

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BIOSURFACE ENGINEERING TECHNOLOGIES, INC.	02/16/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	FERRING INTERNATIONAL CENTER S.A.
<b>Street Address:</b>	CH. DE LA VERGOGNAUSAZ 50
<b>City:</b>	SAINT-PREX
<b>State/Country:</b>	SWEDEN
<b>Postal Code:</b>	1162
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16358343
<b>CORRESPONDENCE DATA</b>	
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<b>NAME OF SUBMITTER:</b>	CARL A. MORALES
<b>SIGNATURE:</b>	/Carl A. Morales/
<b>DATE SIGNED:</b>	05/14/2020
<b>Total Attachments: 54</b>	
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**RECORDABLE PATENT ASSIGNMENT**

This RECORDABLE PATENT ASSIGNMENT (this "Patent Assignment") is made as of February 16, 2015 (the "Effective Date") by and between BioSurface Engineering Technologies, Inc., a Delaware corporation ("Assignor") and Ferring International Center S.A., a Swiss Société Anonyme ("Assignee"). Each of Assignor and Assignee are referred to as a "Party" and together as the "Parties".

WHEREAS, Assignor and Assignee have entered into a certain Asset Purchase Agreement, dated as of February 16, 2015 (the "Purchase Agreement"), pursuant to which Assignee has acquired certain assets of Assignor and its Affiliates (as defined in the Purchase Agreement), including without limitation the Assigned Patent Rights (defined below); and

WHEREAS, Assignor wishes to confirm, memorialize and record the assignment of the Assigned Patent Rights to Assignee as set forth in the Purchase Agreement.

NOW, THEREFORE, in consideration of the mutual representations, warranties and covenants set forth herein and in the Purchase Agreement, and for certain monetary consideration and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned parties agree as follows:

1. Assignor on behalf of itself and its Affiliates does hereby confirm that it has irrevocably sold, transferred, assigned and delivered, and hereby does sell, transfer, assign and deliver unto Assignee, and Assignee hereby assumes and accepts, all of Assignor's and its Affiliates' worldwide rights, title, and interest in and to: (i) the patents listed on Annex A hereto, together with all registrations and applications for the foregoing; and all rights to request, apply for, file and register patent rights in any of the foregoing; (ii) all provisional applications, continuation and continuation-in-part applications, continued prosecution applications, and substitute and divisional applications claiming the benefit of the filing date of or priority to the foregoing; all patents of addition of the foregoing; all continued examinations, re-examinations, inter partes review and post-grant review certificates of the foregoing; all amendments, reissues, and extensions of the foregoing; all divisional, validations, supplementary perfection certifications and extensions of the foregoing; all patents or patent applications that claim priority to or from the foregoing; and all inventions claimed by any of the foregoing; (iii) all rights to claim priority to the foregoing under any of the International Convention for the Protection of Industrial Property ("Paris Convention"), the Patent Cooperation Treaty ("PCT"), and applicable bilateral or multilateral treaties; (v) all rights to request, apply for, file and register the foregoing; (vi) all patents issuing from any of the foregoing; (vii) all defenses relating to or arising from any of the foregoing, and all rights of action arising from the foregoing, including without limitation all claims for damages by reason of present, past and future infringement or violation of the foregoing and all present, past and future rights to sue and collect damages or seek injunctive relief for any such infringement or violation of the foregoing; and (viii) all income, royalties and any other payments now and hereafter due and/or payable to Assignor and its Affiliates in respect of the foregoing, in each case of (i) – (viii), to be held and enjoyed by Assignee for its own use and benefit and for its successors legal representatives and assigns as the same would have been held as fully and entirely by Assignor and its Affiliates had this assignment not been made (collectively, the "Assigned Patent Rights")

2. Assignor on behalf of itself and its Affiliates hereby authorizes and requests the competent authorities including without limitation an official of the United States Patent and Trademark Office, an official of any non-US governmental patent office and an official of any intergovernmental organization, whose duty is to issue patent registrations or other evidence or forms of intellectual property and/or industrial property protection on applications as aforesaid, to issue the same to the Assignee, its successors, legal representatives and assigns, in accordance with the terms of this Patent Assignment.

3. Assignor shall, and shall cause its Affiliates, and their respective officers, directors and employees to, promptly execute and deliver such documents, and do and perform such acts and things as Assignee, its successors, legal representatives and/or assigns may reasonably request to give effect to, document and record, perfect and enforce the assignment herein recited, including without limitation executing and delivering such other documents as may be required to give full effect to and to perfect the rights of Assignee, its successors, legal representatives and assigns under this Patent Assignment in and to the Assigned Patent Rights worldwide.

4. Assignor further agrees, at any time, upon the reasonable request of Assignee, its successors, legal representatives and/or assigns, to execute and deliver to Assignee, its successors, legal representatives and/or assigns, any additional applications for patent for said Assigned Patent Rights, or any part or parts thereof, including without limitation any provisional, utility, continuation, continuation-in-part, divisional, reissue, substitute, and extension applications to the foregoing; and all re-examination, inter partes, post-grant and opposition certifications or amendments or reissues of the foregoing and all patent applications claiming benefit of or priority from the foregoing; and all patents issues from the foregoing.

5. This Patent Assignment shall be binding upon and inure to the benefit of the parties hereto and their respective successors, legal representatives and assigns. This Patent Assignment and any claim, controversy, dispute or cause of action (whether in contract, tort or otherwise) based upon, arising out of or relating to this Patent Assignment shall be governed by and construed in accordance with the internal laws of the State of New York applicable to agreements made and to be performed entirely within the State of New York, without regard to the conflicts of laws principles thereof. This Patent Assignment may be executed in the original or by facsimile in any number of counterparts, each of which shall be deemed to be an original and all of which together shall constitute one and the same instrument.

