PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| CARL L.G. HANSEN | 12/17/2012 |
| VERONIQUE LECAULT | 11/07/2012 |
| JAMES M. PIRET | 10/22/2012 |
| ANUPAM SINGHAL | 12/17/2012 |

RECEIVING PARTY DATA

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| State/Country: | CANADA |
| Postal Code: | V6T 1Z3 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16897782 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | 2705-0012US06 | |
|-------------------------|------------------------|--|
| NAME OF SUBMITTER: | THOMAS A. CAWLEY JR. | |
| SIGNATURE: | / thomas a cawley jr / | |
| DATE SIGNED: | 07/19/2020 | |

Total Attachments: 6

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PATENT 506160462 REEL: 053247 FRAME: 0329

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ASSIGNMENT OF APPLICATION (JOINT)

Atty Docket No. SMAR-068CIP

THIS ASSIGNMENT, by Carl L. G. Hansen, Veronique Lecault, James M. Piret and Anupam Singhal (hereinafter referred to as the assignors), residing in Vancouver, BC, Canada, Vancouver, BC, Canada, Vancouver, BC, Canada and Mississauga, ON, Canada, respectively, witnesseth:

WHEREAS, the said assignors have invented certain new and useful improvements in:

"System and Method for Microfluidic Cell Culture"

X filed on September 28, 2012 as U.S. Application Serial No. 13/631,629.

WHEREAS, The University of British Columbia duly organized under and pursuant to the laws of Canada, and having its principal place of business at University – Industry Liaison Office, #103-6190 Agronomy Road, Vancouver, British Columbia V6T 1Z3 CANADA (hereinafter referred to as the assignee) is desirous of acquiring their right, title and interest in and to said invention and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW THEREFORE, for good and sufficient considerations, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the assignee, its successors, legal representatives and assigns, all of their right, title and interest in and to the above-mentioned invention, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and behalf and the use and behalf of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and that said 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, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said invention, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said invention in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, 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 Letters Patent for said invention, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said invention and the Letters Patent to be issued thereon for the use and behalf of said assignee, its successors, legal representatives and assigns.

| | ASSIGNMENT OF A | PPLICATION (JOINT) | | |
|----------------------------------|------------------|--------------------|----------------------|----------|
| | | | Atty Docket No. SMAR | ₹-068CIP |
| Date_[7/17/2017_ | | . G. Hansen | / | |
| Date | | que Lecault | | |
| Date | Name of Inventor | M. Piret | | |
| Date | | m Singhal | | |
| Hereby accepted on behalf of the | ssignee | | | |
| | • | | , | |
| Signature | | | | |
| Date | Name (pr | int) | | |
| Title and Company | | | | |

| | ASSIGNMENT | T OF APPLICATION (JOINT) | | |
|----------------------------------|------------------|--------------------------|--------------------|-----------|
| | · | | Atty Docket No. SM | AR-068CIP |
| | | · | | |
| Date | Name of Inventor | Carl L. G. Hansen | | |
| Date <u>Nov. 7</u> , 2012 | Name of Inventor | Veronique Lecault | | |
| Date | Name of Inventor | James M. Piret | · | |
| Date | Name of Inventor | Anupam Singhal | | |
| Hereby accepted on behalf of the | agaitam | | | |
| nercoy accepted on behalf of the | assignee | | | |
| Signature | | | • | • |
| Date | | Name (print) | | |
| Title and Company | | | | |

| | ASSIGNMENT | OF APPLICATION (JOINT) | | |
|------------------------------------|---------------------------------------|------------------------|---------------------------------------|----------|
| | | | Atty Docket No. SMA | R-068CIP |
| | | | | |
| Date | Name of Inventor | Carl L. G. Hansen | | |
| Date | Name of Inventor | Veronique Lecault | | |
| Date Oct 22, 2012 | Name of Inventor | James M. Piret | | |
| Date | Name of Inventor | Anupam Singhal | · · · · · · · · · · · · · · · · · · · | |
| However accounted on behalf of the | • | | • | |
| Hereby accepted on behalf of the | assignee | \$ | | |
| Signature | | | | |
| Signature . | | | | • |
| Date | | Name (print) | | |
| Title and Company | · · · · · · · · · · · · · · · · · · · | | | |

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| | | Atty Docket No. SMAR-068CIP |
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| Date | Name of Inventor | · |
| | Carl L. G. Hansen | |
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| Date | Name of Inventor | |
| 4 | Veronique Lecault | |
| | | • |
| Date | Name of Inventor | |
| Date | Name of Inventor Anupam Singhal | |
| ٠. | | · |
| Hereby accepted on behalf of the | assignee | • |
| | illlu. | |
| Signature | MARIO A. KASAPI | |
| Dec 18/12 | Associate Director University - Industry Liaison Office | |
| Date | Name (print) | |
| | The University of British Columbia | |
| Title and Company | | |

<u>Appendix</u>

U.S. Application No. 16/897,782 filed June 10 2020 (Atty. Dkt. No. 2705-0012US06)

PATENT REEL: 053247 FRAME: 0336

RECORDED: 07/19/2020