504294713 03/28/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4341394

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
JENNIFER A. DOUDNA	01/31/2014
MARTIN JINEK	02/01/2014
LEI S. QI	11/08/2013
JAMES HARRISON DOUDNA CATE	11/11/2013
WENDELL A. LIM	11/08/2013

RECEIVING PARTY DATA

Name:	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
Street Address:	1111 FRANKLIN STREET
Internal Address:	12TH FLOOR
City:	OAKLAND
State/Country:	CALIFORNIA
Postal Code:	94607-5200

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15435233

CORRESPONDENCE DATA

Fax Number: (650)327-3231

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.

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 6503273400 Email: lam@bozpat.com

Correspondent Name: BOZICEVIC, FIELD & FRANCIS LLP Address Line 1: 201 REDWOOD SHORES PARKWAY

Address Line 2: SUITE 200

Address Line 4: REDWOOD CITY, CALIFORNIA 94065

ATTORNEY DOCKET NUMBER:	BERK-187CON10	
NAME OF SUBMITTER:	KYLE A. GURLEY	
SIGNATURE:	/Kyle A. Gurley, Reg. No. 71,101/	
DATE SIGNED:	03/28/2017	

PATENT 504294713 REEL: 041771 FRAME: 0058

Total Attachments: 5

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PATENT REEL: 041771 FRAME: 0059 Atty Docket No.: BERK-187 (UC Case No.: BK-2012-115-5)

ASSIGNMENT

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

- 1. Jennifer A. Doudna,
- 2. Martin Jinek
- 3. Lei S. Qi
- 4. James Harrison Doudna Cate
- 5. Wendell A. Lim

hereby sells, assigns and transfers to ASSIGNEE, The Regents of the University of California, a California Corporation, having its statewide administrative offices located 1111 Franklin Street, Twelfth Floor, Oakland, CA 94607-5200, 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:

are disclosed in the invention	•	reign countries in	and to, any and all impr	ovements which
"Methods and Compositions for	or RNA-Directed Target DNA Mo	odification and For R	NA-Directed Modulation of	of Transcription"
and which is found in				
(a) U.S. provisional	application filed herewith and	l listing the above	named persons as invent	tors
(b) U.S. patent applie	cation filed herewith and listi	ng the above name	d persons as inventors	
(c) X U.S. application s	serial no. <u>13/842,859</u>	, filed on	March 15, 2013	
(d) U.S. Patent No.:				
(e) PCT Patent Appl	lication No	, filed on		
and any legal equivalent there Patent to be obtained for said extension, conversion to 35 U Letters Patent and all rights un	d invention by the above appl USC 111(a) or substitute the	ication or any cor reof, and any reis	tinuation, division, cont sue, reexamination or ex	inuation-in-part. xtension of said
ASSIGNOR(S) hereby agrees into which would conflict with		ement or encumbr	ance has been or will be	made or entered
ASSIGNOR(S) further agrees documents relating to said inv ASSIGNOR and will testify a proceeding relating thereto an papers, instruments or affidavi and said Letters Patent and sethereof. An attorney of recoassignment the filing date and	vention and said Letters Paten as to the same in any interfer and will promptly execute and of its required to apply for, obtain aid equivalents thereof which and is authorized and requeste	t and legal equival rence, post grant r leliver to ASSIGN n, maintain, issue of may be necessar ed by the execution	ents as may be known a eview, inter partes revie EE or its legal representar enforce said application or desirable to carry on of this assignment to	and accessible to ew, litigation, or ative any and all n, said invention out the purposes
AND the <u>ASSIGNOR(S)</u> req United States and any reissue of	uests the Commissioner of P or extension thereof to the AS	atents and Traden SIGNEE, The Reg	arks to issue said Lette ents of the University of	rs Patent of the California.
Executed this		Signature of Ir		
31 day of Jan.	, 2014	Jenniter A. Dou	ife a. Doub idna	STORY THE PROPERTY OF THE PROP
day of	., 20	Martin Jinek		-
day of	., 20	Lei S. Oi		

Page 1 of 2

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Atty Docket No.: BERK-187 (UC Case No.: BK-2012-115-5)

ASSIGNMENT

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- 1. Jennifer A. Doudna,
- 2. Martin Jinek
- 3. Lei S. Qi

day of

- 4. James Harrison Doudna Cate
- 5. Wendell A. Lim

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"Methods and Compositions for RNA-Directed Target DNA Modification and For RNA-Directed Modulation of Transcription"