*[Signature page follows.]*

The undersigned parties, by their authorized representatives, have executed this Recordable Patent Assignment effective as of the Effective Date:

**"ASSIGNEE":**

**FERRING INTERNATIONAL CENTER S.A.**

By:  \_\_\_\_\_

Name:

Title:

By:  \_\_\_\_\_

Name:

Title:

**"ASSIGNOR":**

**BIOSURFACE ENGINEERING  
TECHNOLOGIES, INC.**

By: \_\_\_\_\_

Name:

Title:

*[Signature Page to Recordable Patent Assignment]*



ANNEX A

SOLELY-OWNED ASSIGNED PATENT RIGHTS



**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**PEACOCK MYERS, P.C.**  
**30817-1001**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
4,850,958 07/204,115	Filed 6/8/1988 Issued 7/25/1989	Apparatus and Method for Extrapolmonary Blood Gas Exchange	No priority	Gaylord Berry, J.D. Mortensen, and Larry D. Rigby	Assigned to BioSET  Licensed to InnerDyne	Large	Issued
PCT/US89/0 01846	Filed 5/1/89	Apparatus and Method for Extrapolmonary Blood Gas Exchange	4,850,958	Gaylord Berry; J.D. Mortensen; Larry D. Rigby	Cardiopulmo nics		Nat'l phase
5,262,451 07/215,014	Filed 7/05/1988  Issued 11/16/1993	Multifunctional Thrombo- Resistant Coatings and Methods of Manufacture	CIP of 4,850,958	Suzanne Winters, Kenneth A. Solen, Clifton G. Sanders, J.D. Mortensen, and Gaylord Berry	Assigned to BioSET  Licensed to InnerDyne	Large	Issued
PCT/US89/0 01853	Filed 5/1/89	Multifunctional Thrombo- Resistant Coatings and Methods of Manufacture	5,262,451	Suzanne Winters, Kenneth A. Solen, Clifton G. Sanders, J.D. Mortensen, Gaylord Berry	Cardiopulmoni cs		Nat'l Phase
07/823,271	1/21/1992	Multifunctional Thrombo- Resistant Coating and Methods of Manufacture	DIV of 5,262,451	Suzanne Winters, Kenneth A. Solen, Clifton G. Sanders, J.D. Mortensen, Gaylord Berry	None		Abandoned

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**PEACOCK MYERS, P.C.**  
**30817-1001**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
5,338,770 07/509,063	Filed 4/12/1990  Issued 8/16/1994	Gas Permeable Thrombo- Resistant Coatings and Methods of Manufacture	CIP of 5,262,451 which is a CIP of 4,850,958	Suzanne Winters, Kenneth A. Solen, Clifton G. Sanders, J.D. Mortensen, and Gaylord Berry	Assigned to BioSET  Licensed to InnerDyne	Large	Issued
PCT/US91/0 02415	Filed 4/9/91	Gas Permeable Thrombo- Resistant Coatings and Methods of Manufacture	5,338,770	Suzanne Winters, Kenneth A. Solen, Clifton G. Sanders, J.D. Mortensen, Gaylord Berry	Cardiopulmoni cs		Nat'l Phase
5,342,693 08/035,426	Filed 03/22/1993  Issued 8/30/1994	Multifunctional Thrombo- Resistant Coating and Methods of Manufacture	CIP of Ser. No. 823,271 (Abandoned) which was a divisional of 5,262,451 which was a CIP of 4,850,958	Suzanne Winters, Kenneth A. Solen, Clifton G. Sanders, J.D. Mortensen, and Gaylord Berry	Assigned to BioSET  Licensed to InnerDyne	Large	Issued
5,098,376 07/454,773	Filed 12/26/1989  Issued 3/24/1992	Apparatus and Methods for Furling and Introducing an Extrapulmonary Blood Gas Exchange Device	No priority	Gaylord Berry, J.D. Mortensen, and Mitchell D. Baldwin	Assigned to BioSET  Licensed to InnerDyne	Large	Issued
PCT/US90/0 07165	Filed 12/6/1990	Apparatus and Methods for	5,098,376	Gaylord L. Berry J.D. Mortensen	Cardiopulmoni cs		Nat'l Phase

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**PEACOCK MYERS, P.C.**  
**30817-1001**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
5,125,902 07/488,285	Filed 3/2/1990 Issued 6/30/1992	Furling and Introducing an Extrapulmonary Blood Gas Exchange Device  Sheath/Obturator to Facilitate Insertion of Medical Devices into a Patient's Venous System	No priority	Mitchell D. Baldwin  Gaylord Berry, J.D. Mortensen, Mitchell D. Baldwin, and Larry D. Rigby	Assigned to BioSET  Licensed to InnerDyne	Large	Abandoned
PCT/US91/0 01338	2/26/1991	Sheath for Intravenous Insertion of Medical Devices	5,125,902	Gaylord Berry, J.D. Mortensen, Mitchell D. Baldwin and Larry D. Rigby	Cardiopulmoni cs		Nat'l Phase
5,125,915 07/488,742	Filed 3/2/1990 Issued 6/30/1992	Locking Y- Connector for Selective Attachment to Exterior of Medical Tubing	No priority	Gaylord Berry and Lynn W. Kerby	Assigned to InnderDyne  Licensed to InnerDyne	Large	Abandoned
PCT/US91/0 01341	Filed 2/26/91	Locking Y- Connector for Selective Attachment to Exterior of Medical Tubing	5,125,915	Gaylord Berry Lynn W. Kerby	Cardiopulmoni cs		Nat'l Phase
5,158,553 07/633,975	Filed 12/26/1990 Issued	Rotatably Actuated Constricting	No priority	Gaylord Berry and Lynn W. Kerby	Assigned to BioSET Licensed to	Large	Issued

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**PEACOCK MYERS, P.C.**  
**30817-1001**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
PCT/US91/0 09699	10/27/1992  Filed 12/23/91	Catheter Valve  Rotatably Actuated Constricting Catheter Valve	5,158,553	Gaylord L. Berry, Lynn Kerby	InnerDyne  Cardiopulmo nics		Nat'l phase
5,158,534  07/548,290	Filed 7/03/1990  Issued 10/27/1992	Automated Gas Delivery System for Blood Gas Exchange Devices	No priority	Gaylord Berry and Yansong Shan	Assigned to BioSET  Licensed to InnerDyne	Large	Issued
PCT/US91/0 04609	Filed 6/27/91	Automated Gas Delivery System for Blood Gas Exchange Devices	5,158,534	Gaylord L. Berry; Yansong Shan	Cardiopulmo nics		Nat'l Phase
5,182,317  07/716,843	Filed 6/17/1991  Issued 1/26/1993	Multifunctional Thrombo- Resistant Coatings and Methods of Manufacture	DIV of 07/215,014 which is a CIP of 07/204,115	Suzanne Winters, Kenneth A. Solen, Clifton G. Sanders, J.D. Mortensen, and Gaylord Berry	Assigned to Innerdyne  Licensed to InnerDyne	Large	Abandoned
5,230,862  07/746,785	Filed 8/16/1991  Issued 7/27/1993	Apparatus for Extracorporeal Blood Oxygenation	No priority	Gaylord Berry, Shigemasa Osaki, and J.D. Mortensen	Assigned to BioSET  Licensed to InnerDyne	Large	Issued
PCT/US92/0 07374	Filed 8/14/92	Apparatus and Method for Extracorporeal Blood Oxygenation	07/746,785	Gaylord Berry, Shigemasa Osaki, J.D. Mortensen	Cardiopulmo nics		Nat'l phase

**BIOINTERFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**

PEACOCK MYERS, P.C.

