

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

Assignment ID: PATI379781

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the Applicant Name previously recorded on Reel 66037 Frame 625. Assignor(s) hereby confirms the Assignment..
<b>RESUBMIT DOCUMENT ID:</b>	508610912
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Nikhil Dhar	05/19/2022
Marianna Keaveney	05/19/2022
Kyle Backman	05/19/2022
Everett Webster	05/19/2022
Nikolai Eroshenko	05/19/2022
Justin Quinn	05/19/2022
<b>RECEIVING PARTY DATA</b>	
<b>Company Name:</b>	Helix Nanotechnologies Inc
<b>Street Address:</b>	5 Channel Center Street, Suite 600
<b>City:</b>	Boston
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02210
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	18451322
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	6175025002
<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>	6172485000
<b>Email:</b>	patentdocket@choate.com
<b>Correspondent Name:</b>	Choate, Hall & Stewart LLP
<b>Address Line 1:</b>	Two International Place
<b>Address Line 4:</b>	Boston , MASSACHUSETTS 02110
<b>ATTORNEY DOCKET NUMBER:</b>	2012611-0076
<b>NAME OF SUBMITTER:</b>	Victoria Hughes
<b>SIGNATURE:</b>	Victoria Hughes
<b>DATE SIGNED:</b>	07/23/2024

**Total Attachments: 19**

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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT8366426

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the THIRD INVENTOR'S NAME FROM KYL BACKMAN TO KYLE BACKMAN previously recorded on Reel 065104 Frame 0602. Assignor(s) hereby confirms the SALE, ASSIGNMENT AND TRANSFER OF ENTIRE RIGHT, TITLE AND INTEREST.
<b>RESUBMIT DOCUMENT ID:</b>	508162990

## CONVEYING PARTY DATA

Name	Execution Date
NIKHIL DHAR	05/19/2022
MARIANNA KEAVENEY	05/19/2022
KYLE BACKMAN	05/19/2022
EVERETT WEBSTER	05/19/2022
NIKOLAI EROSHENKO	05/19/2022
JUSTIN QUINN	05/19/2022

## RECEIVING PARTY DATA

<b>Name:</b>	HELIX NANOTECHNOLOGIES, INC.
<b>Street Address:</b>	340 S LEMON AVE
<b>Internal Address:</b>	#4940
<b>City:</b>	WALNUT
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	91789

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	18451322

## CORRESPONDENCE DATA

**Fax Number:** (617)248-4000

*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.*

**Phone:** 6172485000

**Email:** patentdocket@choate.com

**Correspondent Name:** CHOATE, HALL & STEWART LLP

**Address Line 1:** 2 INTERNATIONAL PLACE

**Address Line 4:** BOSTON, MASSACHUSETTS 02110

**ATTORNEY DOCKET NUMBER:** 2012611-0076

**PATENT**  
**REEL: 068403 FRAME: 0941**

**JOINT ASSIGNMENT**

WHEREAS, each of the below-named inventors whose name and residence is set forth in the following Table 1:

Inventor Name	City, State
1. Nikhil Dhar	Boston, Massachusetts
2. Marianna Keaveney	Walpole, Massachusetts
3. Kyle Backman	Arlington, Massachusetts
4. Everett Webster	North Andover, Massachusetts
5. Nikolai Eroshenko	Boston, Massachusetts
6. Justin Quinn	Malden, Massachusetts

Table 1

hereby declares and agrees, on behalf of himself/herself and all of his/her successors and assigns that each is aware of the patent application(s) entitled:

**MODIFIED RIBONUCLEIC ACIDS AND USES THEREOF**

☐ prepared for filing in the United States Patent and Trademark Office; or

☒ identified by United States Application No. 17/736966  
filed in the United States Patent and Trademark Office on May 4, 2022; and

☐ identified by International Patent Application No. \_\_\_\_\_  
filed on \_\_\_\_\_; and

☒ and is also aware of the following priority applications:

