

07-30-2003

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102511172

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

LifeNet Research Foundation

## 2. Name and address of receiving party(ies)

Name: LifeNet

Internal Address: \_\_\_\_\_

Street Address: 5809 Ward Court

City: Virginia Beach State: VA Zip: 23455

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other \_\_\_\_\_

Execution Date: 7/8/03

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) \_\_\_\_\_

B. Patent No.(s) 5,275,954;  
5,531,791; 5,556,379; 5,797,871;Additional numbers attached? ☒ Yes ☐ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: HALE AND DORR LLP

Internal Address: \_\_\_\_\_

Street Address: 1455 Pennsylvania Ave., N.W.

City: Washington State: DC Zip: 20004

## 6. Total number of applications and patents involved: 8

7. Total fee (37 CFR 3.41).....\$ 320.00



Enclosed



Authorized to be charged to deposit account

## 8. Deposit account number:

08-0129

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## 9. Signature.

07/29/2003 J2ALLAN2 00000011 000219 5275954

01 FC:8021

320.00 DA

Maria L. Macbini

Name of Person Signing

Maria L. Macbini

Signature

7/22/03

Date

Total number of pages including cover sheet, attachments, and documents: 6

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231PATENT  
REEL: 014313 FRAME: 0498

Continuation of Item 4

5,820,581

5,976,104

5,977,034

6,024,735

## ASSIGNMENT

WHEREAS LIFENET RESEARCH FOUNDATION, INC. ("Assignor"), a corporation organized under the laws of the Commonwealth of Virginia and having an address of 5809 Ward Court, Virginia Beach, Virginia 23455, having been assigned certain new and useful inventions as set forth in the following applications for United States Letters Patent:

U.S. Patent No.	Issue Date	Title
5,275,954	January 4, 1994	Process for Demineralization of Bone Using Column Extraction
5,531,791	July 2, 1996	Composition for Repair of Defects in Osseous Tissues, method of Making, and Prosthesis
5,556,379	September 17, 1996	Process for Cleaning Large Bone Grafts and Bone Grafts Produced Thereby
5,797,871	August 25, 1998	Ultrasonic Cleaning of Allograft Bone
5,820,581	October 13, 1998	Process for cleaning large bone grafts and bone grafts produced thereby
5,976,104	November 2, 1999	Recirculation Method for Cleaning Essentially Intact Bone Grafts Using Pressure Mediated Flow of Solutions and Bone Grafts Produced Thereby
5,977,034	November 2, 1999	Composition for Cleaning Bones
6,024,735	February 15, 2000	Process and Composition for Cleaning Soft Tissue Grafts Optionally Attached to Bone and Soft Tissue and Bone Grafts Produced Thereby

AND WHEREAS, LIFENET ("Assignee"), a corporation organized under the laws of the Commonwealth of Virginia and having an address of 5809 Ward Court, Virginia Beach, VA 23455, USA, is desirous of acquiring the entire right, title and interest in and to said invention and in and to all of the above-identified Letters Patent of the United States and any and all Letters Patents of the United States foreign countries which may be obtained therefrom;

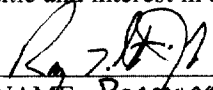
NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, Assignor does hereby sell, assign, transfer and set over unto Assignee, its legal representatives, successors, and assigns, the entire right, title and interest in and to said inventions as set forth in the above-mentioned patents, application, any patent applications in the United States and foreign countries arising therefrom, and any original applications, formal applications, continuation applications, continuations-in-part applications, continued prosecution applications, request for continued examination applications, divisional applications, reissue applications, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention, and all rights to claim priority therefrom and/or thereto; and any copyright or designs associated with or in said invention; and all rights of action and damages for any past, present or future infringement relating thereto, including all rights of actions and damages from publication of the patent applications and/or issuance of any patent relating thereto;

UPON SAID CONSIDERATIONS, Assignor hereby agrees with the said Assignee that Assignor will not execute any writing or do any act whatsoever conflicting with these presents, and that Assignor will, at any time upon request, without further or additional consideration but at the expense of said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choices in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of Assignor and Assignee;

The undersigned hereby grant(s) the firm of HALE and DORR LLP the power to insert on this Assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

## ASSIGNMENT

AND Assignor requests the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said LIFENET, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