30817-1001

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
5,955,588 09/159,276	Filed 9/22/1998  Issued 9/21/1999	Non- Thrombogenic Coating Composition and Methods for Using Same	60/068,374	Ray Tsang, Shigemasa Osaki	Assigned to TYCO  (exclusive license to BioSet)	Large	Issued
09/399,119	Filed 9/20/1999	Non- Thrombogenic Coating Compositions and Methods for Using Same	CON of 09/159,276 60/068,374	Ray Tsang Shigemasa Osaki	Assigned to TYCO	Sma II	Abandoned
6,342,591 09/629,059	Filed 7/31/2000  Issued 1/29/2002	Amphiphathic Coating for Modulating Cellular Adhesion Composition and Methods	CIP of 09/399,119 (Abandoned) which is a CIP of 5,955,588	Paul Zamora, Shigemasa Osaki; Ray Tsang	Assigned to BioSET  Licensed to InnerDyne	Large	Issued
6,596,699 10/054,091	Filed 1/22/2002  Issued 7/22/2003	Nucleic Acid Coating Compositions and Methods	CIP of 6,342,591 which is a CIP of 09/399,119 (Abandoned) which was a CIP of 5,955,588	Paul Zamora, Ray Tsang and Shigemasa Osaki	Assigned to BioSET	Large	Issued

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**PEACOCK MYERS, P.C.**  
**30817-1001**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
5,463,010 152,176	Filed 11/12/1993  Issued 10/31/1995	Hydrocyclosiloxan e Membrane Prepared by Plasma Polymerization Process	No priority	Chen-Ze Hu, Kric K. Dolence, Shigemasa Osaki, Clifton G. Sanders	Assigned to Surface Engineering (InnerDyne owned, exclusive license to BioSET)	Large	Issued
PCT/US94/1 2995	11/10/1994	Hydrocyclosiloxa ne Membrane Prepared By Plasma Polymerization	08/152,176	Chen-Ze Hu, Eric K. Dolence, Shigemasa Osaki, Clifton G. Sanders	Surface Engineering		

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**PEACOCK MYERS, P.C.**  
**30817-1001**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
5,650,234  08/304,656	Filed 9/9/1994  Issued 7/22/1997	Electrophilic Polyethylene Oxides for the Modification of Polysaccharides, Polypeptides (proteins) and Surfaces	No priority	Eric K. Dolence, Chen-Ze Hu, Ray Tsang, Clifton G. Sanders, and Shigemasa Osaki	Assigned to BioSET  Licensed to InnerDyne and Nektar  Sub-Licensed to Pfizer  Note: USPTO assignment records incorrectly link an ISI Norgen Inc assignment with the assignment record for 5650234	Large	Issued
PCT/US95/ 11255	9/08/1995	Electrophilic Polyethylene Oxides for the Modification of Polysaccharides , Polypeptides	08/304,656	Eric K. Dolence, Chen- Ze Hu, Ray Tsang, Clifton G. Sanders, and Shigemasa Osaki	Surface Engineering Technologies , Division of Innerdyne, Inc.		Nat'l Phase

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**PEACOCK MYERS, P.C.**  
**30817-1001**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
08/733,621	10/17/1996		08/304,656				Abandoned
<b>Europe</b> App. No. 95931715.7 Pub. No. 0779894 Pat. No. 69531057.7	Filed 9/8/1995  Published 6/11/2003  Issued 6/11/2003	Electrophilic Polyethylene Oxides for the Modification of Polysaccharides Polypeptides (Proteins) and Surfaces	PCT/US95/11255  Related to 08/304,656	Eric Dolence, Chen-Ze Hu, Ray Tsang, Clifton Sanders, Shigemasa Osaki	Assigned to BioSET  Licensed to InnerDyne and Nektar  Sub-Licensed to Pfizer	Large	Validated in Germany and Great Britain
<b>Germany</b> App. No. 95931715.7 Pub. No. 0779894 Pat. No. 69531057.7	Filed 9/8/1995  Published 6/11/2003  Issued 6/11/2003	Electrophilic Polyethylene Oxides for the Modification of Polysaccharides Polypeptides (Proteins) and Surfaces	PCT/US95/11255  Related to 08/304,656	Eric Dolence, Chen-Ze Hu, Ray Tsang, Clifton Sanders, Shigemasa Osaki	Assigned to BioSET  Licensed to InnerDyne and Nektar  Sub-Licensed to Pfizer	Large	
<b>United Kingdom</b> App. No. 95931715.7 Pub. No. 0779894 Pat. No. 69531057.7	Filed 9/8/1995  Published 6/11/2003  Issued 6/11/2003	Electrophilic Polyethylene Oxides for the Modification of Polysaccharides Polypeptides (Proteins) and Surfaces	PCT/US95/11255  Related to 08/304,656	Eric Dolence, Chen-Ze Hu, Ray Tsang, Clifton Sanders, Shigemasa Osaki	Assigned to BioSET  Licensed to InnerDyne and Nektar  Sub-Licensed to Pfizer	Large	



**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**PEACOCK MYERS, P.C.**  
**30817-1001**

<b>Serial/ Patent #</b>	<b>Filing/Issue Date</b>	<b>Title</b>	<b>Priority Claim</b>	<b>Inventors</b>	<b>Ownership</b>	<b>Entity Status</b>	<b>Current Status</b>
<b>Japan</b> App. No. 509637/1996  Pat. No. 4,250,202	Filed 9/8/1995  Issued 2/23/2009	Electrophilic Polyethylene Oxides for the Modification of Polysaccharides, Polypeptides (Proteins) and Surfaces	PCT/US95/11255  Related to 08/304,656	Eric Dolence, Chen-Ze Hu, Ray Tsang, Clifton Sanders, Shigemasa Osaki	Assigned to BioSET  Licensed to Nektar and InnerDyne  Sub-Licensed to Pfizer	Large	Issued
<b>United Kingdom</b> App. No. 92903523.6 Pub. No. 1992/19 Pat. No. 0564578	Filed 12/23/1991  Published 7/23/1992  Issued 3/17/1999	Rotatably Actuated Valve	PCT/US91/09699  Related to 5,158,553	Gaylord Berry, Lynn Kerby	Assigned to BioSET  Licensed to InnerDyne	Large	Issued
<b>France</b> App. No. 92903523.6 Pub. No. 1992/19 Pat. No. 0564578	Filed 12/23/1991  Published 7/23/1992  Issued 3/17/1999	Rotatably Actuated Valve	PCT/US91/09699  Related to 5,158,553	Gaylord Berry, Lynn Kerby	Assigned to BioSET  Licensed to InnerDyne	Large	Issued

