

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2679196

SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>ORHUN K. MURATOGLU</td> <td>12/06/2013</td> </tr> <tr> <td>KARTIK MANGUDI VARADARAJAN</td> <td>12/06/2013</td> </tr> <tr> <td>HENRIK MALCHAU</td> <td>12/06/2013</td> </tr> <tr> <td>HARRY E. RUBASH</td> <td>12/05/2013</td> </tr> <tr> <td>ANDREW A. FREIBERG</td> <td>11/18/2013</td> </tr> <tr> <td>MICHAEL PATRICK DUFFY</td> <td>11/19/2013</td> </tr> <tr> <td>THOMAS ZUMBRUNN</td> <td>11/19/2013</td> </tr> </tbody> </table>		Name	Execution Date	ORHUN K. MURATOGLU	12/06/2013	KARTIK MANGUDI VARADARAJAN	12/06/2013	HENRIK MALCHAU	12/06/2013	HARRY E. RUBASH	12/05/2013	ANDREW A. FREIBERG	11/18/2013	MICHAEL PATRICK DUFFY	11/19/2013	THOMAS ZUMBRUNN	11/19/2013
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CORRESPONDENCE DATA																	
Fax Number:	(414)271-3552																
Phone:	(414) 277-5000																
Email:	pat-dept@quarles.com																
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>																	
Correspondent Name:	QUARLES & BRADY LLP ATTN: IP DOCKET																
Address Line 1:	411 EAST WISCONSIN AVENUE																
Address Line 2:	SUITE 2350																
Address Line 4:	MILWAUKEE, WISCONSIN 53202																

ATTORNEY DOCKET NUMBER:	125141.00825
NAME OF SUBMITTER:	RICHARD T. ROCHE
Signature:	/Richard T. Roche/
Date:	01/13/2014
<p>Total Attachments: 9</p> <p>source=00825_Assignment#page1.tif</p> <p>source=00825_Assignment#page2.tif</p> <p>source=00825_Assignment#page3.tif</p> <p>source=00825_Assignment#page4.tif</p> <p>source=00825_Assignment#page5.tif</p> <p>source=00825_Assignment#page6.tif</p> <p>source=00825_Assignment#page7.tif</p> <p>source=00825_Assignment#page8.tif</p> <p>source=00825_Assignment#page9.tif</p>	

ASSIGNMENT

We, Orhun K. Muratoglu, having a mailing address of 5 Dana Street, Cambridge, Massachusetts 02138; Kartik Mangudi Varadarajan, having a mailing address of 131 Fairview Avenue, Belmont, Massachusetts 02478; Henrik Malchau, having a mailing address of c/o Massachusetts General Hospital, 55 Fruit Street, Boston, Massachusetts 02114; Harry E. Rubash, having a mailing address of 323 Wellesley Street, Weston, Massachusetts 02493; Andrew A. Freiberg, having a mailing address of 41 Ox Bow Road, Weston, Massachusetts 02493; Michael Patrick Duffy, having a mailing address of 274 Beacon Street, Unit 2, Boston, MA 02116; and Thomas Zumbrunn, having a mailing address of 26 Lowden Avenue, Apt. 1, Somerville, MA 02144, (hereinafter referred to as Assignors), and in consideration of One Dollar and other valuable consideration paid to us by

The General Hospital Corporation d/b/a Massachusetts General Hospital

a non-profit organization organized under and pursuant to the laws of United States of America having its principal place of business at 55 Fruit Street, Boston, Massachusetts 02114 (hereinafter referred to as Assignee), do hereby sell, assign and transfer unto said

The General Hospital Corporation d/b/a Massachusetts General Hospital

its successors and assigns, our entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

FEMORAL HEADS, MOBILE INSERTS, ACETABULAR COMPONENTS, AND MODULAR JUNCTIONS FOR ORTHOPEDIC IMPLANTS AND METHODS OF USING FEMORAL HEADS, MOBILE INSERTS, ACETABULAR COMPONENTS, AND MODULAR JUNCTIONS FOR ORTHOPEDIC IMPLANTS

described in an application filed in the United States Patent and Trademark Office on September 30, 2013, and assigned U.S. Application No. 14/039,287, which claims priority to U.S. Application No. 61/706,449 filed on September 27, 2012; U.S. Application No. 61/706,439 filed on September 27, 2012; U.S. Application No. 61/706,426 filed on September 27, 2012; and 61/784,272 filed on March 14, 2013, in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation

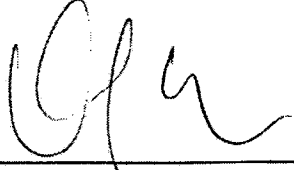
and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this ____ day of

_____, _____

(L.S.)




