

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT7160655

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                              |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                                  |
| <b>CONVEYING PARTY DATA</b>   |   |
| <b>Name</b>   | <b>Execution Date</b>                       |
| JENNIFER A. DOUDNA  | 04/08/2021                                  |
| BASEM AL-SHAYEB   | 08/11/2021                                  |
| JILLIAN F. BANFIELD   | 03/25/2020                                  |
| PATRICK PAUSCH  | 07/27/2021                                  |
| <b>RECEIVING PARTY DATA</b>   |   |
| <b>Name:</b>  | THE REGENTS OF THE UNIVERSITY OF CALIFORNIA |
| <b>Street Address:</b>  | 1111 FRANKLIN STREET                        |
| <b>Internal Address:</b>  | 12TH FLOOR                                  |
| <b>City:</b>  | OAKLAND                                     |
| <b>State/Country:</b>   | CALIFORNIA                                  |
| <b>Postal Code:</b>   | 94607                                       |
| <b>PROPERTY NUMBERS Total: 1</b>  |   |
| <b>Property Type</b>  | <b>Number</b>                               |
| Application Number:   | 17403245                                    |
| <b>CORRESPONDENCE DATA</b>  |   |
| <b>Fax Number:</b>  | (650)327-3231                               |
| <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>   | 6503273400                                  |
| <b>Email:</b>   | lam@bozpat.com                              |
| <b>Correspondent Name:</b>  | BOZICEVIC, FIELD AND FRANCIS LLP            |
| <b>Address Line 1:</b>  | 201 REDWOOD SHORES PARKWAY                  |
| <b>Address Line 2:</b>  | SUITE 200                                   |
| <b>Address Line 4:</b>  | REDWOOD CITY, CALIFORNIA 94065              |
| <b>ATTORNEY DOCKET NUMBER:</b>  | BERK-403CON8                                |
| <b>NAME OF SUBMITTER:</b>   | PAULA A. BORDEN                             |
| <b>SIGNATURE:</b>   | /Paula A. Borden/                           |
| <b>DATE SIGNED:</b>   | 02/04/2022                                  |
| <b>Total Attachments: 5</b>   |   |

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source=BERK-403WO (BK-2019-102-5PCT) EXECUTED Assignment#page4.tif  
source=BERK-403WO (BK-2019-102-5PCT) EXECUTED Assignment#page5.tif

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S),

- |    |                            |    |                        |
|----|----------------------------|----|------------------------|
| 1. | <b>Jennifer A. Doudna</b>  | 2. | <b>Basem Al-Shayeb</b> |
| 3. | <b>Jillian F. Banfield</b> | 4. | <b>Patrick Pausch</b>  |

hereby sells, assigns and transfers to ASSIGNEE, **The Regents of the University of California**, a California Corporation, having its principal place of business at **1111 Franklin Street, 12<sup>th</sup> Floor, Oakland, California 94607**, and the successors, assigns and legal representatives of the ASSIGNEE all of its right, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled:

“CRISPR-CAS EFFECTOR POLYPEPTIDES AND METHODS OF USE THEREOF”

and which is found in

- |     |          |                             |                          |          |                      |
|-----|----------|-----------------------------|--------------------------|----------|----------------------|
| (a) | _____    | U.S. Application Serial No. | _____                    | filed on | _____                |
| (b) | <u>X</u> | PCT Patent Application No.  | <u>PCT/US2020/021213</u> | filed on | <u>March 5, 2020</u> |

and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 USC 111(a) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all rights under all International Conventions for the Protection of Industrial Property;

ASSIGNOR(S) hereby agrees that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

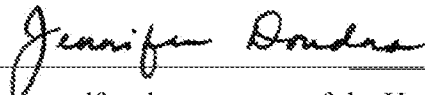
ASSIGNOR(S) further agrees that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, post grant review, inter partes review, litigation, or proceeding relating thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known.

AND the ASSIGNOR(S) requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE.

Executed this

Signature of Inventor(s)

8th day of April, 20 21

  
\_\_\_\_\_  
(For myself and as an agent of the Howard Hughes  
Medical Institute)  
**Jennifer A. Doudna**

\_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

\_\_\_\_\_  
**Basem Al-Shayeb**

\_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

\_\_\_\_\_  
**Jillian F. Banfield**

\_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

\_\_\_\_\_  
**Patrick Pausch**

Hereby accepted on behalf of the assignee:

/Paula A. Borden/

Patent Agent

August 11, 2021

Name

Title

Date

Executed this

Signature of Inventor(s)

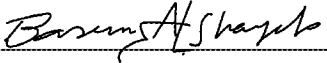
\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

\_\_\_\_\_

(For myself and as an agent of the Howard Hughes  
Medical Institute)

**Jennifer A. Doudna**

11 day of August, 20 21

  
\_\_\_\_\_

**Basem Al-Shayeb**

\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

\_\_\_\_\_

**Jillian F. Banfield**

\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

\_\_\_\_\_

**Patrick Pausch**

**Hereby accepted on behalf of the assignee:**

/Paula A. Borden/

Patent Agent

August 11, 2021

Name

Title

Date

Executed this

Signature of Inventor(s)

\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

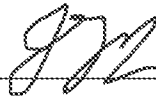
\_\_\_\_\_  
(For myself and as an agent of the Howard Hughes  
Medical Institute)

**Jennifer A. Doudna**

\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
**Basem Al-Shayeb**

25 day of March, 2020

  
\_\_\_\_\_  
**Jillian F. Banfield**

\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
**Patrick Pausch**

**Hereby accepted on behalf of the assignee:**

|                   |                |                 |
|-------------------|----------------|-----------------|
| /Paula A. Borden/ | Patent Agent   | August 11, 2021 |
| _____<br>Name     | _____<br>Title | _____<br>Date   |

Executed this

Signature of Inventor(s)

\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

\_\_\_\_\_

(For myself and as an agent of the Howard Hughes  
Medical Institute)

**Jennifer A. Doudna**

\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

\_\_\_\_\_

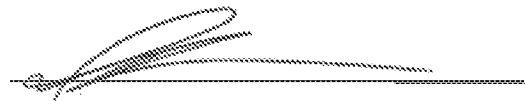
**Basem Al-Shayeb**

\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

\_\_\_\_\_

**Jillian F. Banfield**

27 day of July, 2021



**Patrick Pausch**

Hereby accepted on behalf of the assignee:

/Paula A. Borden/

Patent Agent

August 11, 2021

Name

Title

Date