

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ANTHONY B. SCHRYVERS | 06/16/2017 |
| RECEIVING PARTY DATA | |
| Name: | ENGINEERED ANTIGENS INC. |
| Street Address: | 39 EDFORTH ROAD NW |
| City: | CALGARY |
| State/Country: | CANADA |
| Postal Code: | T3A 3V8 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15100867 |
| CORRESPONDENCE DATA | |
| Fax Number: | (416)361-1398 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
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| ATTORNEY DOCKET NUMBER: | 21806-P45290US02 |
| NAME OF SUBMITTER: | MICHELINE GRAVELLE |
| SIGNATURE: | /MICHELINE GRAVELLE/ |
| DATE SIGNED: | 06/27/2017 |
| Total Attachments: 3 | |
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| source=Assignment Schryvers#page3.tif | |

ASSIGNMENT

WHEREAS I, Anthony B. Schryvers, whose full post office address is 39 Edforth Road NW, Calgary, Alberta, T3A 3VN Canada, am an inventor of an invention entitled **Immunogenic Compositions and Vaccines Derived from Bacterial Surface Receptor Proteins** for which patent applications were filed as listed on Schedule A attached hereto,

AND WHEREAS Engineered Antigens Inc., whose full post office address is 39 Edforth Road NW, Calgary, Alberta, T3A 3VN Canada, has acquired from me my whole right, title and interest for the United States of America, Canada and all other countries in and to the said inventions and in and to any Letters Patent that may be obtained therefore, and in and to said applications,

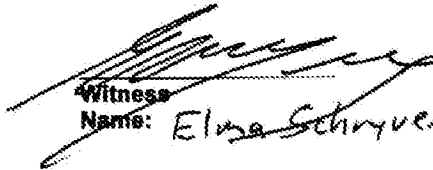
NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), the receipt of all of which is hereby acknowledged, I, **Anthony B. Schryvers**, by these presents confirm that I have sold, assigned and transferred and do hereby sell, assign and transfer unto the said **Engineered Antigens Inc.** my full and exclusive right, including all that in fact and in law corresponds, to the said inventions in the United States of America, Canada and all other countries and my entire right, title and interest in and to any and all Letters Patent which may be granted therefore, and my entire right, title and interest in and to said applications, and in and to any divisions, continuations, continuations-in-part, renewals, re-examinations and extensions of said applications and to any other patent applications and patents that claim priority from the aforementioned patent applications, together with my right to claim the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property based on said patent applications.

I, **Anthony B. Schryvers**, agree that I will without further consideration do all such things and execute all such documents as may be necessary or desirable to obtain and maintain patents for said inventions and for additions and modifications thereto in any and all countries, and to vest title thereto in said **Engineered Antigens Inc.** its successors, assigns and legal representatives or nominees.

I, **Anthony B. Schryvers**, hereby authorize and request the Commissioner of Patents and Trademarks in the U.S. and all other equivalent patent granting authorities in other jurisdictions to issue said Letters Patent to the said **Engineered Antigens Inc.** the assignee of my entire right, title and interest in and to the same, for its sole use and benefit, and for the use and benefit of its successors and assigns, to the full end of the term for which Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made.

The undersigned hereby grant the firm of **Bereskin & Parr** 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 and Trademark Office or other Patent Offices in the world for recordation of this document.

Signed this 16 day of June, 2017, at Calgary



Witness
Name: Elsa Schryvers

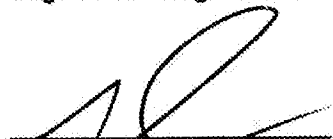

Anthony B. Schryvers

Assignee Acceptance:

Signed this 16 day of June, 2017, at Toronto

Engineered Antigens Inc.


Witness
Name: TREVOR MORAES


Signed for and on behalf of
Engineered Antigens Inc.
Title: Secretary

SCHEDULE A

Title: Immunogenic Compositions and Vaccines Derived from Bacterial Surface Receptor Proteins

| <i>Application No</i> | <i>Filing Date</i> | <i>Jurisdiction</i> |
|-----------------------|--------------------|---------------------|
| 61/910,817 | Dec 2, 2013 | United States |
| 62/007,068 | Jun 3, 2014 | United States |
| PCT/CA2014/051146 | Dec 1, 2014 | PCT |
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| 17103169.0 | Mar 28, 2017 | Hong Kong |
| 201627017595 | May 23, 2016 | India |
| 2016-535135 | May 28, 2016 | Japan |
| 721121 | Jun 23, 2016 | New Zealand |
| 10-2016-7017381 | Jun 28, 2016 | South Korea |
| 15/100,867 | June 1, 2016 | United States |