

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3074684

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PARESH S. DALAL	01/02/2002
GODOFREDO R. DIMAANO	01/02/2002
CAROL ANN TOTH	12/19/2001
SHAILESH C. KULKARNI	12/19/2001
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HOWMEDICA OSTEONICS CORP.
<b>Street Address:</b>	325 CORPORATE DRIVE
<b>City:</b>	MAHWAH
<b>State/Country:</b>	NEW JERSEY
<b>Postal Code:</b>	07430
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	8173149
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(630)286-7611
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	630-286-7600
<b>Email:</b>	mail@mfgip.com
<b>Correspondent Name:</b>	MCCRACKEN & GILLEN LLC
<b>Address Line 1:</b>	1315 WEST 22ND STREET
<b>Address Line 2:</b>	SUITE 225
<b>Address Line 4:</b>	OAK BROOK, ILLINOIS 60523
<b>ATTORNEY DOCKET NUMBER:</b>	C0101/40526D
<b>NAME OF SUBMITTER:</b>	M. CLARE FREDERICK
<b>SIGNATURE:</b>	/M. Clare Frederick/
<b>DATE SIGNED:</b>	10/21/2014
<b>Total Attachments: 10</b>	
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A S S I G N M E N T

We,

- (1) Paresh S. Dalal,
- (2) Godofredo R. Dimaano,
- (3) Carol Ann Toth, and
- (4) Shailesh C. Kulkarni,

residing, respectively, at

- (1) 465 Boston Tpke., F-4  
Shrewsbury, MA 01545, U.S.A.,
- (2) 87 Brookhill Avenue  
Edison, NJ 08817, U.S.A.,
- (3) 24 Upland Road  
Sharon, MA 02067, U.S.A., and
- (4) 6 Post Oak Lane, Apt. #12  
Natick, MA 01760, U.S.A.

for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to and do hereby assign, sell and transfer to STRYKER CORPORATION, a corporation organized under the laws of the State of Michigan, having an office and place of business at 2725 Fairfield Road, Kalamazoo, Michigan 49005 (U.S.A.), its successors and assigns: (1) the entire right, title and interest in the United States and in all countries throughout the world to any and all our inventions and discoveries disclosed in the application for Letters Patent in the United States entitled: "POROUS BETA-TRICALCIUM PHOSPHATE GRANULES AND METHODS FOR PRODUCING SAME" and filed in the United States Patent and Trademark Office on September 21, 2001, under Serial Number 09/960,789, including any renewals, revivals, reissues, reexaminations,

extensions, continuations and divisions thereof, and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of STRYKER CORPORATION its designee, or in our names at STRYKER CORPORATION's or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any other country of the world and any renewals, revivals, reissues, reexaminations and extensions of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to STRYKER CORPORATION as the assignee of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of STRYKER CORPORATION to execute and to deliver to STRYKER CORPORATION any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

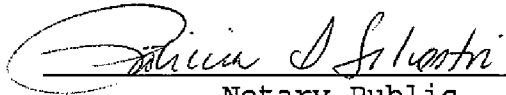
We further agree at any time to execute and to deliver upon request of STRYKER CORPORATION such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and



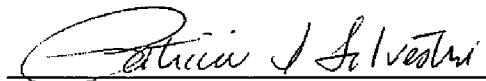
On this \_\_\_\_\_ day of \_\_\_\_\_,  
(2) Godofredo R. Dimaano personally appeared before me, a  
Notary Public in and for New Jersey, and executed the  
foregoing Assignment and duly acknowledged to me that such  
Assignment was executed for the uses and purposes therein  
expressed.

\_\_\_\_\_  
Notary Public

On this 19<sup>th</sup> day of December, 2001,  
(3) Carol Ann Toth personally appeared before me, a Notary  
Public in and for Massachusetts, and executed the foregoing  
Assignment and duly acknowledged to me that such Assignment  
was executed for the uses and purposes therein expressed.

  
\_\_\_\_\_  
Notary Public

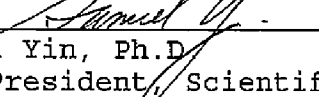
On this 19<sup>th</sup> day of December, 2001,  
(4) Shailesh C. Kulkarni personally appeared before me, a  
Notary Public in and for Massachusetts, and executed the  
foregoing Assignment and duly acknowledged to me that such  
Assignment was executed for the uses and purposes therein  
expressed.

