

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>Josephine Christine Ferdinando</td><td>04/18/2008</td></tr><tr><td>Peter Neil Davies</td><td>04/18/2008</td></tr></tbody></table>	Name	Execution Date	Josephine Christine Ferdinando	04/18/2008	Peter Neil Davies	04/18/2008	
Name	Execution Date						
Josephine Christine Ferdinando	04/18/2008						
Peter Neil Davies	04/18/2008						
RECEIVING PARTY DATA							
Name:	Shire International Licensing B.V.						
Street Address:	Fred Roeskestraat, 123 Olympic Plaza						
City:	Amsterdam						
State/Country:	NETHERLANDS						
Postal Code:	1076EE						
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>11272569</td></tr></tbody></table>	Property Type	Number	Application Number:	11272569			
Property Type	Number						
Application Number:	11272569						
CORRESPONDENCE DATA							
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NAME OF SUBMITTER:	Mami Hasegawa						
Total Attachments: 3 source=01525700#page1.tif source=01525700#page2.tif source=01525700#page3.tif							

OP \$40.00 11272569

PATENT

500529379

REEL: 020890 FRAME: 0912

ASSIGNMENT

I, Josephine Christine Ferdinando, a citizen of the United Kingdom, residing at 4 Farriers Close; Bramely; Tadely; HAMPSHIRE; RG26 5AX; UNITED KINGDOM; and

I, Peter Neil Davies, a citizen of the United Kingdom, located at Shire Pharmaceutical Development; Hampshire International Business Park; BASINGSTOKE; RG24 8WE; UNITED KINGDOM;

and each of us, if more than one person is identified above (hereinafter "ASSIGNOR") in consideration of the sum of Ten Dollars (\$10.00), or the equivalent thereof, and other good and valuable consideration, the sufficiency of which and receipt of which are hereby acknowledged, paid to ASSIGNOR by

SHIRE INTERNATIONAL LICENSING B.V.

organized under the laws of The Netherlands, located at Fred Roeskestraat, 123 Olympic Plaza, 1076EE, Amsterdam, THE NETHERLANDS (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:

STABILIZED LANTHANUM CARBONATE COMPOSITIONS

invented by me and described in Patent Application No. 11/272,569, filed on November 9, 2005, in United States of America; and all patents, divisions, reissues, continuations and any extensions thereof and rights of priority therein, 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 be made;

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 Commission 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.

Dated: 18th April 2008

JCFerdinando
Josephine Christine Ferdinando,
Inventor

Dated: 18 April 2008

Pet Davies
Peter Neil Davies, Inventor

ACCEPTANCE BY ASSIGNEE

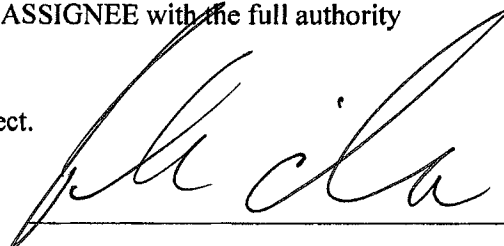
In connection with an assignment in any jurisdiction in which an acceptance by ASSIGNEE is required, I hereby accept this assignment on behalf of SHIRE INTERNATIONAL LICENSING B.V.. I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that (check all that apply):

- ☐ I am an officer of the above-identified ASSIGNEE,
- ☒ I have signed this document on behalf of ASSIGNEE with the full authority of its board of directors,

and that all the foregoing is true and correct.

Dated: 5-1-2008

By:
Name:
Title:

A handwritten signature in black ink, appearing to be "J. H. Cla", is written over a horizontal line.