Orhun K. Muratoglu

STATE OF MA)

COUNTY OF Middlesex) ss:

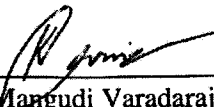
BE IT REMEMBERED, that on this 6th day of December, 2013, before me, a Notary Public, personally appeared Orhun K. Muratoglu, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

 (official signature and seal of notary)

My Commission Expires: 11/17/12

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this ____ day of

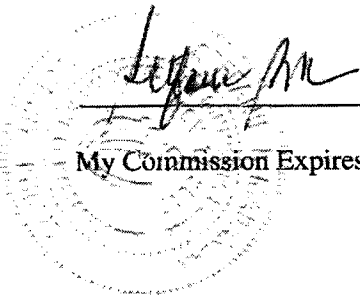
(L.S.)



Kartik Mangudi Varadarajan

STATE OF MASSACHUSETTS)
) ss:
COUNTY OF Middlesex)

BE IT REMEMBERED, that on this 6th day of December, 2013, before me, a Notary Public, personally appeared Kartik Mangudi Varadarajan, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

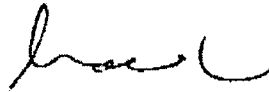
 (official signature and seal of notary)

My Commission Expires: 11/17/17

Attorney Docket No.: 22727-287
Application Serial No.: 14/039,287

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this ____ day of

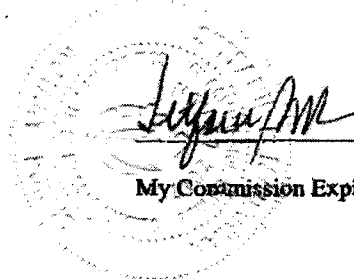
(L.S.)



Henrik Malchau

STATE OF MA)
COUNTY OF Middlesex) ss:

BE IT REMEMBERED, that on this 6th day of December 2013 before me, a Notary Public, personally appeared Henrik Malchau, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

 (official signature and seal of notary)
My Commission Expires: 11/17/17

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this 5th day of
December, 2013

(L.S.)

Harry E. Rubash
Harry E. Rubash

STATE OF MA)
) ss:
COUNTY OF Middlesex)

BE IT REMEMBERED, that on this 5th day of December, 2013, before me, a Notary Public, personally appeared Harry E. Rubash, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

[Signature] (official signature and seal of notary)

My Commission Expires: 11/17/17

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this 18 day of November, 2013

(L.S.)

Andrew A. Freiberg
Andrew A. Freiberg

STATE OF MA)
COUNTY OF Middlesex) ss:
)

BE IT REMEMBERED, that on this 18th day of November, 2013, before me, a Notary Public, personally appeared Andrew A. Freiberg, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

[Signature] (official signature and seal of notary)
My Commission Expires: 11/17/17

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this 19 day of
November, 2013

(L.S.)

Michael Patrick Duffy
Michael Patrick Duffy

STATE OF MA

)

) ss:

COUNTY OF Norfolk

)

Middlesex

BE IT REMEMBERED, that on this 6th day of December, 2013, before me, a Notary Public, personally appeared Michael Patrick Duffy, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.

[Signature] (official signature and seal of notary)

My Commission Expires: 11/17/12

IN TESTIMONY WHEREOF, Assignor has hereunto set his hand and seal this 19th day of November, 2013

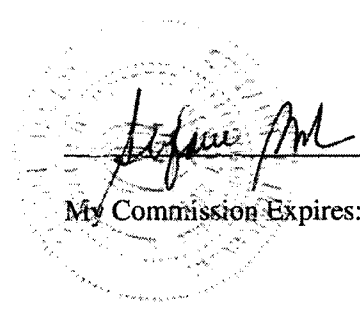
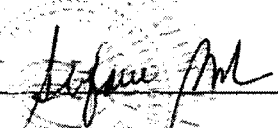
(L.S.)



Thomas Zumbrunn

STATE OF Massachusetts)
COUNTY OF Middlesex) ss:
)

BE IT REMEMBERED, that on this 6th day of December, 2013, before me, a Notary Public, personally appeared Thomas Zumbrunn, who I am satisfied is the person named in and who executed the foregoing instrument in my presence, and I having first made known to him the contents thereof, he did acknowledge that he signed, sealed, and delivered the same as his voluntary act and deed for the uses and purposes therein expressed.


 (official signature and seal of notary)

My Commission Expires: 11/17/13

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