504779300 02/15/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
IAN SLAYMAKER	02/01/2018

RECEIVING PARTY DATA

Name:	THE BROAD INSTITUTE, INC.
Street Address:	415 MAIN STREET
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02142

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15844528

CORRESPONDENCE DATA

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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.

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Email: ipdocketny@vedderprice.com

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ATTORNEY DOCKET NUMBER:	50141.05.2017
NAME OF SUBMITTER:	CHRISTINA DIBENEDETTO
SIGNATURE:	/Christina DiBenedetto/
DATE SIGNED:	02/15/2018

Total Attachments: 2

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PATENT 504779300 REEL: 044940 FRAME: 0251

Vedder Price P.C.

Application No.: 15/844,528 Filing Date: 12/16/2017

File No.: 50141.05.2017-BI-2015/052.US1

ASSIGNMENT

I, Ian Slaymaker, have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled: CRISPR ENZYME MUTATIONS REDUCING OFF-TARGET EFFECTS and THE BROAD INSTITUTE, INC., whose address is 415 Main Street, Cambridge, MA 02142, together with its successors and assigns is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits and privileges hereinafter recited, and of confirming the same or any part thereof heretofore acquired by Assignee.

Now, therefore, for valuable consideration furnished by Assignee to me, receipt and sufficiency of which I hereby acknowledge, I hereby, without reservation:

Assign and convey to and confirm in Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or discoveries or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;

Authorize Assignee to file and prosecute patent applications in any or all countries on any or all of said inventions and discoveries in my name or names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

Authorize and request the Commissioner of Patents of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

Warrant that I have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same to Assignee without encumbrance;

Bind my heirs and legal representatives, as well as myself to do, upon Assignee's request and at its expense, but without additional consideration to me, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me or my heirs or representatives if this assignment had not been made; and

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particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs or legal representatives and which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

In testimony of which I have affixed my signature.
2/1/18
Date Ian Slaymaker
Commonwealth of Massachusetts COUNTY OF HIGHERX SS I, Commonwealth aforesaid, do hereby certify that Ian Slaymaker, 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
SEAL
ACCEPTANCE OF ASSIGNMENT 1, Chasha Day on behalf of Assignee, The Broad Institute, Inc., accept the assignment of Ian Slaymaker as an inventor on the above-referenced application.
<u>2-/4-23/8</u>
Date Signature
Print Name
Title

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RECORDED: 02/15/2018