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| <b>PATENT ASSIGNMENT COVER SHEET</b> |
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4528444

|                              |   |
|------------------------------|---|
| <b>SUBMISSION TYPE:</b>      | CORRECTIVE ASSIGNMENT   |
| <b>NATURE OF CONVEYANCE:</b> | Corrective Assignment to correct the APPLICATION NUMBER FROM "IS2016014232" TO --US2016014232-- previously recorded on Reel 037849 Frame 0936. Assignor(s) hereby confirms the ASSIGNMENT DOCUMENT. |

**CONVEYING PARTY DATA**

| Name                   | Execution Date |
|------------------------|----------------|
| PIERROT HARVIE         | 02/22/2016     |
| SEAN D. MONAHAN        | 02/22/2016     |
| MARY G. PRIEVE         | 02/22/2016     |
| MICHAEL E. HOUSTON JR. | 02/22/2016     |

**RECEIVING PARTY DATA**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Name:</b>           | PHASERX, INC.                     |
| <b>Street Address:</b> | 410 W. HARRISON STREET, SUITE 300 |
| <b>City:</b>           | SEATTLE                           |
| <b>State/Country:</b>  | WASHINGTON                        |
| <b>Postal Code:</b>    | 98119                             |

**PROPERTY NUMBERS Total: 1**

| Property Type      | Number       |
|--------------------|--------------|
| <b>PCT Number:</b> | US2016014232 |

**CORRESPONDENCE DATA**

**Fax Number:** (650)938-5200  
*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.*

**Phone:** 6503357621  
**Email:** kwoo@fenwick.com  
**Correspondent Name:** MARK KINCH  
**Address Line 1:** FENWICK & WEST LLP  
**Address Line 2:** 801 CALIFORNIA STREET  
**Address Line 4:** MOUNTAIN VIEW, CALIFORNIA 94041

|                                |                             |
|--------------------------------|-----------------------------|
| <b>ATTORNEY DOCKET NUMBER:</b> | 33099-34172/PCT             |
| <b>NAME OF SUBMITTER:</b>      | MARK KINCH, REG. NO. 72,143 |
| <b>SIGNATURE:</b>              | /Mark Kinch/                |
| <b>DATE SIGNED:</b>            | 07/31/2017                  |

**Total Attachments: 5**

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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3760183

|   |                                   |
|---|-----------------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                    |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                        |
| <b>CONVEYING PARTY DATA</b>   |                                   |
| <b>Name</b>   | <b>Execution Date</b>             |
| PIERROT HARVIE  | 02/22/2016                        |
| SEAN D. MONAHAN   | 02/22/2016                        |
| MARY G. PRIEVE  | 02/22/2016                        |
| MICHAEL E HOUSTON JR.   | 02/22/2016                        |
| <b>RECEIVING PARTY DATA</b>   |                                   |
| <b>Name:</b>  | PHASERX, INC.                     |
| <b>Street Address:</b>  | 410 W. HARRISON STREET, SUITE 300 |
| <b>City:</b>  | SEATTLE                           |
| <b>State/Country:</b>   | WASHINGTON                        |
| <b>Postal Code:</b>   | 98119                             |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                   |
| <b>Property Type</b>  | <b>Number</b>                     |
| PCT Number:   | IS2016014232                      |
| <b>CORRESPONDENCE DATA</b>  |                                   |
| <b>Fax Number:</b>  | (314)259-2020                     |
| <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>   | 314-259-2000                      |
| <b>Email:</b>   | susan.murphy@bryancave.com        |
| <b>Correspondent Name:</b>  | BRYAN CAVE LLP                    |
| <b>Address Line 1:</b>  | 211 NORTH BROADWAY, SUITE 3600    |
| <b>Address Line 4:</b>  | ST. LOUIS, MISSOURI 63102         |
| <b>ATTORNEY DOCKET NUMBER:</b>  | PRX.3900.PCT1 (0389801)           |
| <b>NAME OF SUBMITTER:</b>   | KEVIN NOSON                       |
| <b>SIGNATURE:</b>   | /Kevin Noson/                     |
| <b>DATE SIGNED:</b>   | 02/29/2016                        |
| <b>Total Attachments: 4</b>   |                                   |
| source=3900.PCT1 Executed Assignment#page1.tif  |                                   |
| source=3900.PCT1 Executed Assignment#page2.tif  |                                   |
| source=3900.PCT1 Executed Assignment#page3.tif  |                                   |