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**PEACOCK MYERS, P.C.**  
**30817-1001**

<b>Serial/ Patent #</b>	<b>Filing/Issue Date</b>	<b>Title</b>	<b>Priority Claim</b>	<b>Inventors</b>	<b>Ownership</b>	<b>Entity Status</b>	<b>Current Status</b>
<b>Italy</b> App. No. 92903523.6 Pub. No. 1992/19 Pat. No. 0564578	Filed 12/23/1991  Published 7/23/1992  Issued 3/17/1999	Rotatably Actuated Valve	PCT/US91/09699  Related to 5,158,553	Gaylord Berry, Lynn Kerby	Assigned to BioSET  Licensed to InnerDyne	Large	Issued
<b>Germany</b> App. No. 92903523.6 Pub. No. 1992/19 Pat. No. 69131018.1	Filed 12/23/1991  Published 7/23/1992  Issued 3/17/1999	Rotatably Actuated Valve	PCT/US91/09699  Related to 5,158,553	Gaylord Berry, Lynn Kerby	Assigned to BioSET  Licensed to InnerDyne	Large	Issued

**BIO SURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**PEACOCK MYERS, P.C.**  
**30817-1002**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
6,248,057 09/361,553	Filed 7/27/1999 Issued 6/19/2001	Absorbable Brachytherapy and chemotherapy delivery devices and methods	60/094,412	Mavity, William G.; Stern, Robert A.; Osaki, Shigemasa; Zamora, Paul O.	Assigned to BioSET  Licensed to InnerDyne and Applied Biotherapeutics	Large	Issued
PCT/US99 /17039	7/27/1999	Absorbable Brachytherapy and chemotherapy delivery devices and methods	60/094,412	Mavity, William G.; Stern, Robert A.; Osaki, Shigemasa, Zamora, Paul O.	Innerdyne Inc.		Nat'l Phase
Europe 99935974.8	Filed 7/27/1999	Absorbable Brachytherapy and Chemotherapy Delivery Devices and Methods	60/094,412	William Mavity; Robert Stern; Shigemasa Osaki; Paul Zamora	Assigned to BioSET  Licensed to InnerDyne and Applied Biotherapeutics	Large	Abandoned
09/845,035	Filed 4/27/2001	Absorbable Brachytherapy and Chemotherapy Delivery Devices and Methods	09/361,553	William G. Mavity	Assigned to BioSET  Licensed to Applied Biotherapeutics	Large	Abandoned

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**PEACOCK MYERS, P.C.**  
**30817-1002**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
6,575,888 09/769,194	Filed 1/24/2001 Issued 6/10/2003	Bioabsorbable Brachytherapy Device	60/178,083	Paul O. Zamora and Robert A. Stern	Assigned to BioSET  Licensed to InnerDyne and Applied Biotherapeutics	Large	Issued
PCT/US01/ 02545 Pub. No. WO 01/54764	Filed 1/25/2001 Published 08/02/2001	Bioabsorbable Brachytherapy Device	60/178,083	Paul O. Zamora and Robert A. Stern	Assigned to BioSET  Licensed to InnerDyne and Applied Biotherapeutics	Large	Abandoned

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**PEACOCK MYERS, P.C.**  
**30817-1003**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
6,630,580 10/047,118	Filed 01/14/2002  Issued 10/07/2003	Silyl and Heparin Compositions	Continuation of 09/629,059 which is a CIP of 09/399,119 (abandoned) which is a Continuation of 09/159,276	Ray Tsang and Shigemasa Osaki	Assigned to BioSET  Licensed to InnerDyne and Celcus	Large	Issued

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**PEACOCK MYERS, P.C.**  
**30817-1005**

<b>Serial/ Patent #</b>	<b>Filing/Issue Date</b>	<b>Title</b>	<b>Priority Claim</b>	<b>Inventors</b>	<b>Ownership</b>	<b>Entity Status</b>	<b>Current Status</b>
PCT/US01/ 41281	Filed 7/06/2001	Drug Diffusion Coatings, Applications and Methods	60/216,915	Shigemasa Osaki, Paul O. Zamora and Meng Chen	Assigned to BioSET  Licensed to InnerDyne	Large	Abandoned
10/332,307	Filed 1/6/2003	Drug Diffusion Coatings, Applications and Methods	PCT/US01/41281 60/216,915	Shigemasa Osaki, Paul O. Zamora, Meng Chen	Assigned to BioSET  Licensed to InnerDyne	Large	Abandoned

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**

**PEACOCK MYERS, P.C.**

**30817-1006**

<b>Serial/ Patent #</b>	<b>Filing/Issue Date</b>	<b>Title</b>	<b>Priority Claim</b>	<b>Inventors</b>	<b>Ownership</b>	<b>Entity Status</b>	<b>Current Status</b>
PCT/US01/ 24000	Filed 7/31/2001	Bioactive Coating Compositions and Methods	09/629,059	Paul O. Zamora, Shigemasa Osaki and Ray Tsang	Assigned to BioSET  Licensed to InnerDyne	Large	Filed National Entries in U.S., Japan and Europe
<b>Japan</b> App. No. 2002/515949  Pub. No. 2004/505124	Filed 7/31/2001  Published 2/19/2004	Bioactive Coating Compositions and Methods	PCT/US01/24000	Paul O. Zamora Shigemasa Osaki and Ray Tsang	Assigned to BioSET  Licensed to InnerDyne	Large	<b>Abandoned</b>
<b>Europe</b> App. No. 01959358.1  Pub. No. 1311551	Filed 7/31/2001  Published 5/21/2003	Bioactive Coating Compositions and Methods	PCT/US01/24000	Paul O. Zamora Shigemasa Osaki and Ray Tsang	Assigned to BioSET  Licensed to InnerDyne	Large	<b>Abandoned</b>
6,921,811  10/450,309	Filed 1/28/2003  Issued 7/26/2005	Bioactive Coating Compositions and Methods	PCT/US01/24000  Claiming priority to 09/629,059	Paul O. Zamora Shigemasa Osaki and Ray Tsang	Assigned to BioSET  Licensed to InnerDyne	Large	Issued
6,765,069  10/260,510	Filed 9/27/2002  Issued 7/20/2004	Plasma Cross- Linked Hydrophilic Coatings	60/326,048	Ting-Ting Hsieh, Meng Chen, Shigemasa Osaki, Paul Zamora and Ray Tsang	Assigned to BioSET	Small	Issued

