505063715 08/27/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT		
CONVEYING PARTY	/ DATA			
		Name	Execution Date	
JONATHAN GOOTEI	NBERG		08/15/2018	
RECEIVING PARTY DATA Name: PRESIDENT AND FELLOWS OF HARVARD COLLEGE				
Street Address:		17 QUINCY STREET		
City:		CAMBRIDGE		
State/Country:		MASSACHUSETTS		
Postal Code:		02138		
	02100			
PROPERTY NUMBE	RS Total: 1			
Property Type		Number		
Application Number: 1		5844530		
CORRESPONDENCI	E DATA			
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ATTORNEY DOCKET NUMBER:		BROD-3480US2		
NAME OF SUBMITTER:		CHENAE M. BYRD	CHENAE M. BYRD	
SIGNATURE:		/CHENAE M. BYRD/	/CHENAE M. BYRD/	
DATE SIGNED:		08/27/2018	08/27/2018	
Total Attachments: 2		I		
ource=BI_2015_092_	SIGNED_AS	SIGNMENT_Gootenberg_BROD_34	480US2pdf#page1.tif	
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WHEREAS, I, JONATHAN GOOTENBERG, having a correspondence address of c/o 17 Quincy Street, Cambridge, Massachusetts 02138, have invented with others certain inventions and improvements disclosed in a patent application entitled "NOVEL CRISPR ENZYMES AND SYSTEMS, filed with the United States Patent and Trademark Office on December 16, 2017 and assigned U.S. Patent Application No. 15/844,530; and

WHEREAS, **PRESIDENT AND FELLOWS OF HARVARD COLLEGE**, having a principal place of business at 17 Quincy Street, Cambridge, Massachusetts 02138, is desirous of acquiring an interest in the same; and

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which I hereby acknowledge, I, JONATHAN GOOTENBERG, by these presents, do sell, assign, and transfer unto said Assignee, PRESIDENT AND FELLOWS OF HARVARD COLLEGE, my full, exclusive, and entire right, title, and interest in and to said application, in and to any divisions, continuations, reexaminations, and reissues thereof, and in and to all inventions and improvements disclosed and described in said applications, preparatory to obtaining Letters Patent of the United States therefor; and I hereby request the Director of the U.S. Patent and Trademark Office to issue any and all Letters Patent of the United States resulting from said applications, or from a division, continuation, reexamination, or reissue thereof, to PRESIDENT AND FELLOWS OF HARVARD COLLEGE, for its interest and for the use and benefit of PRESIDENT AND FELLOWS OF HARVARD COLLEGE, as assignee, and its assigns and legal representatives;

For the same consideration, I, by these presents, do sell, assign, and transfer to **PRESIDENT AND FELLOWS OF HARVARD COLLEGE**, my full, exclusive, and entire right, title, and interest in and to any foreign application or applications corresponding to said application, in whole or in part, in countries other than the United States, in and to any Letters Patent and similar protective rights granted on said foreign applications, and in and to the right to claim any applicable priority rights arising from or required for said foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations; said foreign applications to be filed and issued in the name of **PRESIDENT AND FELLOWS OF HARVARD COLLEGE**, or its designees insofar as permitted by applicable law;

AND, for the same consideration, I agree to sign all lawful papers, execute all division, continuing, reexamination, reissue, and other applications, make all assignments and rightful oaths, and generally do everything possible to aid **PRESIDENT AND FELLOWS OF HARVARD COLLEGE**, its successors, assigns, and nominees to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

Page 1 of 2

Assignment U.S. Non-Provisional Application No. 15/844,530 Gootenberg

In testimony whereof, I hereunto set my hand and seal on the date indicated below.

JONATHAN GOOTENBERG

COMMONWEALTH OF MASSACHUSETTS COUNTY OF MIDDLESEX

Before me, a Notary Public in and for the aforementioned state, on this $\underline{154}$ day of $\underline{124}$, 20/8, personally appeared JONATHAN GOOTENBERG, who, being duly sworn, signed and acknowledged the foregoing Assignment.

indina M. Convito

My Commission Expires:



[END OF SIGNATURE PAGE]

Page 2 of 2

PATENT REEL: 046705 FRAME: 0586

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RECORDED: 08/27/2018