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PATENT ASSIGNMENT COVER SHEET

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

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PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 17559366 | |

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Total Attachments: 2

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PATENT REEL: 059601 FRAME: 0361

PTO Customer No.

22925

Pharmaceutical Patent
Attorneys, LLC

Assignment Of Application

| The unc | lersigned, hereafter referred to as the inventor(s), have invented certain new and |
|----------------|--|
| useful i | mprovements in: Fixed-Bed Bioreactor With Constant-Flow Pump / Tubing System |
| - | for which an application for a United States Patent was filed on, |
| | Application Serial Number |
| | for which an application for a United States Patent was filed on, |
| : | Application Serial Number |
| _X_ | for which an application for an International Patent Application was filed on 03 April |
| | 2017 Application Serial Number PCT/US2017/025681, |
| X | for which a United States Provisional Patent Application was filed on 14 April 2016, |
| | Application Serial Number <u>US62/322651</u> , |
| | for which an application for a United States Patent was executed on even date hercof |
| and | |
| Wherea | s, Trizell Ltd., of Sanderum House, Chinnor, OX39 4TW, UNITED KINGDOM, |
| herein r | eferred to as the "Assignee" is desirous of acquiring the entire right, title and interest |
| in the sa | ame: |
| Now, th | erefore, in consideration of the sum of good and valuable consideration the receipt and |
| | by of which is acknowledged by the inventor(s) by these presents do sell, assign and |
| | unto said Assignee the full and exclusive right to: (a) the said invention(s) world-wide, |
| and the | entire right, title and interest in and to any and all Patents which may be granted |
| therefor | e world-wide; (b) any related patent application(s) (e.g. reissue, continuation-in-part, |
| continu | ation, et cetera) and the entire right, title and interest in and to any and all patents which |
| may be | granted therefore; and (c) any and all patent applications and issued patents asserting |
| priority | to, or providing priority to, the aforementioned application(s), and the entire right, title |

PTO Customer No.

22925

Pharmaceutical Patent
Attorneys, LLC

and interest in and to any and all Patents which may be granted therefore. I/We hereby authorize and request the Director of Patent and Trademarks to issue said patents to said Assignee for sole use and benefit; and for the use and benefit of its legal representatives, to the full end of the term (including extensions) for which said patents may be granted, as fully and entirely as the same would have been held by me/us had this assignment and sale not be made. Executed as of the filing date of the captioned application by:

| Given Name | FAMILY NAME | Citizenship | Residence | Signature |
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