

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6312693

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	JONATHAN S. GOOTENBERG	06/01/2016
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	PRESIDENT AND FELLOWS OF HARVARD COLLEGE	
<b>Street Address:</b>	17 QUINCY STREET	
<b>City:</b>	CAMBRIDGE	
<b>State/Country:</b>	MASSACHUSETTS	
<b>Postal Code:</b>	02138	
<b>PROPERTY NUMBERS Total: 2</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	16048038	
<b>Application Number:</b>	16400026	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(202)672-5399	
<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>	2123383438	
<b>Email:</b>	NBENOWITZ@FOLEY.COM, IPDOCKETING@FOLEY.COM	
<b>Correspondent Name:</b>	NEIL H. BENOWITZ	
<b>Address Line 1:</b>	3000 K STREET N.W.	
<b>Address Line 2:</b>	FOLEY & LARDNER LLP	
<b>Address Line 4:</b>	WASHINGTON, D.C. 20007	
<b>ATTORNEY DOCKET NUMBER:</b>	114203-1046, 5771	
<b>NAME OF SUBMITTER:</b>	NEIL H. BENOWITZ	
<b>SIGNATURE:</b>	/Neil H. Benowitz/	
<b>DATE SIGNED:</b>	09/23/2020	
<b>Total Attachments: 3</b>		
source=114203-5771-Gootenberg-Assignment-Harvard#page1.tif		
source=114203-5771-Gootenberg-Assignment-Harvard#page2.tif		
source=114203-5771-Gootenberg-Assignment-Harvard#page3.tif		

ASSIGNMENT

I, Jonathan S. Gootenberg, residing at: 100 Memorial Drive, Apt. 15-14A, Cambridge, MA 02142, USA, being the inventor(s) of certain improvements in the international application entitled: **NOVEL CRISPR ENZYMES AND SYSTEMS** for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby assign unto **PRESIDENT AND FELLOWS OF HARVARD COLLEGE** having a place of business at 17 Quincy Street, Cambridge, MA 02138, USA, its successors and assigns (1) the entire right, title and interest in all countries throughout the world in and to any and all of my inventions and discoveries in my United States Provisional Application Nos. 62/181,739 filed June 18, 2015, 62/193,507, filed July 16, 2015, 62/201,542, filed August 5, 2015, 62/205,733, filed August 16, 2015, 62/232,067, filed September 24, 2015 and United States Application No. 14/975,085 filed December 18, 2015 and a PCT International Application filed under the Patent Cooperation Treaty in the PCT United States Receiving Office (RO/US) on \_\_\_\_\_ identified as International Application No. \_\_\_\_\_, and designating all PCT member countries/states, as well as in any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefore; (2) the full and complete right to file patent applications in the name of **PRESIDENT AND FELLOWS OF HARVARD COLLEGE**, or their designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right title and interest in and to any Letters Patent which may issue on the aforesaid inventions, discoveries and applications in any country of the world and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in and to all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the following application(s):

United States Provisional Application No. 62/181,739 filed June 18, 2015;

United States Provisional Application No. 62/193,507 filed July 16, 2015;

United States Provisional Application No. 62/201,542 filed August 5, 2015;

United States Provisional Application No. 62/205,733 filed August 16, 2015; and

United States Provisional Application No. 62/232,067 filed September 24, 2015;

United States Application No. 14/975,085 filed December 18, 2015 and all rights of

NEWYORK/421482.1

priority in any country of the world deriving from the above-identified International Application.

I hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in any country throughout the world to **PRESIDENT AND FELLOWS OF HARVARD COLLEGE** as the assignee of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

I agree, at any time, upon the request of **PRESIDENT AND FELLOWS OF HARVARD COLLEGE** to execute and to deliver to **PRESIDENT AND FELLOWS OF HARVARD COLLEGE** any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

I further agree, at any time, upon request of **PRESIDENT AND FELLOWS OF HARVARD COLLEGE**, to execute and to deliver to **PRESIDENT AND FELLOWS OF HARVARD COLLEGE**, such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do what is necessary to give full effect to and to perfect any and all rights of **PRESIDENT AND FELLOWS OF HARVARD COLLEGE**, under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

In testimony of which I have hereupon affixed my signature it is my intention that this Assignment instrument be effective, and all rights transferred herein shall be considered to have vested in **PRESIDENT AND FELLOWS OF HARVARD COLLEGE**, as from the June 18, 2015 filing date of the first filed United States Provisional Application No. 62/181,739 from which priority is hereby claimed.

I, Jonathan S. Gootenberg, hereby authorize the attorneys of record, Vedder Price P.C., to insert the PCT Application Serial No. for the instant application entitle **NOVEL CRISPR ENZYMES**

AND SYSTEMS, even if the PCT Application Serial No. and filing date are after the execution date of this document as this document is to be effective as to such a PCT Application.

6/11/16  
Date

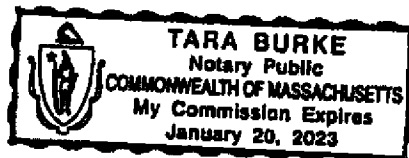
[Signature]  
Jonathan S. Gootenberg

Commonwealth of Massachusetts )

COUNTY OF Middlesex ) SS

I, Tara Burke, a Notary Public in and for the county and Commonwealth aforesaid, do hereby certify that Jonathan S. Gootenberg, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 1 day of June, 2016.



[Signature]  
Notary Public  
My Commission Expires:  
1/20/23

SEAL