506150966 07/13/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MATTHEW F. WHELIHAN	07/13/2020

RECEIVING PARTY DATA

Name:	EPICYPHER, INC.
Street Address:	6 DAVIS DRIVE
City:	DURHAM
State/Country:	NORTH CAROLINA
Postal Code:	27709

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16678686

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	1426-13CT
NAME OF SUBMITTER:	BETTY-LOU MEDLIN
SIGNATURE:	/betty-loumedlin/
DATE SIGNED:	07/13/2020

Total Attachments: 3

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PATENT 506150966 REEL: 053193 FRAME: 0990

ASSIGNMENT

THIS ASSIGNMENT, made by us, Martis William Cowles, a citizen of the United States of America, residing at 108 Cynthia Drive, Chapel Hill, North Carolina 27514; Matthew F. Whelihan, a citizen of the United States of America, residing at 5808 Walnut Cove Drive, Durham, North Carolina 27713; Andrea L. Johnstone, a citizen of the United States of America, residing at 1937 Kateland Court, Apex, North Carolina 27502; Michael-Christopher Keogh, a citizen of the United States of America, residing at 22 Water Street, Apt. 1224, Cambridge, Massachusetts 02141; Zu-Wen Sun, a citizen of the United States of America, residing at 1145 Holly Tree Farms Road, Brentwood, Tennessee 37027; Nathan W. Hall, a citizen of the United States of America, residing at 128 Timber Creek Path, Chapel Hill, North Carolina 27517; and Matthew R. Marunde, a citizen of the United States of America, residing at 200 Crest Street A7, Carrboro, North Carolina 27510; and

WITNESSETH: That,

WHEREAS, we are joint inventors of certain new and useful improvements in QUANTIFICATION OF NUCLEOSOME MODIFICATIONS USING CHEMICALLY-DEFINED RECOMBINANT NUCLEOSOMES, for which U.S. Provisional Application No. 62/637,066 was filed on March 1, 2018 in the United States Patent and Trademark Office and PCT International Application No. PCT/US2019/020283 was filed on May 18, 2018, and for which U.S. Patent Application No. 16/678,686 was filed on November 8, 2019 in the United States Patent and Trademark Office; and

WHEREAS, EpiCypher, Inc., a Delaware corporation, having its principal place of business at 6 Davis Drive, Suite 755, Durham, North Carolina 27709, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer, and convey unto the said

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assignee, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues or other forms of protection thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted along with any term extensions thereon or therefor, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We hereby request that said Letters Patent be issued in accordance with this assignment.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to promptly communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives; and we hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without further compensation, but at the expense of said assignee or its representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 13th
day of 5/19, 2010.
Matthew F. Whelihan (SEAL)
STATE OF LABORT
COUNTY OF (Manufacture)
Before me personally appeared Matthew F. Whelihan, to me known to be the
person described in and who executed the foregoing instrument, and he acknowledged to
me that he executed the same for the purposes therein stated, this 13 day of
<u>Q</u>
Notary Public MARTHEW ZHIMENEZ
SEAL
My Commission Expires: $y/3/2z/1$