

PATENT ASSIGNMENT COVER SHEET

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| Name | Execution Date |
| ANGELA M. CHRISTIANO | 10/15/2015 |
| RAPHAEL CLYNES | 10/15/2015 |
| RECEIVING PARTY DATA | |
| Name: | THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK |
| Street Address: | 412 LOW MEMORIAL LIBRARY |
| Internal Address: | 535 WEST 116TH STREET |
| City: | NEW YORK |
| State/Country: | NEW YORK |
| Postal Code: | 10027 |
| PROPERTY NUMBERS Total: 1 | |
| | |
| Property Type | Number |
| Application Number: | 15668814 |
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| DATE SIGNED: | 02/08/2018 |
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| source=Re-Record Executed Assignment from 070050.4899 in 070050.5959#page2.tif | |

WORLDWIDE ASSIGNMENT

WHEREAS, I, **ANGELA M. CHRISTIANO**, a citizen of the United States, having a residence address at 2 Surrey Lane, Mahwah, NJ 07430 and **RAPHAEL CLYNES** a citizen of the United States, having a residence address at 231 Van Houten, West Nyack, NY 10994(hereinafter "**ASSIGNORS**"), have made an invention entitled "**METHODS FOR TREATING HAIR LOSS DISORDERS**" as set forth and described in United States Patent Application Serial No. **13/886,252** filed **May 2, 2013**; International Patent Application No. **PCT/US2013/034688** filed **March 29, 2013**; United States Provisional Patent Application No. **61/645,499**, filed **May 10, 2012**; United States Provisional Patent Application No. **61/617,225**, filed **March 29, 2012**; International Patent Application No. **PCT/US2011/059029** filed **November 2, 2011** and United States Provisional Patent Application No. **61/409,509**, filed **November 2, 2010**;

WHEREAS, **THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK** (hereinafter "**ASSIGNEE**"), having its principal place of business at **412 Low Memorial Library, 535 West 116th Street, New York, NY, 10027**, is desirous of acquiring our rights, title and interest in and to said application for Letters Patent, and any continuations, divisions, extensions, substitutions, reissues and reexaminations thereof;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that WE, the said **ASSIGNORS**, for and in consideration of valuable considerations unto us moving from said **ASSIGNEE**, at or before the ensealing and delivery of these presents, the receipt and sufficiency of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said **ASSIGNEE**, its successors and assigns, our rights, title and interest in and to the said invention entitled "**METHODS FOR TREATING HAIR LOSS DISORDERS**" and any and all improvements thereto, and in and to said application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, and in and to any other applications based in whole or in part on any of the foregoing, **TO HAVE AND TO HOLD THE SAME** to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND WE, the said **ASSIGNORS**, do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said **ASSIGNEE**, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said **ASSIGNEE**, its successors and assigns;

AND WE, the said **ASSIGNORS**, for the considerations aforesaid, do hereby covenant and agree to and with said **ASSIGNEE**, its successors and assigns, that we have power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that we, our executors or administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said **ASSIGNEE**, its successors and assigns, may be required or necessary more effectively to secure to and vest in said **ASSIGNEE**, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 15 day of October, 2015.



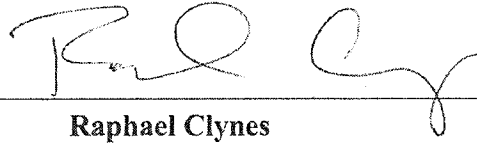
Angela M. Christiano

Witness Signature

Witness Name

070050.4899
PATENT

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 15th day of
October, 2015.



Raphael Clynes

Witness Signature

Witness Name