

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BELEW MEKONNEN	09/15/2016
JOHN A. BUTERA	09/15/2016
JIANXING HUANG	09/15/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HAGER BIOSCIENCES
<b>Street Address:</b>	116 RESEARCH DR., SUITE 265
<b>City:</b>	BETHLEHEM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	18015
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16428394
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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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<b>Correspondent Name:</b>	HALEY GUILIANO LLP
<b>Address Line 1:</b>	75 BROAD STREET, SUITE 1000
<b>Address Line 4:</b>	NEW YORK, NEW YORK 10004
<b>ATTORNEY DOCKET NUMBER:</b>	107042-0016-302
<b>NAME OF SUBMITTER:</b>	MARIA MARLEY
<b>SIGNATURE:</b>	/MARIA MARLEY/
<b>DATE SIGNED:</b>	05/31/2019
<b>Total Attachments: 6</b>	
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ASSIGNMENT

We, Belew Mekonnen, John A. Butera and Jianxing Huang, residing at 452 Windy Hill Rd., Gilbertsville, PA 19525, USA; 6 Lawrence Spring Rd., Clarksburg, NJ 08510, USA; and 532 2nd Ave, 2RR, Bethlehem, PA 18018, USA, for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to and do hereby assign, sell and transfer to HAGER BIOSCIENCES, a corporation organized and existing under the laws of the Commonwealth State of Pennsylvania and having an office and a place of business at 116 Research Dr., Suite 265, Bethlehem, PA 18015, USA, its successors and assigns (i) the entire right, title and interest in the United States and in all countries throughout the world in and to any and all our inventions and discoveries disclosed in the following applications:

- (i) United States Provisional Application No. 61/919,390, filed December 20, 2013 and entitled "BENZODIAZEPINE DERIVATIVES, COMPOSITIONS, AND METHODS FOR TREATING COGNITIVE IMPAIRMENT";
- (ii) United States Provisional Application No. 61/919,394, filed December 20, 2013 and entitled "BENZODIAZEPINE DERIVATIVES, COMPOSITIONS, AND METHODS FOR TREATING COGNITIVE IMPAIRMENT";
- (iii) United States Provisional Application No. 62/075,743, filed November 5, 2014 and entitled "BENZODIAZEPINE DERIVATIVES, COMPOSITIONS, AND METHODS FOR TREATING COGNITIVE IMPAIRMENT";
- (iv) An International Patent Application that claims priority to applications (i) to (iii) above, filed/to be filed under the Patent Cooperation Treaty in the United States Receiving Office (RO/US) on December 19, 2014<sup>\*</sup> and assigned serial number PCT/US2014/071644<sup>\*</sup> entitled "BENZODIAZEPINE

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<sup>\*</sup> We hereby authorize HAGER BIOSCIENCES to insert in this instrument the deposit date of the respective application when the date is known and the serial number of said application when HAGER BIOSCIENCES is officially notified thereof.

DERIVATIVES, COMPOSITIONS, AND METHODS FOR TREATING COGNITIVE IMPAIRMENT", designating all PCT member states, including Albania (AL), Algeria (DZ), Angola (AO), Antigua & Barbuda (AG), Armenia (AM), Australia (AU), Austria (AT), Azerbaijan (AZ), Bahrain (BH), Barbados (BB), Belarus (BY), Belgium (BE), Belize (BZ), Benin (BJ), Bosnia and Herzegovina (BA), Botswana (BW), Brazil (BR), Bulgaria (BG), Burkina Faso (BF), Brunei Darussalam (BN), Cameroon (CM), Canada (CA), Central African Republic (CF), Chad (TD), Chile (CL), China (CN), Colombia (CO), Comoros (KM), Congo (CG), Costa Rica (CR), Côte d'Ivoire (CI), Croatia (HR), Cuba (CU), Cyprus (CY), Czech Republic (CZ), Democratic People's Republic of Korea (KP), Denmark (DK), Dominica (DM), Dominican Republic (DO), Ecuador (EC), Egypt (EG), El Salvador (SV), Equatorial Guinea (GQ), Estonia (EE), Finland (FI), France (FR), Gabon (GA), Gambia (GM), Georgia (GE), Germany (DE), Ghana (GH), Greece (GR), Grenada (GD), Guatemala (GT), Guinea (GN), Guinea Bissau (GW), Honduras (HN), Hungary (HU), Iceland (IS), India (IN), Islamic Republic of Iran (IR), Indonesia (ID), Ireland (IE), Israel (IL), Italy (IT), Japan (JP), Kazakstan (KZ), Kenya (KE), Kyrgyzstan (KG), Lao People's Democratic Republic (LA), Latvia (LV), Lesotho (LS), Liberia (LR), Libya (LY), Liechtenstein (LI), Lithuania (LT), Luxembourg (LU), Madagascar (MG), Malawi (MW), Malaysia (MY), Mali (ML), Malta (MT), Mauritania (MR), Mexico (MX), Monaco (MC), Mongolia (MN), Montenegro (ME), Morocco (MA), Mozambique (MZ), Namibia (NA), Netherlands (NL), New Zealand (NZ), Nicaragua (NI), Niger (NE), Nigeria (NG), Norway (NO), Oman (OM), Panama (PA), Papua New Guinea (PG), Peru (PE), Philippines (PH), Poland (PL), Portugal (PT), Qatar (QA), Republic of Korea (KR), Republic of Moldova (MD), Romania (RO), Russian Federation (RU), Rwanda (RW), Saudi Arabia (SA), Saint Kitts and Nevis (KN), Saint Lucia (LC), Saint Vincent and the Grenadines (VC), San Marino (SM), Sao Tome and Principe (ST), Senegal (SN), Serbia (RS), Seychelles (SC), Sierra Leone (SL), Singapore (SG), Slovakia (SK), Slovenia (SI), South Africa (ZA), Spain (ES), Sri Lanka (LK), Sudan (SD), Swaziland (SZ), Sweden (SE), Switzerland (CH), Syrian Arab Republic (SY), Tajikistan (TJ), Thailand (TH), The former Yugoslav Republic of Macedonia (MK), Togo (TG), Trinidad and Tobago (TT), Tunisia (TN), Turkey (TR), Turkmenistan (TM), Uganda (UG), Ukraine (UA), United Arab Emirates (AE), United Kingdom (GB), United Republic of Tanzania (TZ), United States of America (US), Uzbekistan (UZ), Viet Nam (VN), Zambia (ZM) and Zimbabwe (ZW);