Application No.	Filed
63/273031	October 28, 2021
63/185925	May 7, 2021

WHEREAS, **Helix Nanotechnologies, Inc.** <sup>HE RE 7/2024</sup> (hereinafter "ASSIGNEE"), having a usual place of business at **340 S Lemon Ave #4940, Walnut, California 91789**, desires to acquire or confirm an interest therein;

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of agreements previously and duly entered into between the parties, and/or for other good and valuable consideration, the receipt of which is hereby acknowledged, each of us hereby confirms, agrees, and/or declares that:

1. I have sold, assigned, and transferred and/or do hereby sell, assign, and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title, and interest in and throughout the United States of America, its territories and all foreign countries, in and to any and all inventions described in the patent application, and/or any priority applications noted above, including any right of priority thereto; and hereby confirm that my sale, assignment and transfer is and was effective at least as of the filing date of the patent application and/or priority application;

2. My sale, assignment and transfer applies to the above-referenced patent application, and to any application that is based in whole or in part on the patent application, including any divisional, continuing, substitute, renewal, reissue, reexamination and other applications, for example that claim priority to the patent application. Also, this sale, assignment and transfer pertains to any and all other rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including all rights of priority under the International Convention for the Protection of Industrial Property, and in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued in the United States and foreign countries; said inventions, applications, and patent(s) to be held and enjoyed by ASSIGNEE for its own use and for its successors, assigns and legal representatives, to the full end of the term for which said patent(s) may be granted as fully and entirely as the same would have been held by me had this sale, assignment and transfer not been made;

3. This Assignment, being of my entire right, title, and interest in and to the inventions, carries with it the right in ASSIGNEE, by attorneys and agents of ASSIGNEE selection, to apply for and receive any and all patent(s) for said inventions in its own name;

4. I, or my executor(s) and/or administrator(s) will execute upon request any other lawful documents and likewise will perform any other lawful acts which may be deemed necessary to secure fully the patent(s) to ASSIGNEE, its successors, assignees, and legal representatives, but at its expense and charges, including the execution of application for patents in foreign countries, the execution of substitution, reissue, divisional or continuation applications, and the giving of testimony, preliminary statements, or other statements in any interference or other proceeding in which the inventions or any applications or patents directed to the inventions may be involved by communicating to the ASSIGNEE all facts I know relating to the inventions and their history, and generally by doing everything possible which ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for the inventions and for vesting title in the inventions and all applications for patent and all patents on the inventions in ASSIGNEE;

5. I hereby authorize ASSIGNEE or its attorneys or agents to insert the correct application number(s) and/or filing date(s) into this assignment document, if appropriate;

6. I hereby appoint ASSIGNEE as my common agent for purposes of prosecuting international patent applications and any national patent applications for which such common agency is recognized;

7. I hereby request the Commissioner for Patents of the United States Patent and Trademark Office to issue any and all patent(s) as shall be granted upon said application or applications based thereon to ASSIGNEE, its successors, assigns, and legal representatives;

8. I hereby covenant with said ASSIGNEE that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.

Signature: Nikhil Dhar

Date: 05/19/2022

**Nikhil Dhar**

Witness Signature: Marianna Keaveney

Witness Name (printed): MARIANNA KEAVENEY

Witness Signature: Everett Webster

Witness Name (printed): EVERETT WEBSTER

Signature: Marianna Keaveney

Date: 05/19/2022

**Marianna Keaveney**

Witness Signature: Nikhil Dhar

Witness Name (printed): NIKHIL DHAR

Witness Signature: Everett Webster

Witness Name (printed): EVERETT WEBSTER



Signature: Kyle Backman

Date: 05/19/2022

**Kyle Backman**

Witness Signature: Marianna Keaveney

Witness Name (printed): MARIANNA KEAVENEY

Witness Signature: Everett Webster

Witness Name (printed): EVERETT WEBSTER

Signature: Everett Webster

Date: 05/19/2022

**Everett Webster**

Witness Signature: Marianna Keaveney

Witness Name (printed): MARIANNA KEAVENEY

Witness Signature: Nikhil Dhar

Witness Name (printed): NIKHIL DHAR

Signature: Nikolai Eroshenko

Date: 05/19/2022


**Nikolai Eroshenko**

Witness Signature: Nikhil Dhar

Witness Name (printed): NIKHIL DHAR

Witness Signature: Everett Webster

Witness Name (printed): EVERETT WEBSTER

Signature: 

**Justin Quinn**

Date: 05/19/2022

Witness Signature: Nikhil Dhar

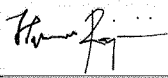
Witness Name (printed): NIKHIL DHAR

Witness Signature: Everett Webster

Witness Name (printed): EVERETT WEBSTER

The ASSIGNEE hereby acknowledges and accepts the foregoing assignment.