  
\_\_\_\_\_  
Notary Public

Patricia S. Silvestri, Notary Public  
Commonwealth of Massachusetts  
My Commission Expires 9/9/2005

ACKNOWLEDGMENT OF ASSIGNEE:

STRYKER CORPORATION

By:   
Samuel Yin, Ph.D.  
Vice President, Scientific Affairs

On this 7<sup>th</sup> day of JANUARY, 2002,  
Samuel Yin personally appeared before me, a Notary Public  
in and for Massachusetts, and duly acknowledged the  
executed Assignment on behalf of the Assignee.

  
Notary Public

Patricia S. Silvestri, Notary Public  
Commonwealth of Massachusetts  
My Commission Expires 9/9/2005

A S S I G N M E N T

We,

- (1) Paresh S. Dalal,
- (2) Godofredo R. Dimaano,
- (3) Carol Ann Toth, and
- (4) Shailesh C. Kulkarni,

residing, respectively, at

- (1) 465 Boston Tpke., F-4  
Shrewsbury, MA 01545, U.S.A.,
- (2) 87 Brookhill Avenue  
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- (4) 6 Post Oak Lane, Apt. #12  
Natick, MA 01760, U.S.A.

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extensions, continuations and divisions thereof, and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of STRYKER CORPORATION its designee, or in our names at STRYKER CORPORATION's or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any other country of the world and any renewals, revivals, reissues, reexaminations and extensions of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to STRYKER CORPORATION as the assignee of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

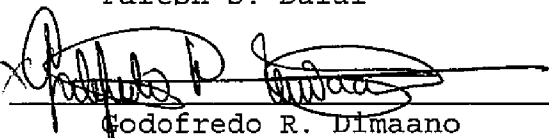
We agree, at any time, upon the request of STRYKER CORPORATION to execute and to deliver to STRYKER CORPORATION any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of STRYKER CORPORATION such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and

applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of STRYKER CORPORATION under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

ASSIGNORS:

\_\_\_\_\_  
Paresh S. Dalal (1)

  
Godofredo R. Dimaano (2)

\_\_\_\_\_  
Carol Ann Toth (3)

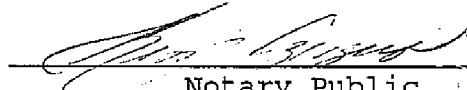
\_\_\_\_\_  
Shailesh C. Kulkarni (4)

On this ~~27th~~ day of ~~January~~, 2002,  
(1) Paresh S. Dalal personally appeared before me, a Notary Public in and for Massachusetts, and executed the foregoing Assignment and duly acknowledged to me that such Assignment was executed for the uses and purposes therein expressed.

\_\_\_\_\_  
Notary Public

On this 2nd day of January, 2002,  
(2) Godofredo R. Dimaano personally appeared before me, a  
Notary Public in and for New Jersey, and executed the  
foregoing Assignment and duly acknowledged to me that such  
Assignment was executed for the uses and purposes therein  
expressed.

**KIM CZECZUGA**  
NOTARY PUBLIC OF NEW JERSEY  
Commission Expires 3/2/2005

  
\_\_\_\_\_  
Notary Public

On this \_\_\_\_\_ day of \_\_\_\_\_,  
(3) Carol Ann Toth personally appeared before me, a Notary  
Public in and for Massachusetts, and executed the foregoing  
Assignment and duly acknowledged to me that such Assignment  
was executed for the uses and purposes therein expressed.

\_\_\_\_\_  
Notary Public

On this \_\_\_\_\_ day of \_\_\_\_\_,  
(4) Shailesh C. Kulkarni personally appeared before me, a  
Notary Public in and for Massachusetts, and executed the  
foregoing Assignment and duly acknowledged to me that such  
Assignment was executed for the uses and purposes therein  
expressed.

\_\_\_\_\_  
Notary Public

ACKNOWLEDGMENT OF ASSIGNEE:

STRYKER CORPORATION

By: 

Samuel Yin, Ph.D.  
Vice President, Scientific Affairs

On this 7<sup>th</sup> day of JANUARY, 2002,  
Samuel Yin personally appeared before me, a Notary Public  
in and for Massachusetts, and duly acknowledged the  
executed Assignment on behalf of the Assignee.

  
Notary Public

Patricia S. Silvestri, Notary Public  
Commonwealth of Massachusetts  
My Commission Expires 9/9/2005