

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4921244

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	ANDREW W. FRALEY	08/28/2015
RECEIVING PARTY DATA		
Name:	MODERNA THERAPEUTICS, INC.	
Street Address:	200 TECHNOLOGY SQUARE	
City:	CAMBRIDGE	
State/Country:	MASSACHUSETTS	
Postal Code:	02139	
PROPERTY NUMBERS Total: 2		
Property Type	Number	
Application Number:	15319840	
Application Number:	15240656	
CORRESPONDENCE DATA		
Fax Number:	(617)428-7045	
<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>		
Phone:	(617) 428-0200	
Email:	patentadministrator@clarkelbing.com	
Correspondent Name:	CLARK & ELBING LLP	
Address Line 1:	101 FEDERAL STREET	
Address Line 2:	15TH FLOOR	
Address Line 4:	BOSTON, MASSACHUSETTS 02110	
ATTORNEY DOCKET NUMBER:	50858-0130011, -023003	
NAME OF SUBMITTER:	MICHAEL J. BELLIVEAU, PH.D.	
SIGNATURE:	/Michael J. Belliveau, Ph.D./	
DATE SIGNED:	04/18/2018	
Total Attachments: 2		
source=50858-023WO3 - Executed Assignment (Fraley)#page1.tif		
source=50858-023WO3 - Executed Assignment (Fraley)#page2.tif		

CONFIRMATORY ASSIGNMENT

I,

Full Name of Assignor	City	State (and Country if not USA)
Andrew W. Fraley	Arlington	Massachusetts

acknowledge the assignment, as of the filing dates, to:

Full Name of Assignee	State of Incorporation	Business Address
Moderna Therapeutics, Inc.	Delaware	200 Technology Square Cambridge, MA 02139

and to its successors and assigns (collectively hereinafter called the "ASSIGNEE"), for good and valuable consideration paid to ASSIGNOR by ASSIGNEE, the receipt and sufficiency of which is hereby acknowledged, the entire right, title, and interest in, to, and deriving from the invention(s) disclosed in the patent application(s) set forth below throughout the world by operation of law, contract, or otherwise, and any Letters Patent which may hereafter be granted on the same including any application claiming priority, divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, reexaminations, prolongations or extensions thereof.

Title of Application	Filing Date	Serial Number	Attorney Docket No.
MODIFIED NUCLEIC ACID MOLECULES AND USES THEREOF	December 13, 2013	PCT/US2013/075177	50858-013WO6
POLYNUCLEOTIDE MOLECULES AND USES THEREOF	March 21, 2014	61/968,735	50858-021001
ALTERNATIVE NUCLEIC ACID MOLECULES AND USES THEREOF	December 13, 2013	14173185.1	50858-022EP1
ALTERNATIVE NUCLEIC ACID MOLECULES AND USES THEREOF	June 19, 2015	PCT/US2015/036759	50858-022WO2
ALTERNATIVE NUCLEIC ACID MOLECULES AND USES THEREOF	June 19, 2015	PCT/US2015/036771	50858-023WO3
ALTERNATIVE NUCLEIC ACID MOLECULES AND USES THEREOF	June 19, 2015	PCT/US2015/036773	50858-056WO2

Furthermore, we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment includes said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations, and like rights of exclusion, and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation, to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment. This assignment also includes the right to sue for past acts of infringement, whether based on any patents listed herein, patents issuing from applications listed herein, or provisional rights from any patent applications listed herein.

IN WITNESS WHEREOF, I hereto set my hand and seal at
this 28th day of August, 2015.

ROCKLAND MA

Andrew W. Fraley

L.S.

WITNESSED BY

PRINTED NAME