PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3974643

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|--------------------|
| NATURE OF CONVEYANCE: | SECURITY AGREEMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--|----------------|
| THE TEACHERS' RETIREMENT SYSTEM OF ALABAMA | 06/12/2015 |

RECEIVING PARTY DATA

| Name: | SIO2 MEDICAL PRODUCTS, INC. |
|-----------------|-----------------------------|
| Street Address: | 2250 RILEY STREET |
| City: | AUBURN |
| State/Country: | ALABAMA |
| Postal Code: | 36822 |

PROPERTY NUMBERS Total: 20

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13520037 |
| Application Number: | 14400079 |
| Application Number: | 13941154 |
| Application Number: | 14305202 |
| Application Number: | 13805835 |
| Application Number: | 13894984 |
| Application Number: | 14015820 |
| Application Number: | 14604634 |
| Application Number: | 14511352 |
| Application Number: | 14085749 |
| Application Number: | 14194221 |
| Application Number: | 14205329 |
| Application Number: | 14357418 |
| Application Number: | 14214030 |
| Application Number: | 13436252 |
| Application Number: | 14412472 |
| Application Number: | 14399678 |
| Application Number: | 14404521 |
| Application Number: | 13211917 |
| Application Number: | 13651299 |
| | |

PATENT REEL: 039431 FRAME: 0327

503927989

CORRESPONDENCE DATA

Fax Number: (205)254-1999

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.

Phone: 205-254-1036

Email: tebbert@maynardcooper.com
Correspondent Name: C. BRANDON BROWNING
Address Line 1: 1901 SIXTH AVENUE NORTH

Address Line 2: SUITE 2400

Address Line 4: BIRMINGHAM, ALABAMA 35203

| NAME OF SUBMITTER: | C. BRANDON BROWNING |
|--------------------|---------------------|
| SIGNATURE: | /cbbrowning/ |
| DATE SIGNED: | 07/22/2016 |

Total Attachments: 9

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PATENT SECURITY AGREEMENT AMENDMENT

THIS PATENT SECURITY AGREEMENT AMENDMENT ("this Amendment") dated as of June 12 ______, 20_15 is entered into by and among each party identified on the signature page of this Agreement (collectively referred to herein as "Grantors" and individually as a "Grantor") in favor of THE TEACHERS' RETIREMENT SYSTEM OF ALABAMA, an instrumentality of the State of Alabama ("TRS"), in its capacity as Agent ("Agent") for the Lenders (as defined below) under that certain Master Loan Agreement dated as of March 15, 2012 (as amended or supplemented from time to time, the "Loan Agreement") by and among SiO₂ Medical Products, Inc., a Delaware corporation ("Borrower"), TRS, as such Agent for itself and the other lenders party to the Loan Agreement (collectively, the "Lenders").

Recitals

- A. The Grantors have heretofore entered into a Patent Security Agreement dated as of March 15, 2012 (as amended, restated or supplemented from time to time, the "Security Agreement"), pursuant to which the Grantors secured the Secured Obligations to the Lenders with the Patent Collateral.
- B. The Grantors and the Agent now desire to amend the Security Agreement in certain respects, as hereinafter set forth.

Agreement

NOW, THEREFORE, in consideration of the foregoing recitals and of the mutual agreements of the parties hereto, the Security Agreement is hereby amended as follows:

- 1. <u>Definitions</u>. Capitalized terms used in this Amendment and not otherwise defined herein have the respective meanings attributed thereto in the Security Agreement.
- 2. Amendment to Security Agreement. Effective as of the date hereof, Exhibit A attached to the Security Agreement is hereby revised to include the Patents referenced in the Amendment to Exhibit A attached hereto. Each of the Grantors acknowledges, agrees, ratifies and reaffirms the grant to the Agent of a first-priority security interest in and lien upon the Patent Collateral and acknowledges, agrees and reaffirms that the Secured Obligations are secured by a properly perfected, first-priority security interest in and lien upon the Patent Collateral, including, but not limited to, the Patents described in the Amendment to Exhibit A attached hereto and each of the Grantors hereby, as security for the Secured Obligations, grants to the Agent security title to and a continuing security interest in, and assigns, transfers, conveys, pledges and sets over to the Agent all of the Grantors' right, title and interest in, to and under all Patents described in such Amendment to Exhibit A, as further amended or modified from time to time.

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3. Miscellaneous.

