s)  
**11/295,008**  
B. Patent No.(s)  
Additional numbers attached?  Yes  No


5. Name and address to whom correspondence concerning document should be mailed:  
Name: **Raymond Garguilo, Jr., LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP**

Internal Address: **Atty. Dkt.**  
Street Address: **600 South Avenue West**

City: **Westfield**  
State: **NJ** Zip: **07080**  
Phone Number: **(908) 618-6342**  
Fax Number: **(908) 654-0415**  
Email Address: **rgarguilo@dlkm.com**

6. Total number of applications and patents involved: **1**  
7. Total fee (37 CFR 1.21(h) & 3.41) \$ **40.00**  
 Authorized to be charged by credit card  
 Authorized to be charged to deposit account  
 Enclosed  
 None required (government interest not affecting fee)

8. Payment Information  
a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_  
b. Deposit Account Number **12-1095**  
Authorized User Name **Raymond Garguilo, Jr.**

9. Signature:  **Raymond Garguilo, Jr. - 50,930**  
Signature Date: **March 13, 2008**  
Total number of pages including cover sheet, attachments, and documents: **4**

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

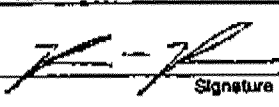
08/19/2010 18:15 FAX 8086547886

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700444125

+ USPTO ASSIGNMENT 002/007

Form PTO-1595 (Rev. 09/14)  
OMB No. 0651-0027 (exp. 6/30/2008)

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY	
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.	
<b>1. Name of conveying party(ies)/Execution Date(s):</b> ERIC JONES (01/03/2006), CHRISTOPHER J. SUTCLIFFE (03/03/2006), AND ROBIN STAMP (03/03/2006)  Execution Date(s): In parentheses after inventor name Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>2. Name and address of receiving party(ies)</b>  Name: <u>HOWMEDICA OSTEONICS CORP.</u> Internal Address: _____ Street Address: <u>325 CORPORATE DRIVE</u>  City: <u>MAHWAH</u> State: <u>NEW JERSEY</u> Country: <u>United States of America</u> Zip: <u>07430</u> Additional name(s) & address(es) attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>3. Nature of Conveyance:</b> <input type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input checked="" type="checkbox"/> Other <u>Re-record to replace assignment Document filed under Reel 017332, Frame 0891</u>	
<b>4. Application or patent number(s):</b> A. Patent Application No. (s) <u>11/285,008</u>  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> This document is being filed together with a new application. B. Patent No.(s)  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>5. Name and address to whom correspondence concerning document should be mailed:</b> Name: <u>Kevin M. Kocun</u> <u>LERNER, DAVID, LITTENBERG,</u> <u>KRUMHOLZ &amp; MENTLIK, LLP</u>  Internal Address, Atty. Dkt.: <u>OSTEONICS 3.0-666</u>  Street Address: <u>600 South Avenue West</u>  City: <u>Westfield</u> State: <u>NJ</u> Zip: <u>07080</u> Phone Number: <u>(908) 518-8383</u> Fax Number: <u>(908) 654-0415</u> Email Address: <u>kkocun@ldlkm.com</u>	<b>6. Total number of applications and patents involved:</b> <u>1</u>  <b>7. Total fee (37 CFR 1.21(f) &amp; 3.41)</b> \$ <u>40.00</u>  <input type="checkbox"/> Authorized to be charged by credit card <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)
<b>8. Payment Information</b> a. Credit Card Last 4 Numbers _____ Expiration Date _____ b. Deposit Account Number <u>12-1095</u> Authorized User Name <u>Kevin M. Kocun</u>	
<b>9. Signature:</b>  Signature _____ Date <u>August 19, 2010</u> <u>Kevin M. Kocun - 54.230</u> Name of Person Signing _____ Total number of pages including cover sheet, attachments, and documents: <u>8</u>	

CH 540.00 121095 11295003

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

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

OSTEONICS 3:0-556

Whereas, I, Eric Jones of Ardlahan, Kildimo Co.; Limerick; IRELAND

hereafter referred to as assignor, have with others invented certain new and useful improvements in

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 executed by me on \_\_\_\_\_ and

New Jersey

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;

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 filing date and application number of said application when known.

01/03/06

(Date)

[Signature]

(Signature)

State of Ireland ) SS:  
County of \_\_\_\_\_ )

On this 1<sup>st</sup> day of March 2006 before me personally came the above-named Eric Jones, 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.

[Signature]  
(Notary Public)

\*Total of 3 forms are submitted.

[Initial]  
07/10/09  
Date  
7<sup>th</sup> Oct. 09

former PTO/SER15 (8-00) Modified LDLKM

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) <b>OSTEONICS 3.0-556</b>
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Whereas, I, Robin Stamp of  
14 Hadfield Close; MANCHESTER; M14 5LY; UNITED KINGDOM

hereafter referred to as assignor, have with others invented certain new and useful improvements in  
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 executed by me on \_\_\_\_\_  
 and \_\_\_\_\_

New Jersey

Whereas, Howmedica Osteonics Corp.

a corporation of N.J. herein referred to as "assignee" whose mailing address is:

326 Corporate Drive; Mahwah, New Jersey 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, 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 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 filing date and application number of said application when known.

03/03/06  
 (Date)

[Signature]  
 (Signature)

State of UK ) SS:  
 County of \_\_\_\_\_ )

On this 3rd day of March 2006 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.

[Signature]  
 (Notary Public) [Signature]

Total of 3 forms are submitted.

RS  
 Initial

12 Aug 2010  
 Date

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

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional) <b>OSTEONICS 3.0-556</b>
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Whereas I, Christopher J. Sutcliffe  
Univ. of Liverpool; Fac. of Eng., Victoria Bldg., Brownlow Hill; LIVERPOOL; L69 3GH; UNITED KINGDOM

hereafter referred to as assignor, have with others invented certain new and useful improvements in

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 executed by me on \_\_\_\_\_  
 and

New Jersey

Whereas, Howmedica Osteonics Corp.  
 a corporation of \_\_\_\_\_ herein referred to as "assignee" whose mailing address is

325 Corporate Drive; Mahwah, New Jersey 07430

CS  
 Initial  
29/9/05  
 Date

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, 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 filing date and application number of said application when known.

3/3/06  
 (Date)

[Signature]  
 (Signature)

State of UK ) SS:  
 County of \_\_\_\_\_ )

On this 3rd day of March, 2006 before me personally came the above-named Christopher J. Sutcliffe, 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.

[Signature]  
 (Notary Public) Christopher J. Sutcliffe

\*Total of 3 forms are submitted.

LD-528\

**PATENT**

**RECORDED: 08/19/2010**

**REEL: 025635 FRAME: 0013**