  
NAME: Raymond T. St. John  
TITLE: Secretary  
LIFENET RESEARCH FOUNDATION

July 8, 2003  
Date

Witnessed by:

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

U.S. Patent Nos. 5,275,954; 5,531,791; 5,556,379  
5,797,871; 5,820,581; 5,976,104  
5,977,034; 6,024,735

**STATEMENT UNDER 37 C.F.R. 3.73(b)**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with the provisions of 37 C.F.R. 3.73(b), LIFENET RESEARCH FOUNDATION hereby states that it is the assignee of the entire right, title, and interest of the following U.S. Patents by virtue of a chain of title from the inventors to the current assignee as follows:

<b>U.S. Patent No.</b>	<b>Issue Date</b>	<b>Title</b>	<b>Assignment from Inventors to LIFENET RESEARCH FOUNDATION Recorded as Frame/Reel</b>
5,275,954	January 4, 1994	Process for Demineralization of Bone Using Column Extraction	Assignment from Lloyd Wolfinbarger and Scott Bottenfield to LIFENET recorded on March 5, 1991 at Reel 5643, Frame No. 0862; Assignment from LIFENET to LIFENET RESEARCH FOUNDATION recorded on December 20, 1994 at Reel 007265, Frame No. 0248
5,531,791	July 2, 1996	Composition for Repair of Defects in Osseous Tissues, method of Making, and Prosthesis	Assignment from inventor Lloyd Wolfinbarger, Jr. Ph.D. to LIFENET recorded on July 23, 1993 at Reel 6644, Frame No. 144; Assignment from LIFENET to BIOSCIENCE CONSULTANTS recorded on January 6, 1995 at Reel 7279, Frame No. 651; Assignment from BIOSCIENCE CONSULTANTS to LIFENET RESEARCH FOUNDATION recorded on May 10, 1999 at Reel 9935, Frame No. 869.
5,556,379	September 17, 1996	Process for Cleaning Large Bone Grafts and Bone Grafts Produced Thereby	Assignment from inventor Lloyd Wolfinbarger, Jr. to LIFENET RESEARCH FOUNDATION recorded on February 27, 1995 at Reel 7366,

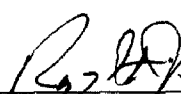
U.S. Patent No.	Issue Date	Title	Assignment from Inventors to LIFENET RESEARCH FOUNDATION Recorded as Frame/Reel
			Frame No. 478
5,797,871	August 25, 1998	Ultrasonic Cleaning of Allograft Bone	Assignment from inventor Lloyd Wolfinbarger, Jr. to LIFENET RESEARCH FOUNDATION recorded on July 18, 1996 at Reel 8038, Frame No. 701
5,820,581	October 13, 1998	Process for cleaning large bone grafts and bone grafts produced thereby	Assignment from inventor Lloyd Wolfinbarger, Jr. to LIFENET RESEARCH FOUNDATION recorded on February 27, 1995 at Reel 7366, Frame No. 478 (by virtue of parent application corresponding to U.S. Patent No. 5,556,379)
5,976,104	November 2, 1999	Recirculation Method for Cleaning Essentially Intact Bone Grafts Using Pressure Mediated Flow of Solutions and Bone Grafts Produced Thereby	Assignment from inventor Lloyd Wolfinbarger, Jr. to LIFENET RESEARCH FOUNDATION recorded on July 18, 1996 at Reel 8038, Frame No. 737
5,977,034	November 2, 1999	Composition for Cleaning Bones	Assignment from inventor Lloyd Wolfinbarger, Jr. to LIFENET RESEARCH FOUNDATION recorded on March 20, 1996 at Reel 7922, Frame No. 751
6,024,735	February 15, 2000	Process and Composition for Cleaning Soft Tissue Grafts Optionally Attached to Bone and Soft Tissue and Bone Grafts Produced Thereby	Assignment from inventor Lloyd Wolfinbarger, Jr. to LIFENET RESEARCH FOUNDATION recorded on January 23, 1998 at Reel 8991, Frame No. 837

The undersigned is empowered to sign this statement on behalf of the assignee

LIFENET RESEARCH FOUNDATION

Date: July 8, 2003

By:

  
NAME: Raymond T. St. John  
TITLE: Secretary