- (a) Except as amended hereby, the Security Agreement shall continue in full force and effect.
- (b) Each of the Grantors hereby represents and warrants to the Agent that all representations and warranties contained in the Security Agreement are true and correct as of the date hereof (except representations and warranties that are expressly limited to an earlier date); and each of the Grantors hereby certifies that no Event of Default nor any event that, upon notice or lapse of time or both, would constitute an Event of Default, has occurred and is continuing.
- (c) This Amendment may be executed in one or more counterparts, each of which shall be deemed an original, and all of which when taken together shall constitute one and the same instrument.
- (d) The covenants and agreements contained herein shall apply to and inure to the benefit of and be binding upon the parties hereto and their respective successors and permitted assigns.
- (e) Nothing contained herein shall be construed as a waiver, acknowledgment or consent to any breach of or Event of Default under the Security Agreement and other related documents not specifically mentioned herein, and the consents granted herein are effective only in the specific instance and for the purposes for which given.
 - (f) This Amendment shall be governed by the laws of the State of Alabama.

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IN WITNESS WHEREOF, the Grantors and the Agent have caused this Amendment to be executed and delivered by their duly authorized representatives as of the date set forth above.

GRANTORS:

SiO2 MEDICAL PRODUCTS, INC.

Title: President

Robert S. Abrams

| Grantor | Patent Number | Jurisdiction where | Application Number |
|-----------------------------|---------------|-----------------------|--------------------|
| | | Registered | |
| SiO2 Medical Products, Inc. | | Australia | 2010249031 |
| SiO2 Medical Products, Inc. | | Australia | 2013202893 |
| SiO2 Medical Products, Inc. | | Brazil | PI10105697 |
| SiO2 Medical Products, Inc. | | Canada | 2761905 |
| SiO2 Medical Products, Inc. | | China | 201080029201.4 |
| SiO2 Medical Products, Inc. | | Europe | 10162758.6 |
| SiO2 Medical Products, Inc. | | Hong Kong | 12110442.9 |
| SiO2 Medical Products, Inc. | | Israel | 215913 |
| SiO2 Medical Products, Inc. | | India | 9646DELNP2011 |
| SiO2 Medical Products, Inc. | | Japan | 2012-510982 |
| SiO2 Medical Products, Inc. | | South Korea | 1020117028713 |
| SiO2 Medical Products, Inc. | | Mexico | MXa2011012042 |
| SiO2 Medical Products, Inc. | 596997 | New Zealand | 596997 |
| SiO2 Medical Products, Inc. | 2523773 | Russia | 2011150519 |
| SiO2 Medical Products, Inc. | 176011 | Singapore | 201108311-0 |
| SiO2 Medical Products, Inc. | | Thailand | 1101003095 |
| SiO2 Medical Products, Inc. | | Taiwan | 100128240 |
| SiO2 Medical Products, Inc. | 201107871 | South Africa | 201107871 |
| SiO2 Medical Products, Inc. | 201207881 | South Africa | 201207881 |
| SiO2 Medical Products, Inc. | 2521675 | Europe | 11732135.6 |
| SiO2 Medical Products, Inc. | 8627970 | United States | 13520037 |
| SiO2 Medical Products, Inc. | | Australia | 2010249033 |
| SiO2 Medical Products, Inc. | | Australia | 2013202591 |
| SiO2 Medical Products, Inc. | | Brazil | 1012173-0 |
| SiO2 Medical Products, Inc. | | Canada | 2761872 |