ASSIGNMENT

**WHEREAS, I/WE**, Mary G. PRIEVE, hereinafter referred to as "Assignor," am a joint inventor with Michael E. HOUSTON, Jr., Pierrot HARVIE, and Sean D. MONAHAN, and we have invented an improvement in METHODS, COMPOSITIONS, AND SYSTEMS FOR DELIVERING THERAPEUTIC AND DIAGNOSTIC AGENTS INTO CELLS described in PCT international patent application assigned Serial No. PCT/US16/14232, filed January 21, 2016, and we authorize the filing of the patent application for the claimed invention;

**AND, WHEREAS**, PhaseRx, Inc., a Delaware corporation, with a principal place of business located at 410 W. Harrison Street, Suite 300, Seattle, WA 98119 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring certain rights thereunder;

**NOW, THEREFORE**, for good and valuable consideration, receipt of which is hereby acknowledged, I have agreed to and do hereby sell, assign, and transfer unto said ASSIGNEE the entire right, title, and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said invention, said application, any other applications (including provisional, non-provisional, divisional, continuing, or reissue applications) based in whole or in part on said application or in whole or in part on said invention, any United States or foreign applications based in whole or in part on any of the aforesaid applications or in whole or in part on said invention, and any and all patents (including extensions thereof) of any country which have been or may be granted on any of the aforesaid applications or on said invention or any part thereof;

**TO BE HELD AND ENJOYED** by said ASSIGNEE, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me had no sale and assignment of said interest been made;

**AND I/WE** hereby authorize and request the Commissioner of Patents of the United States of America to issue any and all United States patents which may be granted upon said United States applications or any of them, or upon said invention or any part thereof, to said ASSIGNEE;

**AND I/WE** hereby authorize and request the patent granting authority in any foreign jurisdiction to issue any and all patents which may be granted upon said application or any of them, or upon said invention or any part thereof, to said ASSIGNEE;

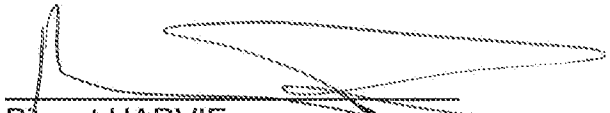
**AND I/WE** hereby agree for myself and for my heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, divisional, continuing, reissue, or other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully to secure to said ASSIGNEE its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them;

**AND I/WE** hereby covenant for myself and my legal representatives, and agree with said ASSIGNEE, its successors and assigns, that I have granted no right or license to make, use or sell said invention, to anyone except said ASSIGNEE, that prior to the execution of this deed my right, title, and interest in said invention had not been otherwise encumbered, and that I have not executed and will not execute any instrument in conflict herewith.

IN WITNESS WHEREOF, I have hereunto set my hand.

02-22-16

Date

  
Pierrot HARVIE

Witness Name: Amy H. Jans

Witness Name: Lisa Christoffen

Witness Signature: 

Witness Signature: 

IN WITNESS WHEREOF, I have hereunto set my hand.

2/22/2016


Date

  
Sean D. MONAHAN

Witness Name: Amy H. Jans

Witness Name: Lisa Christoffen

Witness Signature: 

Witness Signature: 

IN WITNESS WHEREOF, I have hereunto set my hand.

2/22/2016  
Date

Mary G. Prieve  
Mary G. PRIEVE

Witness Name: Amy H. Jors

Witness Name: Lisa Christofferson

Witness Signature: [Signature]

Witness Signature: [Signature]

IN WITNESS WHEREOF, I have hereunto set my hand.

2/22/2016  
Date

Michael E. Houston Jr.  
Michael E. HOUSTON, Jr.

Witness Name: Amy Jors

Witness Name: Lisa Christofferson

Witness Signature: [Signature]

Witness Signature: [Signature]