505203808 11/26/2018

PATENT ASSIGNMENT COVER SHEET

Stylesheet Version v1.2

Electronic Version v1.1 EPAS ID: PAT5250576

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the NAME OF ASSIGNEE previously recorded on Reel 042345 Frame 0074. Assignor(s) hereby confirms the ASSIGNMENT.

CONVEYING PARTY DATA

Name	Execution Date
ERIC LANDER	06/06/2016

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:	15482603

CORRESPONDENCE DATA

Fax Number: (240)359-4879

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.

Phone: 9122574864

Email: BROD.Assignments@jmi-iplaw.com

F. BRENT NIX, ESQ. **Correspondent Name:**

Address Line 1: JOHNSON, MARCOU & ISAACS, LLC

Address Line 2: P.O. BOX 691

Address Line 4: HOSCHTON, GEORGIA 30548

ATTORNEY DOCKET NUMBER:	BROD-3480US1
NAME OF SUBMITTER:	SUSAN FRATTURA
SIGNATURE:	/Susan Frattura/
DATE SIGNED:	11/26/2018

Total Attachments: 3

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PATENT REEL: 048156 FRAME: 0139 505203808

504338621 04/26/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4385309

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ERIC LANDER	06/06/2016

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:	15482603

CORRESPONDENCE DATA

Fax Number: (212)407-7799

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.

Phone: 2124077700

Email: ipdocketny@vedderprice.com

Correspondent Name: THOMAS J. KOWALSKI

Address Line 1: 1633 BROADWAY
Address Line 2: VEDDER PRICE P.C.

Address Line 4: NEW YORK, NEW YORK 10019

ATTORNEY DOCKET NUMBER:	47627.04.2131
NAME OF SUBMITTER:	JOSHUA HAMLET
SIGNATURE:	/Joshua Hamlet/
DATE SIGNED:	04/26/2017

Total Attachments: 2

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PATENT 504338621 REEL: 042356 FRAME: 0074

Paterni **47627.99.2**131 **/ B3-2**01\$/092

ASSIGNMENT

having a correspondence address of c/o 415 Main Street, Cambridge, MA 02142 the inventor(s) of certain improvements in the international application emitted: NOVEL CRIMIN ENZYMES AND SYSTEMS for good and velocite consideration, the receipt and sufficiency of which is hereby acknowledged, knowley assign unto TERR BROAD INSTITUTE--EVC. having a place of business at 415 Main Street, Cambridge, MA 02142, USA, its successors and assigns (1) the entire right, this 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 No. 62/320,231 filed April 8, 2016 and a PCT International Application filed under the Petent Cooperation Treaty in the PCT Whited States Receiving Office (ROFUS) on June 17, 2016 identified as interesting No. PCT/US2016/038258 and designating all PCT member countries/states, as well as in any renewels, revivals, releases, recommissions, extensions, continuations and divisions thereof, and any extensions applications therefore; (2) the full and complete right to file patent applications in the name of THE-BROAD-INSTITUTE PNCs, or their designaris election, on the affective inventions, discoveries and applications in aff countries of the world; (3) the entire right title and interest in and to any Letters Patent which may keep on the aforestid hyperitess, discoveries and applications in any country of the world and any summain, revivals, reigness, recraminations and outposions thereof, and any patents of explanation, 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 unlesity in any country of the world, in end to the following application(s):

United States Provisional Application No. 62/328.231 filed April 8, 2016, and all rights of priority in any country of the world deriving these the above-identified international Application.

I hereby anthorize and request the competent authorities to grant and to issue any and 🛍 such Letters Petent in any country throughout the world to THE BROAD INSTITUTE INC. as the assignee of the entire right, title and interest themen, as fully and entirely as the same would have been held and enjoyed by me had this emigratest, sale and transfer not been made.

I arrow, at any time, upon the request of THE-BROAD INSTITUTE INC. to execute and to deliver to THE-BROAD INSTITUTE DIG. any additional applications for patents for said inventions and discoveries, or say year or pure thereof, and city applications for patents of

THE BROAD INSTITUTE, INC.

NEW YORK OCCUPILL

8.22.18

THE BROAD INSTITUTE,

THE BROAD INSTITUTE.

9.23,5B

INSTITUTÈ INC.

THE BROAD

PATENT REEL: 042345 FRAME: 0075

> PATENT REEL: 048156 FRAME: 0141

BROAD INSTITUTE.

8.19.18

INC.

confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, necessals, revivals, missues, recuminations and extensions thereof.

THE BROAD INSTITUTE, INC.

I further agree, at any time, upon request of THE BROAD INSTITUTE-INC., to execute and to deliver to THE BROAD INSTITUTE INC., 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 THE BROAD INSTITUTE INC., under the INST Assignment, including the execution, delivery and procurement of any and all further documents INC. evidencing this antignment, insurfer and sale as may be necessary or desirable.

And BROAD INSTITUTE, INC.

9.77.18

8,27.18

In testimony of which I have hereupon affixed my signature it is my intention that this Assignment instrument be effective, and all rights transferred iterain shall be considered to have vested in THE BROAD INSTITUTE INC. as from the April 8, 2018, thing case of the first filed United States Provisional Application No. 62/320231 from which priority is hereby claimed. THE BROAD INSTITUTE, INC.

<u>6/6/16</u>

Commonwealth of Massachusetts)

38

COUNTY OF Middle Sex

I. <u>Katherive E. Bower</u>, a Notary Public in and for the county and Commanuvealth situressid, do hereby certify that <u>Rig Lander</u>, 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 schnowledged that he signed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.



Notary Public

My Commission Expires: 7 · 14 · 17

RECORDED: 04/26/2017

RECORDED: 11/26/2018

PATENT REEL: 042345 FRAME: 0076

PATENT

REEL: 048156 FRAME: 0142