04/30/2019 505453653

PATENT ASSIGNMENT COVER SHEET

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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

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

PROPERTY NUMBERS Total: 12

Property Type	Number
Application Number:	16382093
Application Number:	16382096
Application Number:	16382097
Application Number:	16382100
Application Number:	16383412
Application Number:	16383422
Application Number:	16383433
Application Number:	16383443
Application Number:	16385360
Application Number:	16385383
Application Number:	16380758
Application Number:	16380781
<u> </u>	<u> </u>

CORRESPONDENCE DATA

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PATENT REEL: 049038 FRAME: 0831 505453653

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Address Line 4: REDWOOD CITY, CALIFORNIA 94065

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NAME OF SUBMITTER:	KYLE A. GURLEY
SIGNATURE:	/Kyle A. Gurley/
DATE SIGNED:	04/30/2019

Total Attachments: 5

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PATENT REEL: 049038 FRAME: 0832 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	entitled:		, , , , , , , , , , , , , , , , , , , ,		
"Methods and Compositions for	r RNA-Directe	ed Target DNA Modifi	cation and For	RNA-Directed Modulation of Transcript	tion"
and which is found in					
(a) U.S. provisional	application fi	iled herewith and lis	ting the abov	e named persons as inventors	
(b) U.S. patent applie	cation filed h	erewith and listing t	he above nan	ned 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 Appl	ication No		_, filed on		
Patent to be obtained for said	l invention by USC 111(a)	y the above applicat or substitute thereof	tion or any co f, and any re	o claim priority and, in and to, all L ontinuation, division, continuation-in- issue, reexamination or extension of ction of Industrial Property;	-part,
ASSIGNOR(S) hereby agrees into which would conflict with			ent or encumb	brance has been or will be made or en	itered
documents relating to said inv ASSIGNOR and will testify a proceeding relating thereto an papers, instruments or affidavi and said Letters Patent and sa	vention and sa as to the sam d will prompits required to aid equivalen ord is authori	aid Letters Patent an ne in any interference thy execute and delive apply for, obtain, mats thereof which made zed and requested by	d legal equivole, post grant yer to ASSIGI naintain, issue ay be necessary the execut	vided promptly with all pertinent fact, ralents as may be known and accessible review, inter partes review, litigation NEE or its legal representative any are or enforce said application, said investry or desirable to carry out the purplication of this assignment to insert into ly known.	ole to on, or nd all ention poses
				emarks to issue said Letters Patent og egents of the University of California.	of the
Executed this			Signature of	Inventor(s)	
31 day of Jan.	., 20 <u>14</u>		Jenniter A. D	nife a. Doub	
day of	_, 20		Martin Jinek		
day of	., 20		Lei S. Qi		

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"

Ira	anscription"
and which is found in	
(a) U.S. provisional application filed herewith	h and listing 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. <u>13/842,859</u>	, filed onMarch 15, 2013
(d) U.S. Patent No.:	, issued
(e) PCT Patent Application No	, filed on
Patent to be obtained for said invention by the above	including the right to claim priority and, in and to, all Letter application or any continuation, division, continuation-in-parte thereof, and any reissue, reexamination or extension of said ventions for the Protection of Industrial Property;
<u>ASSIGNOR(S)</u> hereby agrees that no assignment, sale, into which would conflict with this assignment;	agreement or encumbrance has been or will be made or entered
documents relating to said invention and said Letters F ASSIGNOR and will testify as to the same in any im- proceeding relating thereto and will promptly execute a papers, instruments or affidavits required to apply for, of and said Letters Patent and said equivalents thereof w	con its request, be provided promptly with all pertinent facts and Patent and legal equivalents as may be known and accessible to terference, post grant review, inter partes review, litigation, o and deliver to ASSIGNEE or its legal representative any and all obtain, maintain, issue or enforce said application, said invention which may be necessary or desirable to carry out the purpose quested by the execution of this assignment to insert into this dication when officially known.
	of Patents and Trademarks to issue said Letters Patent of 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 linek Martin linek

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
- 4. 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:

Methods and Compositions for KNA-Directed Target DN 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, agreer 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 interfered 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
	Lei S. Qi

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

ASSIGNMENT

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

day of Noveder, 2013

James Harrison Doudna Cate

___day of ______, 20___

Wendell A. Lim

Assignee hereby accepts this Assignment:

Paula Borden Patent Agent Aug. 4, 2014

Name

Title

Date

Page 2 of 2

PATENT REEL: 049038 FRAME: 0836

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

Page 1 of 2

day of	· 20 sension	James Harrison Doudna Cate	
8 day of 16r	lember, 20 13	Wendell A. Lim	man
Assignee hereby acc	epts this Assignment:		
Name	Tile	Date	

Page 2 of 2

PATENT REEL: 049038 FRAME: 0837

RECORDED: 04/30/2019