PATEN dated: 6/9/2015

| Grantor | Patent Number | Jurisdiction where | Application Number |
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| | | Registered | |
| SiO2 Medical Products, Inc. | | China | 201080029199.0 |
| SiO2 Medical Products, Inc. | | Europe | 10162761.0 |
| SiO2 Medical Products, Inc. | | Hong Kong | 12110441.0 |
| SiO2 Medical Products, Inc. | | Israel | 215914 |
| SiO2 Medical Products, Inc. | | India | 9578DELNP2011 |
| SiO2 Medical Products, Inc. | | Japan | 2012510983 |
| SiO2 Medical Products, Inc. | | South Korea | 1020117028718 |
| SiO2 Medical Products, Inc. | | Mexico | MXa2011012038 |
| SiO2 Medical Products, Inc. | | Maylasia | PI2011005489 |
| SiO2 Medical Products, Inc. | 596239 | New Zealand | 596239 |
| SiO2 Medical Products, Inc. | | New Zealand | 626193 |
| SiO2 Medical Products, Inc. | | Russia | 2011150499 |
| SiO2 Medical Products, Inc. | 176008 | Singapore | 201108308-6 |
| SiO2 Medical Products, Inc. | | Singapore | 10201402278V |
| SiO2 Medical Products, Inc. | | Thailand | 1101003096 |
| SiO2 Medical Products, Inc. | 201107835 | South Africa | 201107835 |
| SiO2 Medical Products, Inc. | 2251454 | Europe | 10162760.2 |
| SiO2 Medical Products, Inc. | | Europe | 13183579.5 |
| SiO2 Medical Products, Inc. | | Europe | 14177456.2 |
| SiO2 Medical Products, Inc. | | Canada | 2799213 |
| SiO2 Medical Products, Inc. | | China | 201180023474.2 |
| SiO2 Medical Products, Inc. | | Europe | 11731554.9 |
| SiO2 Medical Products, Inc. | | Japan | 2013510276 |
| SiO2 Medical Products, Inc. | | United States | 13697048 |
| SiO2 Medical Products, Inc. | | Canada | 2887367 |

PATEN dated: 6/9/2015

| Grantor | Patent Number | Jurisdiction where | Application Number |
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| | | Registered | |
| SiO2 Medical Products, Inc. | | China | 201380024057.9 |
| SiO2 Medical Products, Inc. | | Europe | 13726337.2 |
| SiO2 Medical Products, Inc. | | Japan | 2015511708 |
| SiO2 Medical Products, Inc. | | United States | 14400079 |
| SiO2 Medical Products, Inc. | | Argentina | 20110102901 |
| SiO2 Medical Products, Inc. | | Brazil | 1120120288970 |
| SiO2 Medical Products, Inc. | | Canada | 2799220 |
| SiO2 Medical Products, Inc. | | China | 201180023461.5 |
| SiO2 Medical Products, Inc. | | Europe | 11722664.7 |
| SiO2 Medical Products, Inc. | | Hong Kong | 13107629.9 |
| SiO2 Medical Products, Inc. | | Israel | 222932 |
| SiO2 Medical Products, Inc. | | India | 9844DELNP2012 |
| SiO2 Medical Products, Inc. | | Japan | 2013-510325 |
| SiO2 Medical Products, Inc. | | South Korea | 1020127032502 |
| SiO2 Medical Products, Inc. | | Mexico | MXa2012013129 |
| SiO2 Medical Products, Inc. | | New Zealand | 603471 |
| SiO2 Medical Products, Inc. | | Russia | 2012153671 |
| SiO2 Medical Products, Inc. | | Singapore | 201208307-7 |
| SiO2 Medical Products, Inc. | | Thailand | 1201005901 |
| SiO2 Medical Products, Inc. | 7985188 | United States | 12779007 |
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| SiO2 Medical Products, Inc. | | United States | 14305202 |
| SiO2 Medical Products, Inc. | 201208501 | South Africa | 201208501 |
| SiO2 Medical Products, Inc. | | wo | PCTUS2013067852 |

PATEN pdated: 6/9/2015

| Grantor | Patent Number | Jurisdiction where | Application Number |
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| SiO2 Medical Products, Inc. | 1 | Registered Canada | 2803613 |
| oroz Medicar Froducts, Inc. | | Canada | 2000010 |
| SiO2 Medical Products, Inc. | | China | 201180032145.4 |
| SiO2 Medical Products, Inc. | | Europe | 11730526.8 |
| SiO2 Medical Products, Inc. | | Japan | 2013518657 |
| SiO2 Medical Products, Inc. | | United States | 13805835 |
| SiO2 Medical Products, Inc. | | United States | 13894984 |
| SiO2 Medical Products, Inc. | | wo | PCTUS2014016370 |
| SiO2 Medical Products, Inc. | | wo | PCTUS2014039267 |
| SiO2 Medical Products, Inc. | | wo | PCTUS2014043810 |
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| SiO2 Medical Products, Inc. | | United States | 14511352 |
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| SiO2 Medical Products, Inc. | | Europe | 10162756 |
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| SiO2 Medical Products, Inc. | | United States | 62048725 |
| SiO2 Medical Products, Inc. | | United States | 62145902 |
| SiO2 Medical Products, Inc. | | United States | 62127308 |
| SiO2 Medical Products, Inc. | | United States | 62127311 |
| SiO2 Medical Products, Inc. | | United States | 62079032 |
| SiO2 Medical Products, Inc. | | WO | PCTUS2013070325 |

