

## PATENT ASSIGNMENT COVER SHEET

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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>
	SILVANA KONERMANN	11/05/2018
<b>RECEIVING PARTY DATA</b>		
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<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	15844530
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<b>ATTORNEY DOCKET NUMBER:</b>	BROD-3480US2	
<b>NAME OF SUBMITTER:</b>	SUSAN FRATTURA	
<b>SIGNATURE:</b>	/Susan Frattura/	
<b>DATE SIGNED:</b>	11/08/2018	
<b>Total Attachments: 2</b>		
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## ASSIGNMENT

WHEREAS, I, **SILVANA KONERMANN**, having a correspondence address of c/o 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, have invented with others certain inventions and improvements disclosed in patent applications entitled "**NOVEL CRISPR ENZYMES AND SYSTEMS**," filed with the United States Patent and Trademark Office as follows:

Application No.	Filing Date
15/844,530	December 16, 2017
PCT/US2016/038258	June 17, 2016
62/320,231	April 8, 2016
62/296,522	February 17, 2016
62/285,349	October 22, 2015
62/181,675	June 18, 2015

and

WHEREAS, **MASSACHUSETTS INSTITUTE OF TECHNOLOGY**, having a principal place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, is desirous of acquiring an interest in the same; and

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which I hereby acknowledge, I, **SILVANA KONERMANN**, *by these presents, do sell, assign, and transfer unto said Assignee, MASSACHUSETTS INSTITUTE OF TECHNOLOGY*, our full, exclusive, and entire right, title, and interest in and to said application, in and to any divisions, continuations, reexaminations, and reissues thereof, and in and to all inventions and improvements disclosed and described in said applications, preparatory to obtaining Letters Patent of the United States therefor; and we hereby request the Director of the U.S. Patent and Trademark Office to issue any and all Letters Patent of the United States resulting from said applications, or from a division, continuation, reexamination, or reissue thereof, to **MASSACHUSETTS INSTITUTE OF TECHNOLOGY**, for its interest and for the use and benefit of **MASSACHUSETTS INSTITUTE OF TECHNOLOGY**, as assignee, and its assigns and legal representatives;

For the same consideration, I, by these presents, do sell, assign, and transfer to **MASSACHUSETTS INSTITUTE OF TECHNOLOGY**, my full, exclusive, and entire right, title, and interest in and to any foreign application or applications corresponding to said application, in whole or in part, in countries other than the United States, in and to any Letters Patent and similar protective rights granted on said foreign applications, and in and to the right to

Assignment

U.S. Non-Provisional Application No. 15/844,530

PCT Application No. PCT/US2016/038258

U.S. Provisional Application No. 62/320,231

U.S. Provisional Application No. 62/296,522

U.S. Provisional Application No. 62/285,349

U.S. Provisional Application No. 62/181,675

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claim any applicable priority rights arising from or required for said foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations; said foreign applications to be filed and issued in the name of MASSACHUSETTS INSTITUTE OF TECHNOLOGY, or their designees insofar as permitted by applicable law;

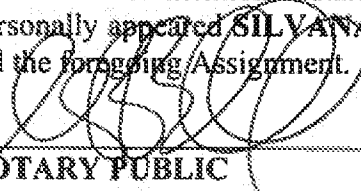
AND, for the same consideration, I agree to sign all lawful papers, execute all division, continuing, reexamination, reissue, and other applications, make all assignments and rightful oaths, and generally do everything possible to aid MASSACHUSETTS INSTITUTE OF TECHNOLOGY, its successors, assigns, and nominees to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

In testimony whereof, I hereunto set my hand and seal on the date indicated below.

  
SILVANA KONERMANN  
11/05/18  
Date

COMMONWEALTH OF MASSACHUSETTS  
COUNTY OF MIDDLESEX

Before me, a Notary Public in and for the aforementioned state, on this 5TH day of NOVEMBER, 20 18, personally appeared SILVANA KONERMANN, who, being duly sworn, signed and acknowledged the foregoing Assignment.

  
NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_