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**PEACOCK MYERS, P.C.**  
**30817-1006**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
7,217,769 10/893,603	Filed 7/16/2004  Issued 5/15/2007	Medical Device with Plasma Cross-Linked Hydrophilic Coatings (continuation app.)	60/326,048  Continuation of 10/260,510	Ting-Ting Hsieh, Meng Chen, Shigemasa Osaki, Paul Zamora and Ray Tsang	Assigned to BioSET	Small	Issued
PCT/US02/ 31252	Filed 9/30/2002	Plasma Cross- Linked Hydrophilic Coatings	60/326,048 10/260,510	Ting-Ting Hsieh, Meng Chen, Shigemasa Osaki, Paul Zamora and Ray Tsang	Assigned to BioSET	Small	Completed



**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**PEACOCK MYERS, P.C.**  
**30817-1007**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
7,468,210	Filed 12/10/2003	Cross Linked Heparin Coatings and Methods	60/432,504	Paul Zamora	Assigned to BioSET	Small	Issued
10/733,208	Issued 12/23/2008						

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**PEACOCK MYERS, P.C.**  
**30817-1010**

<b>Serial/ Patent #</b>	<b>Filing/Issue Date</b>	<b>Title</b>	<b>Priority Claim</b>	<b>Inventors</b>	<b>Ownership</b>	<b>Entity Status</b>	<b>Current Status</b>
6,613,432 App. No. 09/746,234	Filed 12/21/2000  Issued 9/2/2003	Plasma-Deposited Coatings, Devices and Methods	60/171,844 filed 12/22/99 and 60/221,646 filed 7/28/00	Paul O. Zamora, Shigemasa Osaki and Meng Chen	Assigned to BioSET  Licensed to InnerDyne	Large	Issued
PCT/US00/ 34945	Filed 12/22/2000	Plasma-Deposited Coatings, Devices and Methods	60/171,844 filed 12/22/99 and 60/221,646 filed 7/28/00	Paul O. Zamora, Shigemasa Osaki and Meng Chen	Assigned to BioSET  Licensed to InnerDyne	Large	Completed
10/653,655	Filed 09/02/2003	Plasma-Deposited Coatings, Devices and Methods	Continuation of 6,613,432 60/171,844 60/221,646	Paul Zamora, Ray Tsang, Meng Chen	Not Assigned	Large	Abandoned
<b>Europe</b> 00989399.1	Filed 6/18/2002	Plasma-Deposited Coatings, Devices and Methods	PCT/US00/34945 filed 12/22/2000; 60/171,844 filed 12/22/99 and 60/221,646 filed 7/28/00	Paul O. Zamora, Shigemasa Osaki and Meng Chen	Assigned to BioSET	Large	Abandoned

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1008**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
11/362,137	Filed 2/23/2006	Cysteine- Branched Heparin- Binding Growth Factor Analog	60/656,713	Kazuyuki Takahashi	Assigned to BioSET	Small	Abandoned

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1011**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
7,528,105  App. No. 11/055,428	Filed 2/10/2005  Issued 5/5/2009	Heterodimeric Chain Synthetic Heparin- Binding Growth Factor Analogues	60/543,616	Louis A. Pena*, Paul Zamora, Xinhua Lin* Kazuyuki Takahashi	Assigned to BioSET	Small	Issued
11/167,636	Filed 6/27/2005	Bioactive Peptide Coatings	60/583,566 60/655,570 60/656,174  CIP of 11/055,428 which claims priority to 60/543,616	Paul O. Zamora, Sarah Albright			Abandoned
PCT/US05/023172	Filed 6/28/2005	Bioactive Peptide Coatings	60/583,566 11/167,636	Paul O. Zamora, Sarah Albright			Abandoned

\*assignment to BioSet pursuant to an independent consulting agreement

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1012**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
7,297,343	Filed 10/10/2003	Bioactive Medical Films	60/418,127	Paul Zamora	Assigned to BioSET	Small	Issued
App. No. 10/684,022	Issued 11/20/2007		CIP of 10/450,309				

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1015**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
7,820,172	Filed 6/01/2007	Laminin Derived Multi- Domain Peptides	60/803,682	Paul Zamora, Xinhua Lin*, Kazuyuki Takahashi	Assigned to BioSET	Small	Issued
App. No. 11/757,242	Issued 10/26/2010						

\*assignment to Bioaset pursuant to an independent consulting agreement

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1019**

<b>Serial/ Patent #</b>	<b>Filing/Issue Date</b>	<b>Title</b>	<b>Priority Claim</b>	<b>Inventors</b>	<b>Ownership</b>	<b>Entity Status</b>	<b>Current Status</b>
11/359,173	Filed 2/21/2006	Single Branch Heparin- Binding Growth Factor	60/655,570	Paul O. Zamora, Kazuyuki Takahashi	Assigned to BioSET	Small	Abandoned
PCT/US06/00 6397 WO06091727	Filed 2/22/2006	Single Branch Heparin- Binding Growth Factor	60/655,570	Paul O. Zamora, Kazuyuki Takahashi	Assigned to BioSET	Small	Completed
<b>Australia</b> 2006216676	Filed 2/22/2006	Single Branch Heparin Growth Factor	PCT/US06/ 06397	Paul O. Zamora Kazuyuki Takahashi	Assigned to BioSET	Small	Abandoned
<b>Canada</b> 2,598,688	Filed 2/22/2006	Single Branch Heparin Growth Factor	PCT/US06/ 06397	Paul O. Zamora Kazuyuki Takahashi	Assigned to BioSET	Large	Pending
<b>Europe</b> 06735882.0 Pub. No. 1855706	Filed 2/22/2006 Publication 11/21/2007	Single Branch Heparin Growth Factor	PCT/US06/ 06397	Paul O. Zamora Kazuyuki Takahashi	Assigned to BioSET	Small	Noting Loss of Rights deadline 2/12/15

