505664912 09/10/2019

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT | | |
|------------------------|----------------|----------------|--|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | |
| CONVEYING PARTY DATA | | | |
| Name Execution Date | | | |
| | Name | Execution Date | |
| CHRISTOPHER C. CUMMINS | Name | 08/08/2019 | |

RECEIVING PARTY DATA

| Name: | MASSACHUSETTS INSTITUTE OF TECHNOLOGY |
|-----------------|---------------------------------------|
| Street Address: | 77 MASSACHUSETTS AVENUE |
| City: | CAMBRIDGE |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02142 |

PROPERTY NUMBERS Total: 2

| Property Type | Number |
|---------------------|----------|
| Application Number: | 62693975 |
| Application Number: | 16503551 |

CORRESPONDENCE DATA

| | (202)429-3902 o the e-mail address first; if that is unsuccessful, it will be sent d; if that is unsuccessful, it will be sent via US Mail. |
|---------------------|---|
| Phone: | 2024293000 |
| Email: | ipdocketing@steptoe.com |
| Correspondent Name: | HAROLD H. FOX |
| Address Line 1: | STEPTOE & JOHNSON LLP |
| Address Line 2: | 1330 CONNECTICUT AVENUE NW |
| Address Line 4: | WASHINGTON, D.C. 20036 |

| ATTORNEY DOCKET NUMBER: | 14952.0559 |
|-------------------------|---------------------|
| NAME OF SUBMITTER: | LINDA M. FIELDING |
| SIGNATURE: | /Linda M. Fielding/ |
| DATE SIGNED: | 09/10/2019 |

Total Attachments: 3

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ASSIGNMENT

For valuable consideration, we, Christopher C. Cummins of Dorchester, MA and Scott Shepard of Somerville, MA; hereby assign to: Massachusetts Institute of Technology, a corporation of Massachusetts, having a place of business at 77 Massachusetts Avenue, Cambridge, MA 02142; its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of applications for United States Patent signed by us, entitled SYNTHESIS OF POLYPHOSPHORYLATED MOLECULES FROM POLYPHOSPHATES, filed July 4, 2018, and assigned U.S. Application Number 62/693,975, and entitled SYNTHESIS OF POLYPHOSPHORYLATED MOLECULES FROM POLYPHOSPHATES, filed July 4, 2019, and assigned U.S. Application Number <u>16/503,551</u>, and we authorize and request the attorneys appointed in said applications to hereafter complete these assignments by inserting above the filing date and serial number of said applications when known; these assignments including said applications, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said applications under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully these assignments.

Page 1 of 3

PATENT REEL: 050332 FRAME: 0104

Attorney Docket No: 14952.0559/ MIT Case No.: 20486

| Inventor Signature: | Ch. | Date: 8/8/19 |
|---------------------|------------------------|--------------|
| Printed Name: | Christopher C. Cummins | |
| Address: | 12A Spring Garden St. | |

Dorchester, MA 02125

Signature witnessed by:

8/8/19

Date

| WITNESS: | A | 6 | | | | |
|---------------|--------|---------|-------|-----|------|-----|
| Printed Name: | Mic | HAC- | BAILY | | GEB | ari |
| Address: | 87 | SAN SOO | BOUGH | St. | Apr. | 403 |
| | BOSTON | , MA; | 0211 | 5. | | |

Signature witnessed by:

818119

Date

WITNESS: Allunane Printed Name: Hyelmano, Hou Address: 1800 Massarhusetts he Apt 5 Camberdyz, MA 02140

Page 2 of 3

PATENT REEL: 050332 FRAME: 0105

| | | Attorney Docket No: | 4952.0559/ MIT Case No.: 20486 |
|----------------------|---|---------------------|--------------------------------|
| | | | 8/18/10 |
| Inventor Signature:- | , | | Date: 0/0/11 |
| Printed Name: | Scott Shepard | | |
| Address: | 31 Rossmore St. | | |
| | Somerville, MA 0 | 2143 | |

Signature witnessed by:

8/8/2019.

Date

| WITNESS: | the | | | |
|---------------|---------|------------|------|---------|
| Printed Name: | Michana | BAILY | Gass | 12N |
| Address: | | 58 0A-01GH | st. | Apr 403 |
| | BOSTON, | M4, 0211 | 5. | |

Signature witnessed by:

81812019

Date

WITNESS: 2 Hielwa Printed Name: _ re Apt 5 sail Address: 1800 MA Cambridge, 02140