

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3142747

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the INCORRECT SUBJECT PATENT NUMBER OF THE U.S. PATENT NO. 8,176,149 (APPLICATION NO. 12/165,104) previously recorded on Reel 034112 Frame 0782. Assignor(s) hereby confirms the CORRECT U.S. PATENT NUMBER IS 8,173,149 (APPLICATION NO. 12/072,105).										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>PARESH S. DALAL</td><td>01/02/2002</td></tr><tr><td>GODOFREDO R. DIMAANO</td><td>01/02/2002</td></tr><tr><td>CAROL ANN TOTH</td><td>12/19/2001</td></tr><tr><td>SHAILESH C. KULKARNI</td><td>12/19/2001</td></tr></tbody></table>	Name	Execution Date	PARESH S. DALAL	01/02/2002	GODOFREDO R. DIMAANO	01/02/2002	CAROL ANN TOTH	12/19/2001	SHAILESH C. KULKARNI	12/19/2001	
Name	Execution Date										
PARESH S. DALAL	01/02/2002										
GODOFREDO R. DIMAANO	01/02/2002										
CAROL ANN TOTH	12/19/2001										
SHAILESH C. KULKARNI	12/19/2001										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>STRYKER CORPORATION</td></tr><tr><td>Street Address:</td><td>2725 FAIRFIELD ROAD</td></tr><tr><td>City:</td><td>KALAMAZOO</td></tr><tr><td>State/Country:</td><td>MICHIGAN</td></tr><tr><td>Postal Code:</td><td>49005</td></tr></table>	Name:	STRYKER CORPORATION	Street Address:	2725 FAIRFIELD ROAD	City:	KALAMAZOO	State/Country:	MICHIGAN	Postal Code:	49005	
Name:	STRYKER CORPORATION										
Street Address:	2725 FAIRFIELD ROAD										
City:	KALAMAZOO										
State/Country:	MICHIGAN										
Postal Code:	49005										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Patent Number:</td><td>8173149</td></tr></tbody></table>	Property Type	Number	Patent Number:	8173149							
Property Type	Number										
Patent Number:	8173149										
CORRESPONDENCE DATA											
Fax Number: (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>											
Phone: 630-286-7600											
Email: mail@mfgip.com											
Correspondent Name: MCCRACKEN & GILLEN LLC											
Address Line 1: 1315 WEST 22ND STREET											
Address Line 2: SUITE 225											
Address Line 4: OAK BROOK, ILLINOIS 60523											
ATTORNEY DOCKET NUMBER:	C0101/40526D										
NAME OF SUBMITTER:	M. CLARE FREDERICK										
SIGNATURE:	/M. CLARE FREDERICK/										
DATE SIGNED:	12/11/2014										

Total Attachments: 11

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3086721

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the NAME AND ADDRESS OF THE ASSIGNEE previously recorded on Reel 033995 Frame 0768. Assignor(s) hereby confirms the CORRECT NAME AND ADDRESS OF THE ASSIGNEE IS STRYKER CORPORATION, 2725 FAIRFIELD ROAD, KALAMAZOO, MI 49005 US.
CONVEYING PARTY DATA	
Name	Execution Date
PARESH S. DALAL	01/02/2002
GODOFREDO R. DIMAANO	01/02/2002
CAROL ANN TOTH	12/19/2001
SHAILESH C. KULKARNI	12/19/2001
RECEIVING PARTY DATA	
Name:	STRYKER CORPORATION
Street Address:	2725 FAIRFIELD ROAD
City:	KALAMAZOO
State/Country:	MICHIGAN
Postal Code:	49005
PROPERTY NUMBERS Total: 1	
Property Type	Number
Patent Number:	8176149
CORRESPONDENCE DATA	
Fax Number:	(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>	
Phone:	630-286-7600
Email:	mail@mfgip.com
Correspondent Name:	MCCRACKEN & GILLEN LLC
Address Line 1:	1315 WEST 22ND STREET
Address Line 2:	SUITE 225
Address Line 4:	OAK BROOK, ILLINOIS 60523
ATTORNEY DOCKET NUMBER:	C0101/40526D
NAME OF SUBMITTER:	M. CLARE FREDERICK
SIGNATURE:	/M. CLARE FREDERICK/
DATE SIGNED:	10/29/2014

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.

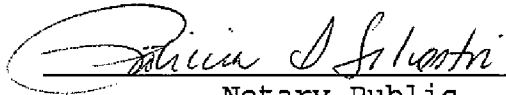
We agree, at any time, upon the request of STRYKER CORPORATION to execute and to deliver to STRYKER CORPORATION any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based 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.

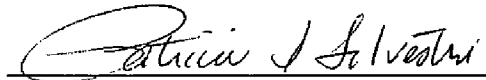
Notary Public

On this 19th 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 19th 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.

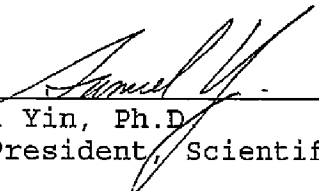


Notary Public

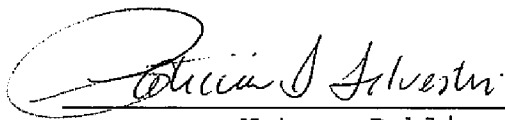
Patricia S. Silvestri, Notary Public
Commonwealth of Massachusetts
My Commission Expires 9/9/2005

ACKNOWLEDGMENT OF ASSIGNEE:

STRYKER CORPORATION

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

On this 7th 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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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.

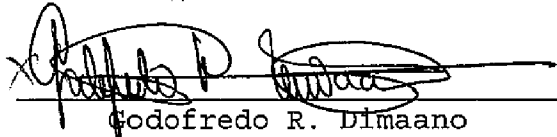
We agree, at any time, upon the request of STRYKER CORPORATION to execute and to deliver to STRYKER CORPORATION any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based 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

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)

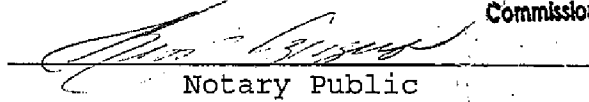
Shailesh C. Kulkarni (4)

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 CZECHUGA
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.

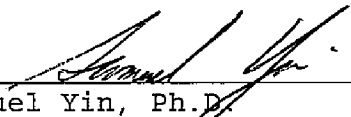
Notary Public

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
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Notary Public

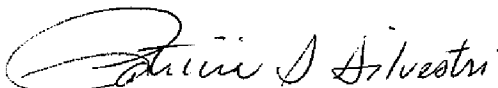
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By: 

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Vice President, Scientific Affairs

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Notary Public

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