

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

| SUBMISSION TYPE:   | NEW ASSIGNMENT                |               |                               |                     |                  |                   |            |                |               |              |       |
|--|-------------------------------|---------------|-------------------------------|---------------------|------------------|-------------------|------------|----------------|---------------|--------------|-------|
| NATURE OF CONVEYANCE:  | ASSIGNMENT                    |               |                               |                     |                  |                   |            |                |               |              |       |
| CONVEYING PARTY DATA   |                               |               |                               |                     |                  |                   |            |                |               |              |       |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>William G. North</td> <td>01/07/2013</td> </tr> <tr> <td>Steven N. Fiering</td> <td>01/07/2013</td> </tr> </tbody> </table>  |                               | Name          | Execution Date                | William G. North    | 01/07/2013       | Steven N. Fiering | 01/07/2013 |                |               |              |       |
| Name   | Execution Date                |               |                               |                     |                  |                   |            |                |               |              |       |
| William G. North   | 01/07/2013                    |               |                               |                     |                  |                   |            |                |               |              |       |
| Steven N. Fiering  | 01/07/2013                    |               |                               |                     |                  |                   |            |                |               |              |       |
| RECEIVING PARTY DATA   |                               |               |                               |                     |                  |                   |            |                |               |              |       |
| <table border="1"> <tr> <td>Name:</td> <td>Trustees of Dartmouth College</td> </tr> <tr> <td>Street Address:</td> <td>11 Rope Ferry Rd</td> </tr> <tr> <td>City:</td> <td>Hanover</td> </tr> <tr> <td>State/Country:</td> <td>NEW HAMPSHIRE</td> </tr> <tr> <td>Postal Code:</td> <td>03755</td> </tr> </table>  |                               | Name:         | Trustees of Dartmouth College | Street Address:     | 11 Rope Ferry Rd | City:             | Hanover    | State/Country: | NEW HAMPSHIRE | Postal Code: | 03755 |
| Name:  | Trustees of Dartmouth College |               |                               |                     |                  |                   |            |                |               |              |       |
| Street Address:  | 11 Rope Ferry Rd              |               |                               |                     |                  |                   |            |                |               |              |       |
| City:  | Hanover                       |               |                               |                     |                  |                   |            |                |               |              |       |
| State/Country:   | NEW HAMPSHIRE                 |               |                               |                     |                  |                   |            |                |               |              |       |
| Postal Code:   | 03755                         |               |                               |                     |                  |                   |            |                |               |              |       |
| PROPERTY NUMBERS Total: 2  |                               |               |                               |                     |                  |                   |            |                |               |              |       |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>61563994</td> </tr> <tr> <td>PCT Number:</td> <td>US1266531</td> </tr> </tbody> </table>   |                               | Property Type | Number                        | Application Number: | 61563994         | PCT Number:       | US1266531  |                |               |              |       |
| Property Type  | Number                        |               |                               |                     |                  |                   |            |                |               |              |       |
| Application Number:  | 61563994                      |               |                               |                     |                  |                   |            |                |               |              |       |
| PCT Number:  | US1266531                     |               |                               |                     |                  |                   |            |                |               |              |       |
| CORRESPONDENCE DATA  |                               |               |                               |                     |                  |                   |            |                |               |              |       |
| <p>Fax Number: 8568101454<br/> <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 8568101515<br/>       Email: ssparkman@licataandtyrrell.com<br/>       Correspondent Name: Jane Massey Licata<br/>       Address Line 1: Licata &amp; Tyrrell P.C.<br/>       Address Line 2: 66 E. Main St<br/>       Address Line 4: Marlton, NEW JERSEY 08053</p> |                               |               |                               |                     |                  |                   |            |                |               |              |       |
| ATTORNEY DOCKET NUMBER:  | DC0496WO                      |               |                               |                     |                  |                   |            |                |               |              |       |
| NAME OF SUBMITTER:   | Jane Massey Licata            |               |                               |                     |                  |                   |            |                |               |              |       |
| <p>Total Attachments: 3<br/>       source=DC0496WO_asg#page1.tif<br/>       source=DC0496WO_asg#page2.tif<br/>       source=DC0496WO_asg#page3.tif</p>   |                               |               |                               |                     |                  |                   |            |                |               |              |       |

OP \$80.00 61563994

A S S I G N M E N T

WHEREAS, we, William G. North and Steven N. Fiering residing at 34 Low Road, Hanover, New Hampshire 03755 and residing at 647 Tuttle Hill Road, Orange, New Hampshire 03741, hereinafter referred to as the assignors, are inventors of certain inventions or improvements for which we have made application for Letters Patent of the United States, identified as Serial No. 61/563,994 filed on November 28, 2011 and through the Patent Cooperation Treaty, identified as Serial No. PCT/US2012/066531 filed November 26, 2012, entitled Method for Producing Human Monoclonal Immunoglobulin G Antibodies; and

WHEREAS, Trustees of Dartmouth College, hereinafter referred to as the assignee, of Hanover, New Hampshire, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said applications and any and all applications claiming the benefit of priority to the above identified applications and any and all continuations, divisions and renewals of and substitutes for said application or any other application based in whole or in part thereon and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees or legal representatives, and we agree to communicate to said assignee, or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patents of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

  
\_\_\_\_\_  
William G. North (L.S.)

State of NH :  
COUNTY OF Grafton : Signed and Sealed

On this 7th day of January, 201<sup>3</sup>, before me personally came the above named William G. North to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that

person's own free will for the use and purposes therein set forth.

Mary A Duval  
~~Notary Public~~  
Justice of the Peace My Commission expires  
02/16/2014

Steven N. Fiering (L.S.)

State of  
New Hampshire :  
COUNTY OF Grafton :

Signed and Sealed

On this 7th day of January, 201<sup>3</sup>, before me personally came the above named Steven N. Fiering to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Mary A Duval  
~~Notary Public~~  
Justice of the Peace My Commission expires  
02/16/2014