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1019**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
Japan 4897708	Issued 1/6/2012	Single Branch Heparin Growth Factor	PCT/US06/ 06397	Paul O. Zamora Kazuyuki Takahashi	Assigned to BioSET	Small	Issued
App No. 2007-556427	Filed 2/22/2006						
Pub. No. 2008-531505	Publication 8/14/2008						
8,101,570	Filed 5/24/2010	Single Branch Heparin- Binding Growth Factor Analog	CON of 11/359,173 which claims priority to 60/655,570	Kazuyuki Takahashi Paul O. Zamora Louis A. Pena* Xinhua Lin*	Assigned to BioSET	Small	Issued
App. No. 12/786,256	Issued 1/24/2012						

\*assignment to Bioset pursuant to an independent consulting agreement



**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1023**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
7,598,224 App. No. 11/065,970	Filed 2/24/2005 Issued 10/6/2009	Dual Chain Synthetic Heparin- Binding Growth Factor Analog	60/547,626 CIP of 11/064,039 which claims priority to 60/547,012 which is a CIP of 10/644,703 which is a CIP of 10/224,268	Paul Zamora, Louis A. Pena*, Xinhua Lin*	Assigned to BioSET	Small	Issued

\*assignment to BioSet pursuant to an independent consulting agreement

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1024**

<b>Serial/ Patent #</b>	<b>Filing/Issue Date</b>	<b>Title</b>	<b>Priority Claim</b>	<b>Inventors</b>	<b>Ownership</b>	<b>Entity Status</b>	<b>Current Status</b>
7,414,028	Filed 2/4/2005	Growth Factor Analog	60/542,272	Paul Zamora, Louis A. Pena*, Xinhua Lin*	Assigned to BioSET	Small	Issued
App. No. 11/051,292	Issued 8/19/2008						

\*assignment to BioSet pursuant to an independent consulting agreement

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1025**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
11/927,118	Filed 10/29/2007	Growth Factor Analogues	DIV of 11/051,292 which claims priority to 60/542,727	Paul Zamora, Louis A. Pena*, Xinhua Lin*	Not Assigned	Small	Abandoned

\*assignment to Bioset pursuant to an independent consulting agreement

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1026**

<b>Serial/ Patent #</b>	<b>Filing/Issue Date</b>	<b>Title</b>	<b>Priority Claim</b>	<b>Inventors</b>	<b>Ownership</b>	<b>Entity Status</b>	<b>Current Status</b>
11/963,677	Filed 12/21/2007	Coating Device and Method for Coating Medical Device with Bioactive Peptide	CIP of 11/767,391 which claims priority 60/805,594	Paul Zamora, Brent Atkinson	Assigned to BioSET	Small	Abandoned

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1027**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
8,163,717  App No. 12/574,484	Filed 10/06/2009  Issued 4/24/2012	Dual Chain Synthetic Heparin- Binding Growth Factor Analog	CON of 11/065,970 which claims priority to 60/547,626; '970 is a CIP of 11/064,039 which claims priority to 60/547,012; '039 is a CIP of 10/644,703 which is a CIP of 10/224,268	Paul Zamora, Louis A. Pena*, Xinhua Lin*	Assigned to BioSET	Small	Issued

\*assignment to Bioaset pursuant to an independent consulting agreement

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1028**

<b>Serial/ Patent #</b>	<b>Filing/Issue Date</b>	<b>Title</b>	<b>Priority Claim</b>	<b>Inventors</b>	<b>Ownership</b>	<b>Entity Status</b>	<b>Current Status</b>
61/259,423	Filed 11/09/2009	Delivery System and Method for Bone Graft Delivery to Vertebral Interbody Sites		Brent Lee Atkinson, Jeff Kaigan	Assigned to BioSET	Small	Expired
61/411,879	Filed 11/09/2010	Delivery System and Method for Bone Graft Delivery to Vertebral Interbody Sites		Brent Lee Atkinson, Jeff Kaigan		Small	Expired

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1031**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
13/357,461	1/24/2012	Single Branch Heparin-Binding Growth Factor Analog	CON of 12/786,256 which is a CON of 11/359,173 which claims priority to 60/655,570	Kazuyuki Takahashi, Paul O. Zamora, Louis A. Pena*, Xinhua Lin*		Small	Abandoned

\*assignment to Bioset pursuant to an independent consulting agreement

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1032**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
13/454,933	Filed 4/24/2012	Dual Chain Synthetic Heparin- Binding Growth Factor Analog	CON of 12/574,484 which is a CON of 11/065,970 which claims priority to 60/547,626; '970 is a CIP of 11/064,039 which claims priority to 60/547,012; '039 is a CIP of 10/644,703 which is a CIP of 10/224,268	Paul Zamora, Louis A. Pena*, Xinhua Lin*	Assigned to Bioset	Small	Abandoned

\* assignment to Bioset pursuant to an independent consulting agreement



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JOINTLY-OWNED ASSIGNED PATENT RIGHTS

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1008**

<b>Serial/ Patent #</b>	<b>Filing/Issue Date</b>	<b>Title</b>	<b>Priority Claim</b>	<b>Inventors</b>	<b>Ownership</b>	<b>Entity Status</b>	<b>Current Status</b>
7,166,574 App. No. 10/224,268	Filed 8/20/2002  Issued 1/23/2007	Synthetic Heparin- Binding Growth Factor Analog	No priority	Louis Pena, Paul Zamora, Xinhua Lin; John D. Glass	Assigned to BioSET and Brookhaven	Small	Issued
<b>Canada</b> 2,496,732	Filed 8/20/2003	Synthetic Heparin- Binding Growth Factor Analog	PCT/US03/26189 10/224,268	Louis Pena, Paul Zamora, Xinhua Lin; John D. Glass	Assigned to BioSET and Brookhaven	Large	Pending
<b>Europe</b> 03793219.1  Pub. No. 1539801	Filed 8/20/2003  Published 7/15/2005	Synthetic Heparin- Binding Growth Factor Analog	PCT/US03/26189 10/224,268	Louis Pena, Paul Zamora, Xinhua Lin; John D. Glass	Assigned to BioSET and Brookhaven	Small	Pending
<b>Japan</b> 2004-529777  Pat. No. 4,712,383	Filed 8/20/2003  Issued 4/1/2011	Synthetic Heparin- Binding Growth Factor Analog	PCT/US03/26189 10/224,268 10/644,703	Louis Pena, Paul Zamora, Xinhua Lin; John D. Glass	Assigned to BioSET and Brookhaven	Small	Issued
<b>Japan</b> 2010-262096  Pat. No. 5,346,911	Filed 11/10/2010  Issued 8/23/2013	Synthetic Heparin- Binding Growth Factor Analog	Japan 2004-529777	Louis Pena, Paul Zamora, Xinhua Lin; John D. Glass	Assigned to BioSET and Brookhaven	Small	Issued