The undersigned (whose title is supplied below) is authorized to act on behalf of the ASSIGNEE.

Signature:  Date: 05/19/2022

Name (printed): HANNU RAJANIEMI


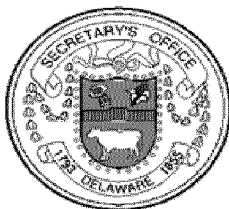
Title (printed): PRESIDENT AND CEO

# Delaware

The First State

Page 1

*I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF  
DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT  
COPY OF THE CERTIFICATE OF INCORPORATION OF "HELIX  
NANOTECHNOLOGIES INC", FILED IN THIS OFFICE ON THE EIGHTEENTH  
DAY OF SEPTEMBER, A.D. 2013, AT 9:31 O`CLOCK A.M.*



Jeffrey W. Bullock, Secretary of State

5400687 8100  
SR# 20242398763

You may verify this certificate online at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

Authentication: 203545720  
Date: 05-23-24

**PATENT**  
**REEL: 068403 FRAME: 0952**

I, Nikolai Eroshenko, am a Director and the Chief Scientific Officer of Helix Nanotechnologies Inc. Helix Nanotechnologies Inc is a corporation that was incorporated in the State of Delaware on September 18, 2023, under file number 5400687. Attached herein is a certified copy of the Certificate of Incorporation for Helix Nanotechnologies Inc.

The patent applications and patents listed on Schedule A were originally filed naming "Helix Nanotechnologies, Inc." as the Applicant. "Helix Nanotechnologies, Inc." includes a comma and period punctuation that are not in Helix Nanotechnologies Inc's official name, as evidenced by the attached Certificate of Incorporation. I hereby attest and confirm that the correct owner and applicant name for all patent applications and patents listed on Schedule A is "Helix Nanotechnologies Inc". The previously identified name for the Applicant (with punctuation) is a variant of the official "Helix Nanotechnologies Inc." which commonly has been used by mistake.

In summary, Helix Nanotechnologies Inc is the rightful owner and applicant of all patent applications and patents listed on Schedule A.

Sincerely,

A handwritten signature in black ink, appearing to read 'Nikolai Eroshenko', is written over a horizontal line.

Nikolai Eroshenko, PhD

Chief Scientific Officer

HELIX NANOTECHNOLOGIES INC

5 Channel Center Street, Suite 600

Boston, MA 02210

**Schedule A**

<b>Client Ref.</b>	<b>Matter No.</b>	<b>Application No.</b>	<b>Patent No.</b>	<b>Filing Date</b>
HN001-P1	2012611-0001	62/507144		16-May-2017
HN001-WO	2012611-0009	PCT/US18/32988		16-May-2018
HN001-US	2012611-0016	16/614101	11473090	15-Nov-2019
HN001-US2	2012611-0042	17/897498		29-Aug-2022
HN004-P1	2012611-0006	62/561131		20-Sep-2017
HN004-P2	2012611-0010	62/720105		20-Aug-2018
HN004-WO1	2012611-0011	PCT/US18/52077		20-Sep-2018
HN004-US	2012611-0018	16/649105		19-Mar-2020
HN004-WO2	2012611-0014	PCT/US19/47243		20-Aug-2019
HN004-US2	2012611-0027	17/269787		19-Feb-2021
HN007-P1	2012611-0015	62/902526		19-Sep-2019
HN007-US	2012611-0022	17/025717		18-Sep-2020
HN008-P1	2012611-0017	62/967341		29-Jan-2020
HN008-WO	2012611-0025	PCT/US21/15900		29-Jan-2021
HN008-US	2012611-0024	17/163168		29-Jan-2021
HN009-P1	2012611-0019	63/019158		01-May-2020
HN009-WO	2012611-0030	PCT/US21/30332		30-Apr-2021
HN009-US	2012611-0029	17/246451		30-Apr-2021
HN010-P1	2012611-0023	63/156860		04-Mar-2021
HN010-WO	2012611-0036	PCT/US22/18610		03-Mar-2022
HN010-US	2012611-0035	17/685717	11771758	03-Mar-2022
HN010-US2	2012611-0078	18/235464		18-Aug-2023
HN011-P1	2012611-0028	63/185925		07-May-2021
HN011-P2	2012611-0032	63/273031		28-Oct-2021
HN011-WO	2012611-0038	PCT/US22/27721		04-May-2022
HN011-US	2012611-0037	17/736966	11639501	04-May-2022



