

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Roger Withington</td> <td>01/10/2012</td> </tr> <tr> <td>David Pierce</td> <td>01/04/2012</td> </tr> </tbody> </table>		Name	Execution Date	Roger Withington	01/10/2012	David Pierce	01/04/2012
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Roger Withington	01/10/2012						
David Pierce	01/04/2012						
RECEIVING PARTY DATA							
Name:	SHIRE LLC						
Street Address:	9200 Brookfield Court						
City:	Florence						
State/Country:	KENTUCKY						
Postal Code:	41042						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13307718</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13307718		
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Application Number:	13307718						
CORRESPONDENCE DATA							
Fax Number:	(212)588-0500						
Phone:	(206) 336-5673						
Email:	prosecutiondocketing@flhlaw.com						
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>							
Correspondent Name:	Frommer Lawrence & Haug, LLP						
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Address Line 4:	New York, NEW YORK 10151						
ATTORNEY DOCKET NUMBER:	1372001-2025.1						
NAME OF SUBMITTER:	Laura A. Gold						
Total Attachments: 6 source=01042906#page1.tif source=01042906#page2.tif source=01042906#page3.tif source=01042906#page4.tif source=01042906#page5.tif source=01042906#page6.tif							

OP \$40.00 13307718

ASSIGNMENT

I, Roger Withington, a citizen of United Kingdom, residing at Farnham, Surrey, England; and

I, David Pierce, a citizen of United Kingdom, residing at Hertfordshire, United Kingdom;

and each of us, if more than one person is identified above (hereinafter "ASSIGNOR") for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, paid to ASSIGNOR by

SHIRE LLC

a company organized under the laws of Kentucky, located at 9200 Brookfield Court, Florence, KY 41042 (hereinafter "ASSIGNEE"), do hereby sell and assign to said ASSIGNEE, its successors and assigns, the below indicated right, title, and interest, **throughout the world** in and to my Invention entitled:

CAPSULE AND POWDER FORMULATIONS CONTAINING LANTHANUM COMPOUNDS

invented by me and described in Patent Application No. 13/307,718, filed on November 30, 2011 in the United States of America; which claims priority to U.S. Patent Application No. 12/958,380 filed December 1, 2010 and all patents, divisions, reissues, continuations, continuations-in-part and any extensions thereof and rights of priority therein, including the right to sue for past infringement and any such recovery, said interest being my entire ownership interest in the same, to be held and enjoyed by said ASSIGNEE, its successors, assigns, or other legal representatives, to the full end of the term thereof, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made, including all rights of Assignor to recover for past infringement thereof;



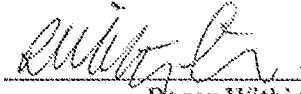
And for the consideration aforesaid, I hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counsel or representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with an application concerning said Invention, including interference proceedings, is lawful and desirable, or that a reissue or continuation or extension of such application or patent issuing therefrom is lawful and desirable, I will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors or assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense; and I hereby appoint every present or future officer of said ASSIGNEE as my agent to sign all such papers and to do all such necessary acts on my behalf, to the fullest extent permitted by law;

And I hereby authorize and request the Commissioner of Patents and Trademarks and any other granting authority to issue any Letters Patent resulting from said Invention and application(s) concerning same to said ASSIGNEE.

This assignment shall have an effective date corresponding to the last date of execution.

I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that I have signed this document as my own free act and that all of the foregoing is true and correct.

RW



Roger Withington

Date: 10 January 2012

David Pierce

Date: _____

ASSIGNMENT

I, Roger Withington, a citizen of United Kingdom, residing at Farnham, Surrey, England; and

I, David Pierce, a citizen of United Kingdom, residing at Hertfordshire, United Kingdom;

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And for the consideration aforesaid, I hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counsel or representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with an application concerning said Invention, including interference proceedings, is lawful and desirable, or that a reissue or continuation or extension of such application or patent issuing therefrom is lawful and desirable, I will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors or assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense; and I hereby appoint every present or future officer of said ASSIGNEE as my agent to sign all such papers and to do all such necessary acts on my behalf, to the fullest extent permitted by law;

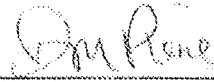
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Roger Withington

Date: _____



David Pierce

Date: 04 - Jan - 2012