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1008**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
Israel 166995	Filed 8/20/2003	Synthetic Heparin- Binding Growth Factor Analog	PCT/US03/26189 10/224,268	Louis Pena, Paul Zamora, Xinhua Lin, John D. Glass	Assigned to BioSET and Brookhaven	Small	Abandoned
New Zealand 538,646	Filed 8/20/2003  Published 2/28/2008	Synthetic Heparin- Binding Growth Factor Analog	PCT/US03/26189 10/224,268	Louis Pena, Paul Zamora, Xinhua Lin, John D. Glass	Assigned to BioSET and Brookhaven	Small	Abandoned
Australia 2003262764	Filed 8/20/2003	Synthetic Heparin- Binding Growth Factor Analog	PCT/US03/26189 10/224,268	Louis Pena, Paul Zamora, Xinhua Lin, John D. Glass	Assigned to BioSET and Brookhaven	Small	Abandoned
PCT/US2003/026189	Filed 8/20/2003	Synthetic Heparin- Binding Growth Factor Analog	10/224,268 filed 8/20/2002; 10/644,703 filed 08/19/2003	Louis A. Pena, Paul O. Zamora, Xinhua Lin, John D. Glass	Named applicants are BioSET and Brookhaven		Expired

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1014**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
7,981,862  App. No. 11/767,391	Filed 6/22/2007  Issued 7/19/2011	Composition and Method For Delivery of BMP-2 Amplifier/Co- Activator for Enhancement of Osteogenesis	60/805,594  CIP of 11/064,039 which claims priority to 60/547,012; '039 is a CIP of 10/644,703 which is a CIP of 10/224,268	Paul Zamora, Brent Atkinson  Add Pena and Lin as inventors with assignment to BNL	Assigned to BioSET	Small	Issued
PCT/US0771946  Pub. No. WO 2007/150053	Filed 6/22/2007  Published 12/27/2007	Composition and Method For Delivery of BMP-2 Amplifier/Co- Activator for Enhancement of Osteogenesis	60/805,594	Paul Zamora, Brent Atkinson	Assigned to BioSET	Small	Completed
Canada 2,692,240	Filed 6/22/2007	Composition and Method For Delivery of BMP-2 Amplifier/Co- Activator for Enhancement of Osteogenesis	PCT/US0771946	Paul Zamora, Brent Atkinson  Add Pena and Lin as inventors with assignment to BNL	Assigned to BioSET	Large	Pending

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1014**

<b>Serial/ Patent #</b>	<b>Filing/Issue Date</b>	<b>Title</b>	<b>Priority Claim</b>	<b>Inventors</b>	<b>Ownership</b>	<b>Entity Status</b>	<b>Current Status</b>
<b>Japan</b> 2009-516753	Filed 6/22/2007	Composition and Method For Delivery of BMP-2 Amplifier/Co- Activator for Enhancement of Osteogenesis	PCT/US07/71946	Paul Zamora, Brent Atkinson	Assigned to BioSET	Small	Abandoned
<b>Europe</b> 07798963.0	Filed 6/22/2007	Composition and Method For Delivery of BMP-2 Amplifier/Co- Activator for Enhancement of Osteogenesis	PCT/US07/71946	Paul Zamora, Brent Atkinson	Assigned to BioSET	Small	Abandoned

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
30817-1017

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
7,482,427 App. No. 11/064,039	Filed 2/22/2005  Issued 1/27/2009	Positive Modulator of Bone Morphogenic Protein-2	60/547,012  CIP of 10/644,703 which is a CIP of 10/224,268	Louis Pena, Paul Zamora, Xinhua Lin; Kazuyuki Takahashi	Assigned to BioSET and Brookhaven	Small	Issued
PCT/US05/05880	Filed 2/22/2005	Positive Modulator of Bone Morphogenic Protein-2	60/547,012	Louis Pena, Paul Zamora, Xinhua Lin; Kazuyuki Takahashi	Assigned to BioSET and Brookhaven	Small	Completed
<b>Europe</b> 05723656.4  Pub. No. 1725576	Filed 2/22/2005  Publication 11/29/2006	Positive Modulator of Bone Morphogenic Protein-2	PCT/US05/05880	Louis Pena, Paul Zamora, Xinhua Lin; Kazuyuki Takahashi	Assigned to BioSET and Brookhaven	Small	Issued
<b>France</b> App. No. 05723656.4 Pat. No. 1725576	Issued 9/22/2010	Positive Modulator of Bone Morphogenic Protein-2	Europe 05723656.4 Validation	Louis Pena, Paul Zamora, Xinhua Lin; Kazuyuki Takahashi	Assigned to BioSET and Brookhaven	Small	Issued

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
30817-1017

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
<b>Germany</b> App. No. 05723656.4 Pat No. 602005023714.3	Issued 9/22/2010	Positive Modulator of Bone Morphogenic Protein-2	Europe 05723656.4 Validation	Louis Pena, Paul Zamora, Xinhua Lin; Kazuyuki Takahashi	Assigned to BioSET and Brookhaven	Small	Issued
<b>United Kingdom</b> App. No. 05723656.4 Pat. No. 1725576	Issued 9/22/2010	Positive Modulator of Bone Morphogenic Protein-2	Europe 05723656.4 Validation	Louis Pena, Paul Zamora, Xinhua Lin; Kazuyuki Takahashi	Assigned to BioSET and Brookhaven	Small	Issued
<b>Japan</b> 4895826 App. No. 2006-554324 Pub. No. 2007-525499	Issued 1/6/2012 Filed 2/22/2005 Publication 9/6/2007	Positive Modulator of Bone Morphogenic Protein-2	PCT/US05/05880	Louis Pena, Paul Zamora, Xinhua Lin; Kazuyuki Takahashi	Assigned to BioSET and Brookhaven	Small	Issued
<b>Canada</b> 2,555,583	Filed 8/04/2006	Positive Modulator of Bone Morphogenic Protein-2	PCT/US05/05880	Louis Pena, Paul Zamora, Xinhua Lin; Kazuyuki Takahashi	Assigned to BioSET and Brookhaven	Large	<b>Abandoned</b>