PATEN dated: 6/9/2015

| SiO2 Medical Products, Inc. WO PCTUS2013071752 | Grantor | Patent Number | Jurisdiction where | Application Number |
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| SiO2 Medical Products, Inc. | SiO2 Medical Products. Inc. | | Registered WO | PCTUS2013071752 |
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| SiO2 Medical Products, Inc. WO PCTUS2014019684 | SiO2 Medical Products, Inc. | | United States | 14085749 |
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| SiO2 Medical Products, Inc. WO PCTUS2014023813 SiO2 Medical Products, Inc. United States 14205329 SiO2 Medical Products, Inc. United States 62127313 SiO2 Medical Products, Inc. United States 62128552 SiO2 Medical Products, Inc. Australia 2012318242 SiO2 Medical Products, Inc. Canada 2855353 SiO2 Medical Products, Inc. Europe 12848314.6 SiO2 Medical Products, Inc. Japan 2014541335 SiO2 Medical Products, Inc. United States 14357418 SiO2 Medical Products, Inc. WO PCTUS2014029531 SiO2 Medical Products, Inc. WO PCTUS2014029531 SiO2 Medical Products, Inc. WO PCTUS2015022189 SiO2 Medical Products, Inc. WO PCTUS2014032919 SiO2 Medical Products, Inc. United States 62080427 SiO2 Medical Products, Inc. United States 13436252 SiO2 Medical Products, Inc. Canada 2805668 SiO2 Medical Products, Inc. China 201180034947.9 | SiO2 Medical Products, Inc. | | WO | PCTUS2014019684 |
| SiO2 Medical Products, Inc. | SiO2 Medical Products, Inc. | | United States | 14194221 |
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| | SiO2 Medical Products, Inc. | | Canada | 2805668 |
| SiO2 Medical Products, Inc. Europe 11736511.4 | SiO2 Medical Products, Inc. | | China | 201180034947.9 |
| , | SiO2 Medical Products, Inc. | | Europe | 11736511.4 |

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| Grantor | Patent Number | Jurisdiction where | Application Number |
|-----------------------------|---------------|-----------------------|--------------------|
| SiO2 Medical Products, Inc. | | Registered Europe | 15157416.7 |
| SiO2 Medical Products, Inc. | | Japan | 2013519852 |
| SiO2 Medical Products, Inc. | | United States | 13809455 |
| SiO2 Medical Products, Inc. | | Canada | 2830226 |
| SiO2 Medical Products, Inc. | | China | 201280012511.4 |
| SiO2 Medical Products, Inc. | | Europe | 12757698.1 |
| SiO2 Medical Products, Inc. | | Japan | 2013558140 |
| SiO2 Medical Products, Inc. | | United States | 14003095 |
| SiO2 Medical Products, Inc. | 2251453 | | 10162757.8 |
| ŕ | 2251455 | Europe | |
| SiO2 Medical Products, Inc. | | Canada | 2878638 |
| SiO2 Medical Products, Inc. | | China | 201380045837.1 |
| SiO2 Medical Products, Inc. | | Europe | 13737503.6 |
| SiO2 Medical Products, Inc. | | Japan | 2015520596 |
| SiO2 Medical Products, Inc. | | United States | 14412472 |
| SiO2 Medical Products, Inc. | | Canada | 2887352 |
| SiO2 Medical Products, Inc. | | United States | 14399678 |
| SiO2 Medical Products, Inc. | | Japan | 2015515247 |
| SiO2 Medical Products, Inc. | | United States | 14404521 |
| SiO2 Medical Products, Inc. | | United States | 62129705 |
| SiO2 Medical Products, Inc. | | United States | 13211917 |
| SiO2 Medical Products, Inc. | | United States | 13240797 |
| SiO2 Medical Products, Inc. | | United States | 13651299 |
| SiO2 Medical Products, Inc. | | United States | 62147430 |
| SiO2 Medical Products, Inc. | | United States | 62155090 |
| SiO2 Medical Products, Inc. | | United States | 62159720 |
| C.O. Modical Froducts, Inc. | | Jintod Otatos | 02100720 |

PATEM@ated: 6/9/2015 REEL: 039431 FRAME: 0337

RECORDED: 07/22/2016