

PATENT ASSIGNMENT COVER SHEET

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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>BOB D. BROWN</td> <td>11/12/2013</td> </tr> <tr> <td>HENRYK T. DUDEK</td> <td>11/12/2013</td> </tr> </tbody> </table>		Name	Execution Date	BOB D. BROWN	11/12/2013	HENRYK T. DUDEK	11/12/2013
Name	Execution Date						
BOB D. BROWN	11/12/2013						
HENRYK T. DUDEK	11/12/2013						
RECEIVING PARTY DATA							
Name:	DICERNA PHARMACEUTICALS, INC.						
Street Address:	480 ARSENAL STREET						
Internal Address:	SUITE 120						
City:	WATERTOWN						
State/Country:	MASSACHUSETTS						
Postal Code:	02472						
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>14025009</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14025009		
Property Type	Number						
Application Number:	14025009						
CORRESPONDENCE DATA							
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>							
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ATTORNEY DOCKET NUMBER:	91433(301937)						
NAME OF SUBMITTER:	CHRISTOPHER R. COWLES						
Signature:	/Christopher R. Cowles/						
Date:	11/13/2013						

CH \$40.00 14025009

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Total Attachments: 5

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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made this 12 day of November, 2013 by Bob D. Brown and Henryk T. Dudek (hereinafter referred to as Assignors), residing at 54 Leprechaun Drive, Millington, New Jersey 07946; and 105 Overbrook Drive, Wellesley, Massachusetts 02482, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in METHODS AND COMPOSITIONS FOR THE SPECIFIC INHIBITION OF MYC BY DOUBLE-STRANDED RNA, set forth in a Patent application for Letters Patent of the United States, already filed on September 12, 2013 as U.S. Application No. 14/025,009; and

WHEREAS, Dicerna Pharmaceuticals, Inc., a corporation organized under and pursuant to the laws of Massachusetts having its principal place of business at 480 Arsenal Street, Suite 120, Watertown, Massachusetts 02472 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns that: Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise; that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; and, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

EDWARDS WILDMAN PALMER LLP

All practitioners at Customer Number 21874

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Bob D. Brown 11/12/2013
Bob D. Brown

Date: 11/12/13

United States of America)
State of MA) ss.:
County of Middlesex)

On this 12 day of November, 2013, before me personally came Bob D. Brown, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Jayne D'Annely
Notary Public

Expires 2/28/19

Henryk T. Dudek
Henryk T. Dudek

Date: 11/12/13

United States of America)
State of MA) ss.:
County of Middlesex)

On this 12 day of November, 2013, before me personally came Henryk T. Dudek, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Jayne Dannelly
Notary Public

EXPIRES 2/28/19