**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1018**

<b>Serial/ Patent #</b>	<b>Filing/Issue Date</b>	<b>Title</b>	<b>Priority Claim</b>	<b>Inventors</b>	<b>Ownership</b>	<b>Entity Status</b>	<b>Current Status</b>
12/023,801	Filed 01/31/2008	Positive Modulator of Bone Morphogenic Protein-2	DIV of 11/064,039 which is a CIP of 10/644,703 which is a CIP of 10/224,268	Louis Pena, Paul Zamora, Xinhua Lin, Kazuyuki Takahashi	Assigned to BioSET and Brookhaven	Small	Pending

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1020**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
7,671,012 App. No. 11/361,090	Filed 2/23/2006  Issued 3/2/2010	Formulations and Method for Delivery of Growth Factor Analogues	60/656,714 60/656,713 60/656,174  CIP of 11/167,636 which is a CIP of 11/055,428 which claims priority to 60/543,616  CIP of 11/359,173 which claims priority to 60/655,570	Paul O. Zamora, Sarah Albright (aka) Sarah Campion  Add Pena and Lin as inventors with assignment to BNL	Assigned to BioSET	Small	Issued
PCT/US06/006472  Pub. No. 2006/093808	Filed 2/24/2006  Published 9/8/2006	Formulations and Method for Delivery of Growth Factor Analogues	60/656,713 60/656,714 60/656,174 11/361,090	Paul O. Zamora, Sarah Albright	Assigned to BioSET	Small	Completed
<b>Canada</b> 2,599,134	Filed 2/24/2006	Formulations and Method for Delivery of Growth Factor Analogues	PCT/US06/06472	Paul O. Zamora	Assigned to BioSET	Large	<b>Abandoned</b>
<b>Europe</b> 06735934.9  Pub. No. 1855703	Filed 2/24/2006  Published 11/21/2007	Formulations and Method for Delivery of Growth Factor Analogues	PCT/06/006472	Paul O. Zamora	Assigned to BioSET	Small	<b>Abandoned</b>

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1021**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
8,227,411 App. No. 11/361,565	Issued 7/24/2012 Filed 2/23/2006	FGF Growth Factor Analog	60/656,860 CIP of 11/064,039 which claims priority to 60/547,012; '039 is a CIP of 10/644,703 which is a CIP of 10/224,268 CIP of 11/065,970 which claims priority to 60/547,626	Paul O. Zamora, Xinhua Lin, Louis A. Pena, Kazuyuki Takahashi	Assigned to BioSET and Brookhaven	Small	Issued
PCT/US06/006488 Pub. No. 2006/093814	Filed 2/24/2006 Published 9/8/2006	FGF Growth Factor Analog	60/656,860	Paul O. Zamora, Xinhua Lin, Louis A. Pena, Kazuyuki Takahashi	Assigned to BioSET and Brookhaven	Small	Completed
Canada 2,599,240	Filed 2/24/2006	FGF Growth Factor Analog	PCT/US06/06488	Paul O. Zamora, Xinhua Lin, Louis A. Pena, Kazuyuki Takahashi	Assigned to BioSET and Brookhaven	Large	Pending
Europe 06735950.5 Pub. No. 1856146	Filed 2/24/2006 Published 11/21/2007	FGF Growth Factor Analog	PCT/US06/06488	Paul O. Zamora, Xinhua Lin, Louis A. Pena, Kazuyuki Takahashi	Assigned to BioSET and Brookhaven	Small	Pending

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1022**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Small Entity	Current Status
7,700,563 App. No. 10/644,703	Filed 8/19/2003  Issued 4/20/2010	Synthetic Heparin- Binding Growth Factor Analog	CIP of 10/224,268	Louis Pena, Paul Zamora, Xinhua Lin, John D. Glass	Assigned to BioSET and Brookhaven	Small	Issued

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1029**

<b>Serial/ Patent #</b>	<b>Filing/Issue Date</b>	<b>Title</b>	<b>Priority Claim</b>	<b>Inventors</b>	<b>Ownership</b>	<b>Entity Status</b>	<b>Current Status</b>
12/716,145	Filed 3/2/2010	Formulations and Methods for Delivery of Growth Factor Analogs	Con of 11/361,090 CIP of 11/167,636	Paul O. Zamora and Sarah Campion Add Pena and Lin	Assigned to BioSET	Small	Abandoned

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1030**

<b>Serial/ Patent #</b>	<b>Filing/Issue Date</b>	<b>Title</b>	<b>Priority Claim</b>	<b>Inventors</b>	<b>Ownership</b>	<b>Entity Status</b>	<b>Current Status</b>
8,796,212 App. No. 13/186,165	Filed 7/19/2011 Issued 8/5/2014	Composition and Method for Delivery of a Partial Agonist of BMP-2 for Enhancement of Osteogenesis	DIV of 11/767,391 which claims priority to 60/805,594; '391 is a CIP of 11/064,039 which claims priority to 60/547,012; '039 is a CIP of 10/644,703 which is a CIP of 10/224,268	Paul Zamora, Brent Lee Atkinson, Xinhua Lin, Louis A. Pena	Assigned to BioSET and Brookhaven	Small	Issued

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**30817-1033**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
13/556,644	Filed 7/24/2012	FGF Growth Factor Analog	DIV of 11/361,565 which claims priority to 60/656,860; '565 is a CIP of 11/064,039 which claims priority to 60/547,012; '039 is a CIP of 10/644,703 which is a CIP of 10/224,268; '565 is a CIP of 11/065,970 which claims priority to 60/547,626	Paul O. Zamora, Xinhua Lin, Louis A. Pena, Kazuyuki Takahashi	Assigned to BioSET and Brookhaven	Small	Abandoned

**BIOSURFACE ENGINEERING TECHNOLOGIES, INC. PATENT MATTERS**  
**30817-1035**

Serial/ Patent #	Filing/Issue Date	Title	Priority Claim	Inventors	Ownership	Entity Status	Current Status
14/452,304	8/5/2014	Composition and Method for Delivery of a Partial Agonist of BMP-2 for Enhancement of Osteogenesis	CONT of 13/186,165 which is a DIV of 11/767,391 which claims priority to 60/805,594; '391 is a CIP of 11/064,039 which claims priority to 60/547,012; '039 is a CIP of 10/644,703 which is a CIP of 10/224,268	Paul O. Zamora, Brent Lee Atkinson, Xinhua Lin, Louis A. Pena	Assigned to BioSET and Brookhaven	Small	Pending



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