<b>Client Ref.</b>	<b>Matter No.</b>	<b>Application No.</b>	<b>Patent No.</b>	<b>Filing Date</b>
HN011-US2	2012611-0054	18/075085		05-Dec-2022
HN011-US3	2012611-0076	18/451322		17-Aug-2023
HN011-US4	2012611-0077	18/451386		17-Aug-2023
HN013-P1	2012611-0031	63/296824		05-Jan-2022
HN013-WO	2012611-0052	PCT/US23/10253		05-Jan-2023
HN013-US1	2012611-0053	18/093805		05-Jan-2023
HN012-P1	2012611-0039	63/338429		04-May-2022
HN012-WO	2012611-0056	PCT/US23/21060		04-May-2023
HN012-US	2012611-0057	18/143533		04-May-2023
HN014-P1	2012611-0051	63/422312		03-Nov-2022
HN014-WO	2012611-0096	PCT/US23/36773		03-Nov-2023
HN015-P1	2012611-0055	63/606074		04-Dec-2023
HN016-P1	2012611-0058	63/627352		31-Jan-2024
HN018-P1	2012611-0093	63/520597		18-Aug-2023
HN019.P1	2012611-0098	63/614050		22-Dec-2023

CERTIFICATE OF INCORPORATION  
OF

**Helix Nanotechnologies Inc**

**FIRST:** The name of the corporation is:  
**Helix Nanotechnologies Inc**

**SECOND:** Its registered office in the State of Delaware is located at 16192 Coastal Highway, Lewes, Delaware 19958-9776, County of Sussex. The registered agent in charge thereof is Harvard Business Services, Inc.

**THIRD:** The purpose of the corporation is to engage in any lawful activity for which corporations may be organized under the General Corporation Law of Delaware.

**FOURTH:** The total number of shares of stock which the corporation is authorized to issue is 1,000 shares of common stock having a par value of \$1.000000 per share.

**FIFTH:** The business and affairs of the corporation shall be managed by or under the direction of the board of directors, and the directors need not be elected by ballot unless required by the bylaws of the corporation.

**SIXTH:** This corporation shall be perpetual unless otherwise decided by a majority of the Board of Directors.

**SEVENTH:** In furtherance and not in limitation of the powers conferred by the laws of Delaware, the board of directors is authorized to amend or repeal the bylaws.

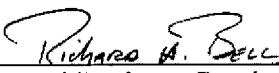
**EIGHTH:** The corporation reserves the right to amend or repeal any provision in this Certificate of Incorporation in the manner prescribed by the laws of Delaware.

**NINTH:** The incorporator is Richard H. Bell in care of Harvard Business Services, Inc., whose mailing address is 16192 Coastal Highway, Lewes, DE 19958.

**TENTH:** To the fullest extent permitted by the Delaware General Corporation Law a director of this corporation shall not be liable to the corporation or its stockholders for monetary damages for breach of fiduciary duty as a director.

I, Richard H. Bell, for the purpose of forming a corporation under the laws of the State of Delaware do make and file this certificate, and do certify that the facts herein stated are true; and have accordingly signed below, this September 18, 2013

Signed and Attested to by:

  
Harvard Business Services, Inc.  
By Richard H. Bell, Incorporator