

# PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>David L. Kaplan</td> <td>04/08/2009</td> </tr> <tr> <td>Hyeon Joo Kim</td> <td>05/11/2009</td> </tr> <tr> <td>Gerard Kugel</td> <td>03/17/2009</td> </tr> </tbody> </table>		Name	Execution Date	David L. Kaplan	04/08/2009	Hyeon Joo Kim	05/11/2009	Gerard Kugel	03/17/2009		
Name	Execution Date										
David L. Kaplan	04/08/2009										
Hyeon Joo Kim	05/11/2009										
Gerard Kugel	03/17/2009										
<b>RECEIVING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>TRUSTEES OF TUFTS COLLEGE</td> </tr> <tr> <td>Street Address:</td> <td>Ballou Hall</td> </tr> <tr> <td>City:</td> <td>Medford</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>02155</td> </tr> </table>		Name:	TRUSTEES OF TUFTS COLLEGE	Street Address:	Ballou Hall	City:	Medford	State/Country:	MASSACHUSETTS	Postal Code:	02155
Name:	TRUSTEES OF TUFTS COLLEGE										
Street Address:	Ballou Hall										
City:	Medford										
State/Country:	MASSACHUSETTS										
Postal Code:	02155										
<b>PROPERTY NUMBERS Total: 1</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US0933309</td> </tr> </tbody> </table>		Property Type	Number	PCT Number:	US0933309						
Property Type	Number										
PCT Number:	US0933309										
<b>CORRESPONDENCE DATA</b>											
Fax Number: (617)345-1300 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 617-345-6057 Email: hallan@nixonpeabody.com Correspondent Name: David Resnick Address Line 1: 100 Summer Street Address Line 2: Nixon Peabody LLP Address Line 4: Boston, MASSACHUSETTS 02110-2131											
ATTORNEY DOCKET NUMBER:	700355-060182-PCT										
NAME OF SUBMITTER:	Hillary Allan										
Total Attachments: 4 source=700355-060182-PCT Assignment#page1.tif											

CH \$40.00 US0933309

**500867290**

**PATENT**  
**REEL: 022725 FRAME: 0375**

source=700355-060182-PCT Assignment#page2.tif  
source=700355-060182-PCT Assignment#page3.tif  
source=700355-060182-PCT Assignment#page4.tif

**ASSIGNMENT OF INVENTION CONTAINED IN PCT APPLICATION  
(MULTIPLE INVENTORS)**

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNORS (inventors):**

Name : David L. Kaplan

Address: 46 Pond Street  
Concord, MA 01742  
US

Nationality: US

Name : Hyeon Joo Kim

Address: 7783 Lilac Way  
Cupertino, CA 95014  
US

Nationality: KR

Name : Gerard Kugel

Address: 171 Burlington Street  
Lexington, MA 02420  
US

Nationality: US

hereby sells, assigns and transfers to

**ASSIGNEE:**

Name: TRUSTEES OF TUFTS COLLEGE

Address: Ballou Hall  
Medford, MA 02155  
US

Nationality: US


and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest and in all foreign countries, including all rights to claim priority in and to any and all improvements which are disclosed in the invention entitled **3-DIMENSIONAL SILK HYDROXYAPATITE COMPOSITIONS** and which is found in (37 C.F.R. Section 3.21) PCT application Serial No. **PCT/US09/33309**, with an International Filing Date of **February 6, 2009**, and any legal equivalent thereof in any designated country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any re-issue or re-examination thereof;

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

The undersigned hereby grant(s) the law firm of Nixon Peabody LLP of 100 Summer Street, Boston, Massachusetts 02110-2131, U.S.A. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark, Office for recordation of this document.

IN TESTIMONY WHEREOF, I, David L. Kaplan, hereunto set my signature this 8<sup>th</sup> day of April, 2009.

  
David L. Kaplan

IN TESTIMONY WHEREOF, I, Hyeon Joo Kim, hereunto set my signature \_\_\_\_ day of \_\_\_\_\_, 2009.

\_\_\_\_\_  
Hyeon Joo Kim

IN TESTIMONY WHEREOF, I, Gerard Kugel, hereunto set my signature \_\_\_\_ day of \_\_\_\_\_, 2009.

\_\_\_\_\_  
Gerard Kugel

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest and in all foreign countries, including all rights to claim priority in and to any and all improvements which are disclosed in the invention entitled **3-DIMENSIONAL SILK HYDROXYAPATITE COMPOSITIONS** and which is found in (37 C.F.R. Section 3.21) PCT application Serial No. **PCT/US09/33309**, with an International Filing Date of **February 6, 2009**, and any legal equivalent thereof in any designated country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any re-issue or re-examination thereof;

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

The undersigned hereby grant(s) the law firm of Nixon Peabody LLP of 100 Summer Street, Boston, Massachusetts 02110-2131, U.S.A. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark, Office for recordation of this document.

IN TESTIMONY WHEREOF, I, David L. Kaplan, hereunto set my signature this \_\_\_\_ day of \_\_\_\_\_, 2009.

\_\_\_\_\_  
David L. Kaplan

IN TESTIMONY WHEREOF, I, Hyeon Joo Kim, hereunto set my signature 11 day of May, 2009.

Hyeon Joo Kim  
Hyeon Joo Kim

IN TESTIMONY WHEREOF, I, Gerard Kugel, hereunto set my signature \_\_\_\_ day of \_\_\_\_\_, 2009.

\_\_\_\_\_  
Gerard Kugel

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest and in all foreign countries, including all rights to claim priority in and to any and all improvements which are disclosed in the invention entitled **3-DIMENSIONAL SILK HYDROXYAPATITE COMPOSITIONS** and which is found in (37 C.F.R. Section 3.21) PCT application Serial No. PCT/US09/33309, with an International Filing Date of February 6, 2009, and any legal equivalent thereof in any designated country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any re-issue or re-examination thereof;

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

The undersigned hereby grant(s) the law firm of Nixon Peabody LLP of 100 Summer Street, Boston, Massachusetts 02110-2131, U.S.A. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark, Office for recordation of this document.


IN TESTIMONY WHEREOF, I, David L. Kaplan, hereunto set my signature this \_\_\_\_ day of \_\_\_\_\_, 2009.

\_\_\_\_\_  
David L. Kaplan

IN TESTIMONY WHEREOF, I, Hyeon Joo Kim, hereunto set my signature \_\_\_\_ day of \_\_\_\_\_, 2009.

\_\_\_\_\_  
Hyeon Joo Kim

IN TESTIMONY WHEREOF, I, Gerard Kugel, hereunto set my signature 17 day of March, 2009.

  
Gerard Kugel