

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT3153285

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the RECEIVING PARTY NAME FROM MODERNA THERAPEUTICS TO MODERNA THERAPEUTICS, INC. previously recorded on Reel 029678 Frame 0524. Assignor(s) hereby confirms the RECEIVING PARTY NAME ON THE ATTACHED PATENT ASSIGNMENT COVER SHEET IS INCOMPLETE.

**CONVEYING PARTY DATA**

Name	Execution Date
SUHAIB SIDDIQI	01/10/2013

**RECEIVING PARTY DATA**

<b>Name:</b>	MODERNA THERAPEUTICS, INC.
<b>Street Address:</b>	200 TECHNOLOGY SQUARE
<b>City:</b>	CAMBRIDGE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02139

**PROPERTY NUMBERS Total: 5**

Property Type	Number
Application Number:	61404413
Application Number:	13251840
Application Number:	13481127
Application Number:	13739212
PCT Number:	US2011054617

**CORRESPONDENCE DATA**

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<b>ATTORNEY DOCKET NUMBER:</b>	2030.1002
<b>NAME OF SUBMITTER:</b>	LORI A. CZERWONKA
<b>SIGNATURE:</b>	/Lori A. Czerwonka/
<b>DATE SIGNED:</b>	12/18/2014

**Total Attachments: 4**

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**PATENT ASSIGNMENT**

Electronic Version v1.1  
Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Suhaib Siddiqi	01/10/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	moderNA Therapeutics
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<b>Internal Address:</b>	1st Floor
<b>City:</b>	Cambridge
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02142
<b>PROPERTY NUMBERS Total: 5</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	61404413
<b>Application Number:</b>	13251840
<b>Application Number:</b>	13481127
<b>Application Number:</b>	13739212

<b>PCT Number:</b>	US2011054617
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<b>Correspondent Name:</b>	DTWARD, PC
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<b>ATTORNEY DOCKET NUMBER:</b>	2030.1002
<b>NAME OF SUBMITTER:</b>	Kristin Corbett
<b>Signature:</b>	/Kristin Corbett/
<b>Date:</b>	01/23/2013
<b>Total Attachments: 2</b> source=AssignmentSUhaib#page1.tif source=AssignmentSUhaib#page2.tif	
<b>RECEIPT INFORMATION</b>	
<b>EPAS ID:</b>	PAT2244282
<b>Receipt Date:</b>	01/23/2013
<b>Fee Amount:</b>	\$200

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### ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to modERNA Therapeutics, Inc.,<sup>(15) 12/18/14</sup> having a place of business at 161 First Street, 1<sup>st</sup> Floor, Cambridge, MA 02142, ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following provisional applications filed under 35 U.S.C. § 111(b), non-provisional applications filed under 35 U.S.C. § 111(a), international applications filed according to the Patent Cooperation Treaty (PCT), or U.S. national phase applications filed under 35 U.S.C. § 371 ("APPLICATION"):

- Application No. 61/404,413, entitled "ENGINEERED NUCLEIC ACIDS AND METHODS OF USE THEREOF", filed October 1, 2010.
- Application No. 13/251,840, entitled "MODIFIED NUCLEOSIDES, NUCLEOTIDES, AND NUCLEIC ACIDS, AND USES THEREOF", filed October 3, 2011.
- Application No. PCT/US2011/054617, entitled "MODIFIED NUCLEOSIDES, NUCLEOTIDES, AND NUCLEIC ACIDS, AND USES THEREOF", filed October 3, 2011.
- Application No. 13/481,127, entitled "MODIFIED NUCLEOSIDES, NUCLEOTIDES, AND NUCLEIC ACIDS, AND USES THEREOF", filed May 25, 2012.
- Application No. 13/739,212, entitled "MODIFIED NUCLEOSIDES, NUCLEOTIDES, AND NUCLEIC ACIDS, AND USES THEREOF", filed January 11, 2013.

2. The entire worldwide right, title, and interest in and to:  
(a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully

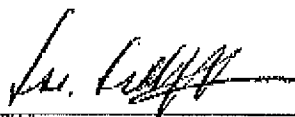
secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that 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.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Date 01/10/2013

Signature   
Name Suhaib Siddiqi