

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PATRICK HSU	08/11/2014
RECEIVING PARTY DATA	
Name:	PRESIDENT AND FELLOWS OF HARVARD COLLEGE
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16844548
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NAME OF SUBMITTER:	NEIL H. BENOWITZ
SIGNATURE:	/Neil H. Benowitz/
DATE SIGNED:	01/25/2023
Total Attachments: 2	
source=114203-5838 Assignment HSU to Harvard - all prov#page1.tif	
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ASSIGNMENT

I, Patrick Hsu, residing at: 37 Kirkland Street, Apt. B1, Cambridge, MA 02138, USA; being the inventor(s) of certain improvements in the international application entitled: **OPTIMIZED CRISPR-CAS DOUBLE NICKASE SYSTEMS, METHODS AND COMPOSITIONS FOR SEQUENCE MANIPULATION** 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 61/836,123, filed June 17, 2013, 61/847,537, filed July 17, 2013, 61/862,355, filed August 5, 2013, 61/871,301, filed August 28, 2013, 61/915, 383, filed December 12, 2013, PCT/US2013/074667, filed December 12, 2013 and a PCT International Application filed under the Patent Cooperation Treaty in the PCT United States Receiving Office (ROIUS) on June 10, 2014, identified as International Application No. PCT/US2014/041803, 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. 61/836,123, filed June 17, 2013

United States Provisional Application No. 61/847,537, filed July 17, 2013;

United States Provisional Application No. 61/862,355, filed August 5, 2013;

United States Provisional Application No. 61/871,301, filed August 28, 2013;

United States Provisional Application No. 61/915, 383, filed December 12, 2013; and

United States International Application No. PCT/US2013/074667, filed December 12, 2013

and all rights of priority in any country of the world deriving from the above-identified

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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.

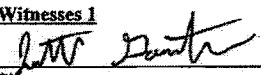
I agree, at any time, upon the request of **PRESIDENT AND FELLOWS OF HARVARD COLLEGE** to execute and to deliver to **PRESIDENT AND FELLOWS OF HARVARD COLLEGE** any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents 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.

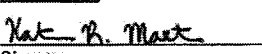
I further agree, at any time, upon request of **PRESIDENT AND FELLOWS OF HARVARD COLLEGE**, to execute and to deliver to **PRESIDENT AND FELLOWS OF HARVARD COLLEGE**, such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications 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 17, 2013, the filing date of the first filed United States Provisional Application No. 61/836,123, from which priority is hereby claimed.

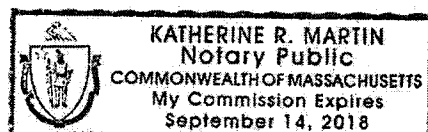
2014.08.17
Date


Patrick Hsu

Witnesses 1

Signature
Jonathan Gootenberg
Witness 1: Print name here

Witnesses 2

Signature
Katherine R. Martin
Witness 2: Print name here

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