including any applications and patents claiming priority therefrom, and any renewals, revivals, reissues, reexaminations, extensions, supplementary protection certificates, continuations and divisions thereof, and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of HAGER BIOSCIENCES, its designee, or in our names at HAGER BIOSCIENCES or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent that claims priority therefrom in the United States or in any other country of the world and any renewals, revivals, reissues, reexaminations, supplementary protection certificates, and extensions of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to HAGER BIOSCIENCES as the assignee of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

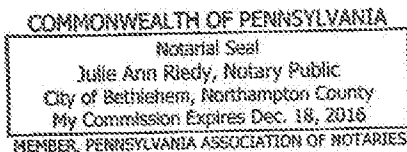
We agree, at any time, upon the request of HAGER BIOSCIENCES to execute and to deliver to HAGER BIOSCIENCES any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of HAGER BIOSCIENCES such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of HAGER BIOSCIENCES under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

ASSIGNOR:

Bel Mekonnen  
Belw Mekonnen (1)

On this 15<sup>th</sup> day of September, 2016, Belw Mekonnen (1) personally appeared before me, a Notary Public in and for the state of Pennsylvania, and executed the foregoing Assignment and duly acknowledged to me that such Assignment was executed for the uses and purposes therein expressed.

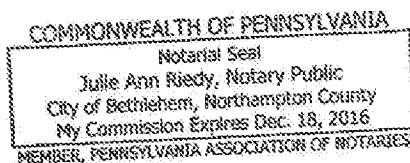


Julie Ann Riedy  
Notary Public

ASSIGNOR:

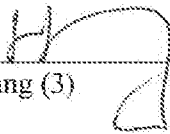
John A. Butera  
John A. Butera (2)

On this 15<sup>th</sup> day of September, 2016, John A. Butera (2) personally appeared before me, a Notary Public in and for the state of Pennsylvania, and executed the foregoing Assignment and duly acknowledged to me that such Assignment was executed for the uses and purposes therein expressed.

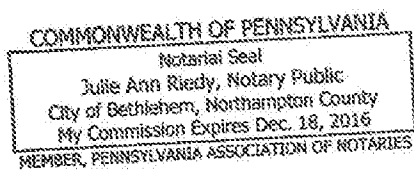


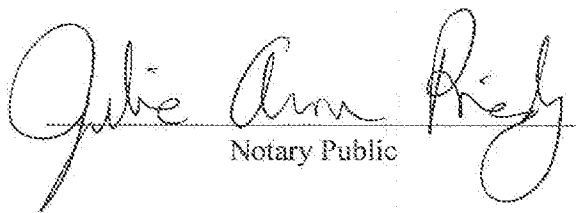
Julie Ann Riedy  
Notary Public

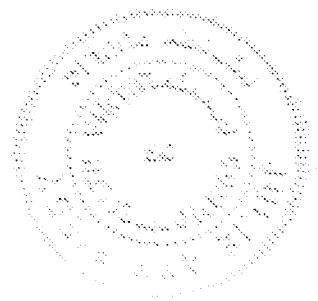
ASSIGNOR:

  
Jianxing Huang (3)

On this 15<sup>th</sup> day of September, 2016, Jianxing Huang (3) personally appeared before me, a Notary Public in and for the state of Pennsylvania, and executed the foregoing Assignment and duly acknowledged to me that such Assignment was executed for the uses and purposes therein expressed.



  
Notary Public

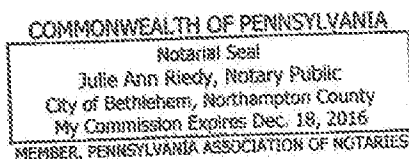


ACKNOWLEDGEMENT OF ASSIGNEE:

I hereby acknowledge the foregoing executed Assignment on behalf of  
HAGER BIOSCIENCES

By: Bel Mekonnen  
Name: Belew (Bel) Mekonnen  
Title: President & CEO

On this 15<sup>th</sup> day of September, 2016, Bel Mekonnen  
\_\_\_\_\_ personally appeared before me, a Notary Public in and for the state of Pennsylvania  
\_\_\_\_\_, and duly acknowledged the executed Assignment on behalf of the Assignee.



Julie Ann Riedy  
Notary Public

