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PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | | | NEW ASSIGNMENT | | | | |
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| NATURE OF CONVEYANCE: | | | ASSIGNMENT | | | | |
| CONVEYING PARTY DA | ΑΤΑ | | | | | | |
| | | | Name | | | Execution Dat | |
| STEVEN B. KANNER | | | | | | 03/17/2015 | |
| DAVID L. LEWIS | | | | | | 03/17/2015 | |
| DARREN H. WAKEFIELD | | | | | | 03/17/2015 | |
| LAUREN ALMEIDA | | | | | | 03/17/2015 | |
| RECEIVING PARTY DA | ТА | | | | | | |
| Name: | ARROWHEAD MADISON INC. | | | | | | |
| Street Address: | 465 SCIENCE DRIVE | | | | | | |
| Internal Address: | SUITE C | | | | | | |
| City: | MADISON | | | | | | |
| State/Country: | WISCONSIN | | | | | | |
| Postal Code: | 53711 | | | | | | |
| PROPERTY NUMBERS Total: 1 Property Type | | | Number | | | | |
| Application Number: 15 | | 15071 | 1634 | | | | |
| CORRESPONDENCE D | ΔΤΔ | | | | | | |
| Fax Number: | ,,,,, | | | | | | |
| | | | e-mail address first; if that is at is unsuccessful, it will be | | | | |
| Phone: 608-3 | | | 16-3896 | | | | |
| • | | • | ts@arrowheadpharma.com | | | | |
| | | | EKENA | | | | |
| | | | | | | | |
| | | SUITE | | | | | |
| Address Line 4: | | MADI | SON, WISCONSIN 53711 | | | | |
| ATTORNEY DOCKET NUMBER: | | | 30626-US1 | | | | |
| NAME OF SUBMITTER: | | | KIRK EKENA | | | | |
| SIGNATURE: | | | /Kirk Ekena/ | | | | |
| DATE SIGNED: | | | 06/27/2016 | | | | |
| | | | | | | | |

Total Attachments: 2

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> PATENT REEL: 039011 FRAME: 0681

<u>ASSIGNMENT</u>

WHEREAS, WE, the undersigned inventors (Assignors) have invented certain new and useful improvements which are described and claimed in application for United States Patent and identified as U.S. Provisional Application No. **62/134,186** (Docket No. 30626) filed on 17 March 2015, entitled

Compositions and Methods for Inhibiting Gene Expression of Factor XII

WHEREAS, ARROWHEAD MADISON INC., a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having its principal place of business at Madison, Wisconsin, is desirous of acquiring the entire interest in and to said invention, said application and the Patent to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, we have sold, assigned, and set over, and by these presents do hereby sell, assign, and set over unto the said ARROWHEAD MADISON INC. (Assignee), and said Assignee's legal representatives, successors, the entire right, title and interest; for the whole world, in and to said invention and said application, as well as any subsequent application which claims priority based upon the filing date of said application identified as U.S. Provisional Application No. **62/134,186** and the patents, both domestic and foreign, that may or shall result therefrom including the right to claim in respect of any subsequent United States and foreign patent applications and patents, the priority date of said application under any United States statute and international convention or treaty; and we do hereby authorize and request the issuance of said patents, domestic and foreign, conformably to the terms of this Agreement.

UPON SAID CONSIDERATION, we do hereby covenant and agree with the said Assignee that we will not execute any writing or do any act whatsoever conflicting with these presents, and that we will at any time upon request, without further or additional consideration, but at the expense of the said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance obtaining provisional, original, continuation, application for and making in continuation-in-part, divisional, reissued, re-examined or extended Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, including but not limited to, giving testimony in any proceedings or transactions involving such applications or patents, and executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind and inure to the benefit of the assigns and legal representatives of all parties hereto.

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PATENT REEL: 039011 FRAME: 0682

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this 17^{th} day of <u>March 2015</u>.

Steven B. Kanner 360 W. Washington Ave. Unit 103, Madison, WI 53703, US

David L. Levis 505 Maple Avenue, Madison, WI 53704, US

An Darren H. Wakefield

3168 Stoneman Drive, Fitchburg, WI 53711, US

Lauren Almeida 490 Togstad Glenn, Madison, WI 53711, US

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ACKNOWLEDGMENT

State of Wisconsin County of Dane

On <u>17 March 2015</u>, before me personally appeared, <u>Steven B. Kanner, David L. Lewis</u>, <u>Darren H. Wakefield</u>, and <u>Lauren Almeida</u>, to me known to be the person described in the foregoing Assignment, who acknowledged that he/she executed the foregoing Assignment of his/her own free will for the purposes therein set forth.

Kirk Ekena, Notary Public My commission expires 12 March 2017

PATENT REEL: 039011 FRAME: 0683

RECORDED: 06/27/2016