	Transcription"
and which is found in	
(a) U.S. provisional application filed herev	with and listing the above named persons as inventors
(b) U.S. patent application filed herewith a	and listing the above named persons as inventors
(c) X U.S. application serial no. <u>13/842,8</u>	59 , filed on <u>March 15, 2013</u>
(d) U.S. Patent No.:	, issued
(e) PCT Patent Application No	, filed on
Patent to be obtained for said invention by the abo	ry, including the right to claim priority and, in and to, all Letter we application or any continuation, division, continuation-in-particute thereof, and any reissue, reexamination or extension of said conventions for the Protection of Industrial Property;
ASSIGNOR(S) hereby agrees that no assignment, sa into which would conflict with this assignment;	ile, agreement or encumbrance has been or will be made or entered
documents relating to said invention and said Letter ASSIGNOR and will testify as to the same in any proceeding relating thereto and will promptly execu- papers, instruments or affidavits required to apply fo and said Letters Patent and said equivalents thereo	upon its request, be provided promptly with all pertinent facts and is Patent and legal equivalents as may be known and accessible to interference, post grant review, inter partes review, litigation, o the and deliver to ASSIGNEE or its legal representative any and all r, obtain, maintain, issue or enforce said application, said invention of which may be necessary or desirable to carry out the purpose requested by the execution of this assignment to insert into this application when officially known.
	er of Patents and Trademarks to issue said Letters Patent of the the ASSIGNEE, The Regents of the University of California.
Executed this	Signature of Inventor(s)
day of, 20	Jennifer A. Doudna
day of February, 2014	Martin Jinek

MacMJinekHD:Users:Jinek:mjinek:Library:Containers:com.apple.mail:Data:Library:Mail Downloads:BERK-187_BK-2012-115-5_ Assignment_UC.docx

Lei S. Qi

Atty Docket No.; BERK-187 (UC Case No.: BK-2012-115-5)

ASSIGNMENT

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

- 1. Jennifer A. Doudna,
- 2. Martin Jinek
- 3. Lei S. Oi
- James Harrison Doudna Cate
- Wendell A. Lim

hereby sells, assigns and transfers to ASSIGNEE, The Regents of the University of California, a California Corporation, having its statewide administrative offices located 1111 Franklin Street, Twelfth Floor, Oakland, CA 94607-5200, 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:

Transcrip	
and which is found in	
(a) U.S. provisional application filed herewith and l	isting the above named persons as inventors
(b) U.S. patent application filed herewith and listing	the above named persons as inventors
(c) X U.S. application serial no. 13/842,859	, filed on March 15, 2013
(d) U.S. Patent No.:	, issued
(e) PCT Patent Application No.	, filed on
and any legal equivalent thereof in a foreign country, included Patent to be obtained for said invention by the above application, conversion to 35 USC 111(a) or substitute there Letters Patent and all rights under all International Convention	ation or any continuation, division, continuation-in-part, of, and any reissue, reexamination or extension of said
ASSIGNOR(S) hereby agrees that no assignment, sale, agreed into which would conflict with this assignment:	ment or encumbrance has been or will be made or entered
ASSIGNOR(S) further agrees that ASSIGNEE will, upon its documents relating to said invention and said Letters Patent a ASSIGNOR and will testify as to the same in any interfere proceeding relating thereto and will promptly execute and del papers, instruments or affidavits required to apply for, obtain, and said Letters Patent and said equivalents thereof which rethereof. An attorney of record is authorized and requested assignment the filing date and serial number of said application.	and legal equivalents as may be known and accessible to nee, post grant review, inter partes review, litigation, or iver to ASSIGNEE or its legal representative any and all maintain, issue or enforce said application, said invention may be necessary or desirable to carry out the purposes by the execution of this assignment to insert into this
AND the <u>ASSIGNOR(S)</u> requests the Commissioner of Pat United States and any reissue or extension thereof to the ASSI	ents and Trademarks to issue said Letters Patent of the GNEE, The Regents of the University of California.
Executed this	Signature of Inventor(s)
day of, 20	Jennifer A. Doudna
day of November, 20/3	Martin Jinek
, 40, 50	Lei S. Qi

MacHD Users: ublizzard:Library: Caches. Temporary Items. Outlook. Temp: BERK-187, BK-2012-115-5_Assignment_UC.docx

REEL: 041771 FRAME: 0062

ASSIGNMENT

Atty Docket No.: BERK-187 UC Case No.: BK-2012-115-5

day of Novel 25, 2013

James Harrison Doudna Cate

___day of ______, 20___

Wendell A. Lim

Assignee hereby accepts this Assignment:

Paula Borden Patent Agent Aug. 4, 2014

Names Harrison Doudna Cate

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PATENT REEL: 041771 FRAME: 0063

ASSIGNMENT Atty Docket No.: BERK-187 UC Case No.:

Page 1 of 2

day of		James Harrison Doudna Cate
8 day of Nova	ember, 20_13	Wendell A. Lim
Assignee hereby acce	pts this Assignment:	
Name	Title	Data

Page 2 of 2

PATENT REEL: 041771 FRAME: 0064

RECORDED: 03/28/2017