

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5055052

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
STEVE BOWMAN	07/10/2018
CHASE FETZER	07/10/2018
RICHARD BRAGA	07/10/2018
EVI SHIAKOLAS	07/10/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SHIRE HUMAN GENETIC THERAPIES, INC.
<b>Street Address:</b>	300 SHIRE WAY
<b>City:</b>	LEXINGTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02421
<b>PROPERTY NUMBERS Total: 3</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15804439
<b>Application Number:</b>	62417862
<b>PCT Number:</b>	US1760177
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)856-8201
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	(617) 856-8200
<b>Email:</b>	ip@brownrudnick.com
<b>Correspondent Name:</b>	BROWN RUDNICK LLP
<b>Address Line 1:</b>	ONE FINANCIAL CENTER
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02111
<b>ATTORNEY DOCKET NUMBER:</b>	SHIR-003/01US 33543/47
<b>NAME OF SUBMITTER:</b>	THOMAS C. MEYERS
<b>SIGNATURE:</b>	/Thomas C. Meyers/
<b>DATE SIGNED:</b>	07/18/2018
<b>Total Attachments: 7</b>	

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**ASSIGNMENT**

**WHEREAS** we, the below named inventors,

**Steve Bowman, Chase Fetzer, Richard Braga, and Evi Shiakolas**

hereinafter referred to as "Assignor(s)" have made an invention(s), hereinafter referred to as the "Invention(s)," set forth in an application for patent, entitled:

**SMALL UNIT DOSAGE PLUNGER ROD STOPS**

for which we filed a U.S. Patent Application on **November 6, 2017**, which bears U.S. Patent Application Serial No. **15/804,439**; and

**SHIRE HUMAN GENETIC THERAPIES, INC.**, a Delaware corporation whose post office address is 300 Shire Way, Lexington, MA 02421 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Inventions; the applications for patent identified above; the right to file applications for patent of any country on the Inventions; any application for patent of any country claiming priority to these applications; any provisional or other right to recover damages, including royalties, for prior infringements of these patents applications; and any patent of any country that may be granted therefor or thereon.

**NOW, THEREFORE**, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application for patent identified above;
- (c) the right to file applications for patent of any country on the Invention(s), including all rights under the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;
- (d) any application(s) for patent of any country claiming the Invention(s);
- (e) any application(s) for patent of any country claiming priority to the application for patent identified above or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part; and

(f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the preceding paragraphs (b)-(e); and

(g) any patent(s) of any country that may be granted for or on any application for patent identified in the preceding paragraphs (b) – (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said applications, and said patents, including interference proceedings, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby requests the patent authority to issue/grant said patents of their respective country to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: 10 July 2018

By:   
Steve Bowman


State of Massachusetts )

) ss.

County of Middlesex )

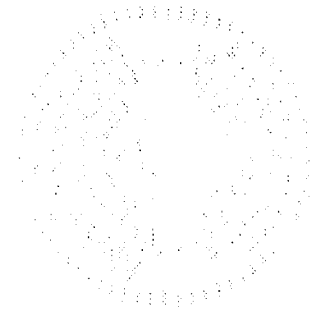
On 10 July 2018, before me, Amanda Cucchiara, Notary Public, personally appeared Steve Bowman, personally known to me or proved to me on the basis of satisfactory evidence of identification, which were license, to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

  
Signature of Notary Public

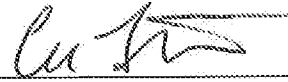
My Commission Expires: 15 June 2023

Place Notary Seal Above



Date: 10 July 2018

By:



Chase Fetzer

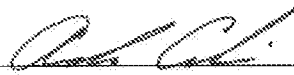
State of Massachusetts )

) ss.

County of Middlesex )

On 10 July 2018, before me, Amanda Cuxhiara, Notary Public, personally appeared Chase Fetzer, personally known to me or proved to me on the basis of satisfactory evidence of identification, which were license, to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

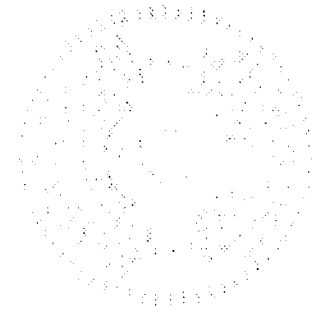
WITNESS my hand and official seal.



Signature of Notary Public

My Commission Expires: 15 June 2023

Place Notary Seal Above



Date: 10 JUL 2018

By:   
Richard Braga

State of Massachusetts )

) ss.

County of Middlesex )

On 10 July 2018, before me, Amanda Cucchiara, Notary Public, personally appeared Richard Braga, personally known to me or proved to me on the basis of satisfactory evidence of identification, which were license, to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

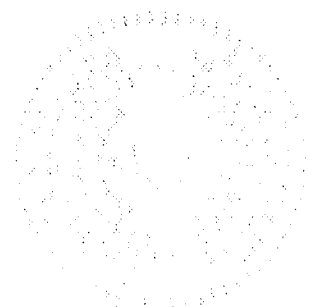
WITNESS my hand and official seal.



Signature of Notary Public

My Commission Expires: 15 June 2023

Place Notary Seal Above



Date: 10 July, 2018

By:   
Evi Shiakolas

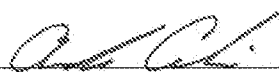
State of Massachusetts )

) ss.

County of Middlesex )

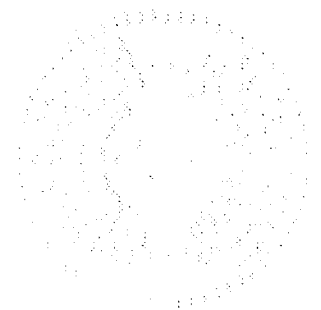
On 10 July <sup>2018</sup> ~~2017~~, before me, Amanda Cocchiara, Notary Public, personally appeared Evi Shiakolas, personally known to me or proved to me on the basis of satisfactory evidence of identification, which were license, to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

  
Signature of Notary Public

My Commission Expires: 15 June 2023

Place Notary Seal Above





Signature: Mg 2 Date: 10 July 2018

Print Name: Margo Furman

Title: VP Legal Intellectual Property

**Shire Human Genetic Therapies, Inc.**

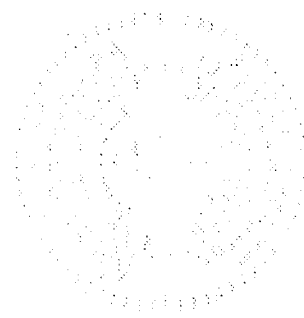
State of Massachusetts )  
 ) ss.

County of Middlesex )

On 10 July 2018, before me, Amanda Cocchiara, Notary Public, personally appeared Margo Furman, personally known to me or proved to me on the basis of satisfactory evidence of identification, which were license, to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Amanda Cocchiara  
Signature of Notary Public



My Commission Expires: 15 June 2023

Place Notary Seal Above

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