

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5617720

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the EXECUTION DATE previously recorded on Reel 049590 Frame 0234. Assignor(s) hereby confirms the EXECUTION DATE OF THE ASSIGNMENT.
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
FEDERICO BUERSGENS	05/02/2019
JOACHIM STEHR	05/02/2019
LARS ULLERICH	05/02/2019
LIDIYA OSINKINA	05/02/2019
EIMANTAS RUSECKAS	05/02/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GNA BIOSOLUTIONS GMBH
<b>Street Address:</b>	AM KLOPFERSPITZ 19
<b>City:</b>	PLANEKG/MARTINSRIED
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	82152
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16343675
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(315)422-9331
<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>	3154237100
<b>Email:</b>	kpiraino@harrisbeach.com
<b>Correspondent Name:</b>	LAURA W. SMALLEY
<b>Address Line 1:</b>	HARRIS BEACH PLLC
<b>Address Line 2:</b>	SUITE 200, 333 WEST WASHINGTON STREET
<b>Address Line 4:</b>	SYRACUSE, NEW YORK 13202
<b>ATTORNEY DOCKET NUMBER:</b>	1579_035
<b>NAME OF SUBMITTER:</b>	LAURA W. SMALLEY
<b>SIGNATURE:</b>	/Laura W. Smalley 59330/
<b>DATE SIGNED:</b>	07/15/2019

**Total Attachments: 7**

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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5591186

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
FEDERICO BUERSGENS	05/22/2019 05/02/2019
JOACHIM STEHR	05/22/2019 05/02/2019
LARS ULLERICH	05/22/2019 05/02/2019
LIDIYA OSINKINA	05/22/2019 05/02/2019
EIMANTAS RUSECKAS	05/22/2019 05/02/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GNA BIOSOLUTIONS GMBH
<b>Street Address:</b>	AM KLOPFERSPITZ 19
<b>City:</b>	PLANEgg/MARTINSRIED
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	82152
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16343675
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(315)422-9331
<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>	3154237100
<b>Email:</b>	kpiraino@harrisbeach.com
<b>Correspondent Name:</b>	LAURA W. SMALLEY
<b>Address Line 1:</b>	HARRIS BEACH PLLC
<b>Address Line 2:</b>	SUITE 200, 333 WEST WASHINGTON STREET
<b>Address Line 4:</b>	SYRACUSE, NEW YORK 13202
<b>ATTORNEY DOCKET NUMBER:</b>	1579_035
<b>NAME OF SUBMITTER:</b>	LAURA W. SMALLEY
<b>SIGNATURE:</b>	/Laura W. Smalley 59330/
<b>DATE SIGNED:</b>	06/26/2019
<b>Total Attachments: 4</b>	

## ASSIGNMENT BY INVENTORS

**THIS ASSIGNMENT**, made by Federico Buersgens; Joachim Stehr; Lars Ullerich; Lidiya Osinkina; and Eimantas Ruseckas (hereinafter referred to as Assignors), residing at c/o GNA Biosolutions GmbH, Am Klopferspitz 19, 82152 Planegg/Martinsried, GERMANY; c/o GNA Biosolutions GmbH, Am Klopferspitz 19, 82152 Planegg/Martinsried, GERMANY; c/o GNA Biosolutions GmbH, Am Klopferspitz 19, 82152 Planegg/Martinsried, GERMANY; c/o GNA Biosolutions GmbH, Am Klopferspitz 19, 82152 Planegg/Martinsried, GERMANY; and c/o GNA Biosolutions GmbH, Am Klopferspitz 19, 82152 Planegg/Martinsried, GERMANY, respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in METHOD FOR CARRYING OUT A POLYMERASE CHAIN REACTION AND DEVICE FOR CARRYING OUT THE METHOD, set forth in a Patent application for which an International Application was filed on October 20, 2017, PCT/EP2017/076902, designating the United States; and

**WHEREAS**, GNA Biosolutions GmbH, a Corporation having its principal place of business at Am Klopferspitz 19, 82152 Planegg/Martinsried, GERMANY (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

**NOW, THEREFORE**, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues,

reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

**AND** for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

**AND** Assignors hereby request the Commissioner for Patents and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

**AND** Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

HARRIS BEACH PLLC

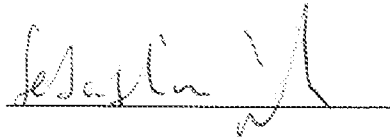
All practitioners at Customer Number 15204

**AND** Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: May 2, 2019

  
Federico Buersgens

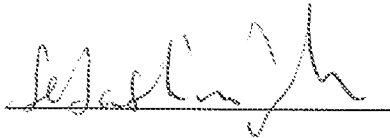
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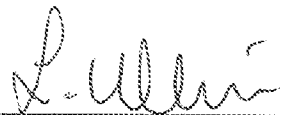
Date: May 2, 2019

  
Joachim Stehr

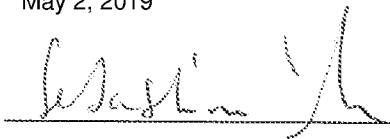
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Date: May 2, 2019

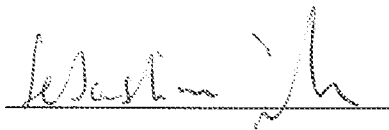
  
Lars Ullerich

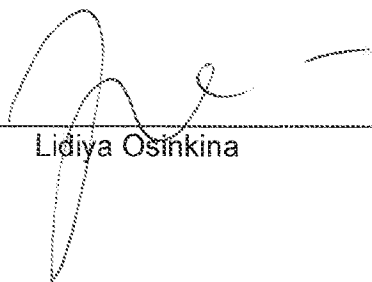
Witness:



Date: May 2, 2019

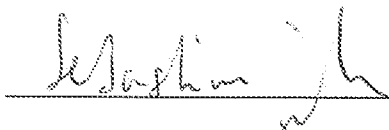
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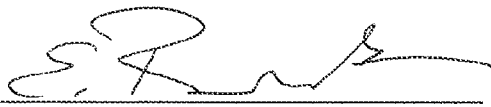


  
Lidiya Osinkina

Date: May 2, 2019

Witness:



  
Eimantas Ruseckas



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JUNE 27, 2019

PTAS

LAURA W. SMALLEY  
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**505544389**

### UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 06/26/2019

REEL/FRAME: 049590/0234

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BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 1579\_035

ASSIGNOR:

BUERSGENS, FEDERICO

DOC DATE: ~~05/22/2019~~ 05/02/2019

ASSIGNOR:

STEHR, JOACHIM

DOC DATE: ~~05/22/2019~~ 05/02/2019

ASSIGNOR:

ULLERICH, LARS

DOC DATE: ~~05/22/2019~~ 05/02/2019

ASSIGNOR:

OSINKINA, LIDIYA

DOC DATE: ~~05/22/2019~~ 05/02/2019

ASSIGNOR:

RUSECKAS, EIMANTAS

DOC DATE: ~~05/22/2019~~ 05/02/2019

ASSIGNEE:

GNA BIOSOLUTIONS GMBH  
AM KLOPFERSPITZ 19  
PLANEGG/MARTINSRIED, GERMANY 82152



APPLICATION NUMBER: 16343675

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: METHOD FOR CARRYING OUT A POLYMERASE CHAIN REACTION AND DEVICE  
FOR CARRYING OUT THE METHOD

ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION