

10-26-2007

R

103456561

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**JOHN G. BRUNO  
JUDSON C. MINERAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**Execution Date(s) OCTOBER 10, 2007

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**Name: OTC BIOTECHNOLOGIES, LLCInternal Address: SUITE 230Street Address: 4100 N.W. LOOP 410City: SAN ANTONIOState: TEXASCountry: USA Zip: 78229Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**

A. Patent Application No.(s)

11/058,054

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: CLINE H. WHITEInternal Address: TUGGEY ROSENTHAL PAUERSTEIN  
SANDOLOSKI AGATHER LLPStreet Address: 755 EAST MULBERRY, STE. 200City: SAN ANTONIOState: TEXAS Zip: 78212Phone Number: (210) 225-5000Fax Number: (210) 354-4034Email Address: ip@trpsalaw.com**6. Total number of applications and patents involved: 1****7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☐ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☒ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_

Expiration Date \_\_\_\_\_

b. Deposit Account Number \_\_\_\_\_

Authorized User Name \_\_\_\_\_

**9. Signature:**

Signature

CLINE H. WHITE

Name of Person Signing

Date

Total number of pages including cover sheet, attachments, and documents: \_\_\_\_\_

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
 Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

PATENT

REEL: 020029 FRAME: 0205

10.25.07

 10/25/2007 11:05:05  
 01 FC: 021  
 40.00 0P

# PATENT ASSIGNMENT

WHEREAS, I, JOHN G. BRUNO ("ASSIGNOR"), a citizen of the United States, residing at 11410 Estufa Canyon, San Antonio, 78245, am an inventor of the U.S. patent application serial number 11/058,054 entitled "THERAPEUTIC NUCLEIC ACID-3' - CONJUGATES," filed February 15, 2005. (The invention and application/patent are hereinafter collectively referred to as the "INVENTION.")

WHEREAS, OTC Biotechnologies, LLC ("ASSIGNEE"), a Texas limited liability company, is desirous of obtaining the entire right, title and interest in, to and under the INVENTION.

NOW, THEREFORE, in consideration of the sum of One Hundred Dollars (\$100.00) to the said ASSIGNOR in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the INVENTION, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said INVENTION in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; all forms of industrial property protection, including, without limitation, patents, utility models and design which may be granted for said INVENTION in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and any and all causes of action thereto that may have heretofore accrued in ASSIGNOR's favor;

AND I HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisions, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

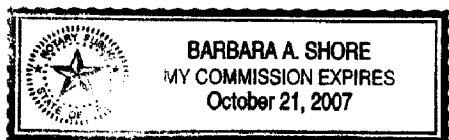
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 10<sup>th</sup> day of October, 2007.

John G. Bruno  
Inventor

STATE OF TEXAS                   §  
COUNTY OF Bexar           §  
  §

BEFORE ME, the undersigned authority, on this day personally appeared JOHN G. BRUNO, known to me to be the person of that name, who signed the foregoing instrument, and acknowledged the same to be his free act and deed.

Given under my hand and seal of office this 10<sup>th</sup> day of October, 2007.



Barbara A. Shore  
Notary Public State of Texas

# PATENT ASSIGNMENT

WHEREAS, I, JUDSON C. MINER ("ASSIGNOR"), a citizen of the United States, residing at 2339 Oak Castle, San Antonio, TX 78232, am an inventor of the U.S. patent application serial number 11/058,054 entitled "THERAPEUTIC NUCLEIC ACID-3' - CONJUGATES," filed February 15, 2005. (The invention and application/patent are hereinafter collectively referred to as the "INVENTION.")

WHEREAS, OTC Biotechnologies, LLC ("ASSIGNEE"), a Texas limited liability company, is desirous of obtaining the entire right, title and interest in, to and under the INVENTION.

NOW, THEREFORE, in consideration of the sum of One Hundred Dollars (\$100.00) to the said ASSIGNOR in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the INVENTION, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said INVENTION in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; all forms of industrial property protection, including, without limitation, patents, utility models and design which may be granted for said INVENTION in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and any and all causes of action thereto that may have heretofore accrued in ASSIGNOR's favor;

AND I HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisions, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

2007.

**Inventor**

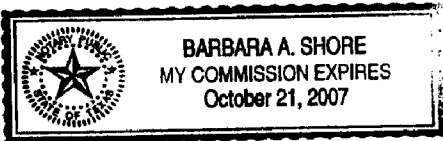
20

22

22

acknowledged the same to be his free act and deed.

Given under my hand and seal of office this 10<sup>th</sup> day of October, 2007.



Notary Public State of Texas