506147157 07/10/2020

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--|----------------|
| NIIGATA UNIVERSITY OF PHARMACY AND APPLIED LIFE SCIENCES | 07/02/2020 |
| NIIGATA UNIVERSITY | 07/02/2020 |

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PROPERTY NUMBERS Total: 1

| Property Type | Number |
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| Patent Number: | 9617538 |

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| ATTORNEY DOCKET NUMBER: | 2014-0209A |
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| NAME OF SUBMITTER: | PATRICIA T HILL |
| SIGNATURE: | /PATRICIA T HILL/ |
| DATE SIGNED: | 07/10/2020 |

Total Attachments: 2

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PATENT 506147157 REEL: 053170 FRAME: 0775

ASSIGNMENT

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS: Niigata University of Pharmacy and Applied Life Sciences

and

Niigata University

the owners of the entire right, title and interest in and to:

U.S. Patent No. 9.617,538, entitled "Heptamer-type small guide nucleic acids inducing apoptosis of human leukemia cells" issued on April 11, 2017,

hereby sell(s) and assign(s) to

ASSIGNEE:

Masayuki NASHIMOTO

2-7-36-2 Nishikobaridai, Nishi-ku Niigata, 950-2015, JAPAN

the entire right, title and interest for the United States of America as defined in 35 USC 100, in the inventions found in U.S. Patent No. 9.617.538 in and to, all Letters Patent to be obtained for said inventions by any continuation, division, reissue or reexamination of said United States Patents.

The ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

The ASSIGNORS further covenants that ASSIGNEE will, upon its request, be provided with all pertinent facts and documents relating to said invention and said application and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any proceeding related thereto, and that ASSIGNORS will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue, and enforce said application, said invention, any Letters Patent resulting from said application, and said equivalents thereof which may be necessary or desirable to carry out the purpose thereof;

The undersigned hereby grant(s) the firm of WENDEROTH, LIND & PONACK, L.L.P., 1025 Connecticut Avenue, N.W., Suite 500, Washington, D.C. 20036, 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 Office for recordal of this document.

Furthermore, the undersigned has reviewed all the documents in the chain of title of U.S. Patent No. 9.617.538 and, to the best of the undersigned's knowledge and belief, title is in the ASSIGNORS identified above.

PATENT REEL: 053170 FRAME: 0776

| On behalf of the ASSIGNOR, Niigata University of Pharmacy and Applied Life Sciences: | | |
|--|--|--|
| IN witness whereof, I/WE have hereunto set hand and seal this July 2, 2020 | | |
| (Date of signing) | | |
| FUMITAKE GE.JTO | | |
| (Signature of person authorized to sign on behalf of ASSIGNOR) | | |
| Fumitake Gejyo | | |
| (type or print the name of person who signs above) | | |
| Acting President | | |
| (Official Title of person who signs above) | | |
| Witness Juhi Ono | | |
| Witness Mai Hikita | | |
| On behalf of the ASSIGNOR, Niigata University: | | |
| IN witness whereof, I/WE have hereunto set hand and seal this | | |
| Tatu Ushli | | |
| (Signature of person authorized to sign on behalf of ASSIGNOR) | | |
| Tatsuo USHIKI | | |
| (type or print the name of person who signs above) | | |
| President | | |
| (Official Title of person who signs above) | | |
| Witness Juki Ono | | |
| Witness Mai Hikita | | |

Wenderoth Ref: 2014-0209A

RECORDED: 07/10/2020

PATENT REEL: 053170 FRAME: 0777