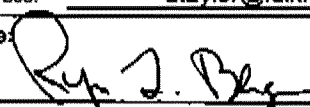


Form PTO-1595 (Rev. 03-11)
OMB No. 0651-0027 (exp. 03/31/2015)

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): Stryker Ireland Ltd. Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 2. Name and address of receiving party(ies) Name: <u>Howmedica Osteonics Corp.</u> Internal Address: _____ Street Address: _____ 325 Corporate Drive 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 3. Nature of conveyance/Execution Date(s): Execution Date(s): <u>March 2, 2013</u> <input type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Security Agreement <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order B424, Confirmatory License <input checked="" type="checkbox"/> Other <u>Confirmatory Assignment</u> | 4. Application or patent number(s): <input type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) <u>13/441,154</u> B. Patent No.(s) _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 5. Name and address to whom correspondence concerning document should be mailed: Name: <u>Ryan L. Bergeron</u> <u>LERNER, DAVID, LITTENBERG,</u> <u>KRUMHOLZ & MENTLIK, LLP</u> Internal Address: <u>Atty. Dkt.</u> Street Address: <u>600 South Avenue West</u> City: <u>Westfield</u> State: <u>NJ</u> Zip: <u>07090</u> Phone Number: <u>908-654-5000</u> Fax Number: <u>908-654-7866</u> Email Address: <u>ataylor@ldlkm.com</u> | 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ <u>40.00</u> <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) |
| 8. Payment Information Deposit Account Number <u>12-1095</u> Authorized User Name <u>Ryan L. Bergeron</u> | |
| 9. Signature: <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 60%;">  _____ Signature <u>Ryan L. Bergeron - 66,377</u> Name of Person Signing </div> <div style="width: 35%; text-align: center;"> <u>4/17/13</u> _____ Date </div> </div> <div style="display: flex; justify-content: flex-end; margin-top: 10px;"> Total number of pages including cover sheet, attachments, and documents: 4 </div> | |

CH \$40.00 121095 13441154

| RECORDATION FORM COVER SHEET (PTO-1595) (supplemental sheet) | |
|--|---|
| Additional Conveying Party(ies)/Execution Date(s) (1. Continued): | |
| Additional Assignees (2. Continued): | |
| Assignee Name: <u>The University Of Liverpool</u> | |
| Internal Address: | |
| Street Address: <u>The Foundation Building,</u> <u>765 Brownlow Hill</u> | |
| City: <u>Liverpool</u> State: _____ Country: <u>United Kingdom</u> Zip: <u>L69 7ZX</u> | |
| Assignee Name: _____ | |
| Internal Address: | |
| Street Address: | |
| City: _____ State: _____ Country: _____ Zip: _____ | |
| Assignee Name: _____ | |
| Internal Address: | |
| Street Address: | |
| City: _____ State: _____ Country: _____ Zip: _____ | |
| Additional Applications and/or Patents (4. Continued): | |
| Additional Patent Application Numbers 4A. Continued: | Additional Patent Numbers 4B. Continued: |
| Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No | |

CONFIRMATORY ASSIGNMENT

This Confirmatory Assignment is entered into by HOWMEDICA OSTEONICS CORPORATION, a corporation incorporated and registered in New Jersey having a place of business at 325 Corporate Drive, Mahwah, New Jersey 07340, U.S.A. ("HOC"), the University of Liverpool, having a place of business at The Foundation Building, 765 Brownlow Hill, Liverpool, L69 7ZX, UNITED KINGDOM ("UNIVERSITY"), HOC and UNIVERSITY hereinafter referred to collectively as "the ASSIGNEES", and STRYKER IRELAND LIMITED, a limited liability company incorporated and registered in Ireland having a place of business at IDA Industrial Estate, Carrigtwohill, Cork IRELAND ("STRYKER IRELAND"), ASSIGNEES AND STRYKER IRELAND hereinafter referred to collectively as "the Parties"; and

WHEREAS, pursuant to an agreement entitled "Development and License Agreement" dated January 3, 2006 ("Prior Agreement"), the ASSIGNEES agreed that certain patents and patent applications arising from collaborative efforts conducted pursuant to the Prior Agreement shall be jointly owned by the ASSIGNEES; and

WHEREAS, the Prior Agreement covers the inventive subject matter of U.S. Patent Application No. 13/441,154 ("the '154 Application"), and any patents (including any reissues or extensions thereof) that may issue on any such application or on any other application that shall be filed as a substitute for, or a division, continuation or continuation-in-part of, the '154 Application or patent applications of any other country corresponding to the '154 Application ("the Intellectual Property"); and

WHEREAS, STRYKER IRELAND and the ASSIGNEES wish to confirm that previous assignments of rights in and to at least certain of the Intellectual Property should have provided for joint ownership in and to the Intellectual Property by and between ASSIGNEES;

NOW, THEREFORE, with acknowledgement by the Parties of the receipt and exchange of valuable and sufficient consideration associated with the Prior Agreement and any agreements associated therewith, as well as other good and valuable consideration:

At least as of June 1, 2012, *nunc pro tunc*, STRYKER IRELAND hereby sells, assigns and sets over to the ASSIGNEES, and ASSIGNEES hereby accept, the right, title and interest, for the United States of America and all other countries in and to the Intellectual Property, including, without limitation, all of the rights set forth in the Prior Agreement; and

STRYKER IRELAND and the ASSIGNEES hereby agree that all previous agreements, including, but not limited to, any assignments providing for ownership in STRYKER IRELAND in the Intellectual Property shall be superseded pursuant to this Confirmatory Assignment.

ASSIGNEE,
HOWMEDICA OSTEONICS CORP.

By: [Signature]
Name: Al Zarnowski
Title: Vice President

Date: 3/1/13

Witness: [Signature] DWG WILLIAMS

Date: 01/MARCH

STRYKER IRELAND

By: [Signature]
Name: John Scanlon
Title: Director Advanced Materials

Date: MARCH 1 2013

Witness: [Signature] David O'Keefe

Date: 01/MARCH/2013

ASSIGNEE,
UNIVERSITY OF LIVERPOOL

By: [Signature]
Name: A CUNSWORTH
Title: IP MANAGER

Date: 2 March 2013

Witness: [Signature]

Date: 2 March 2013
IAN ASHTON