

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7086473

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
SIO2 MEDICAL PRODUCTS, INC.	12/21/2021

RECEIVING PARTY DATA

Name:	OAKTREE FUND ADMINISTRATION, LLC
Street Address:	333 S. GRAND AVENUE, 28TH FL.
Internal Address:	ATTN: OAKTREE AGENCY
City:	LOS ANGELES
State/Country:	CALIFORNIA
Postal Code:	90071

PROPERTY NUMBERS Total: 111

Property Type	Number
Patent Number:	8627970
Application Number:	16518480
Patent Number:	7985188
Patent Number:	8834954
Patent Number:	8512796
Patent Number:	9572526
Patent Number:	10390744
Patent Number:	10537273
Patent Number:	9664626
Patent Number:	9381687
Application Number:	15200944
Patent Number:	9345846
Patent Number:	10327986
Patent Number:	10780021
Patent Number:	9952147
Patent Number:	9855577
Patent Number:	10258718
Patent Number:	10561795
Patent Number:	10850042

PATENT

Property Type	Number
Application Number:	17107241
Patent Number:	10639421
Patent Number:	10899053
Application Number:	63120052
Patent Number:	9903782
Patent Number:	9764093
Patent Number:	10201660
Patent Number:	10363370
Application Number:	16521207
Patent Number:	9981794
Patent Number:	10807781
Patent Number:	9662450
Patent Number:	9554968
Patent Number:	10016338
Patent Number:	10912714
Application Number:	16121046
Application Number:	17150841
Patent Number:	10189603
Application Number:	16806589
Patent Number:	10577154
Patent Number:	9863042
Patent Number:	11066745
Application Number:	17340844
Application Number:	16092124
Patent Number:	9272095
Patent Number:	9475225
Patent Number:	10059047
Application Number:	14412472
Application Number:	17306621
Patent Number:	9545360
Patent Number:	D870278
Patent Number:	10765812
Patent Number:	10918800
Application Number:	17248972
Patent Number:	9937099
Patent Number:	10537494
Patent Number:	9878101
Application Number:	15824775

Property Type	Number
Patent Number:	9458536
Application Number:	15536811
Application Number:	15570571
Patent Number:	11077233
Application Number:	62886494
Patent Number:	10925927
Application Number:	17154702
Application Number:	15777279
Application Number:	17290226
Application Number:	17042745
Application Number:	15776728
Application Number:	16448689
Application Number:	63120013
Application Number:	17420914
Application Number:	17293844
Application Number:	16615969
Application Number:	16616310
Application Number:	17309723
Application Number:	16756525
Application Number:	17268884
Application Number:	29708593
Application Number:	17046679
Application Number:	17425361
Application Number:	17311540
Application Number:	29712182
Application Number:	29712186
Application Number:	29712187
Application Number:	63116557
Application Number:	63152799
Application Number:	63064831
Application Number:	63197606
Application Number:	63080675
Application Number:	63109232
Application Number:	63113808
Application Number:	63168580
Application Number:	63087172
Application Number:	63165664
Application Number:	63125231

Property Type	Number
Application Number:	63123099
Application Number:	63128002
Application Number:	63133604
Application Number:	63130299
Application Number:	63134147
Application Number:	63229890
Application Number:	63231366
Application Number:	63140783
Application Number:	63187385
Application Number:	63215879
Application Number:	63191909
Application Number:	63192547
Application Number:	63213698
Application Number:	63214110
Application Number:	63217754
Application Number:	63222394

CORRESPONDENCE DATA

Fax Number: (212)291-9868

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: (212) 558-4229

Email: demarcor@sullcrom.com, nguyenb@sullcrom.com

Correspondent Name: RAFFAELE A. DEMARCO

Address Line 1: 125 BROAD STREET

Address Line 2: SULLIVAN & CROMWELL LLP

Address Line 4: NEW YORK, NEW YORK 10004-2498

ATTORNEY DOCKET NUMBER: 018392.00083 (RAD)

NAME OF SUBMITTER: RAFFAELE A. DEMARCO

SIGNATURE: /Raffaele A. DeMarco/

DATE SIGNED: 12/21/2021

Total Attachments: 22

source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page1.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page2.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page3.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page4.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page5.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page6.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page7.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page8.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page9.tif

source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page10.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page11.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page12.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page13.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page14.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page15.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page16.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page17.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page18.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page19.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page20.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page21.tif
source=SIO2 - Patent Security Agreement (Executed) (4869-3620-0199.1)#page22.tif

PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT, dated as of December 21, 2021 (“**Patent Security Agreement**”), made by each of the signatories hereto (the “**Patent Grantors**”), is in favor of Oaktree Fund Administration, LLC, as administrative agent for the Secured Parties (in such capacity, together with its successors and assigns, the “**Administrative Agent**”).

W I T N E S S E T H:

WHEREAS, the Patent Grantors are party to a Security Agreement dated as of December 21, 2021 (the “**Security Agreement**”) in favor of the Administrative Agent, pursuant to which the Patent Grantors are required to execute and deliver this Patent Security Agreement (capitalized terms used but not otherwise defined herein shall have the meanings given to them in the Security Agreement);

WHEREAS, pursuant to the terms of the Security Agreement, each Patent Grantor has created in favor of the Administrative Agent a security interest in, and the Administrative Agent has become a secured creditor with respect to, the Patent Collateral (as defined below);

NOW, THEREFORE, in consideration of the premises and to induce the Administrative Agent and the Lenders to enter into the Credit Agreement and to induce the Lenders to make their respective extensions of credit to the Borrower thereunder, each Patent Grantor hereby grants to the Administrative Agent, for itself and on behalf of and for the ratable benefit of the other Secured Parties, a security interest in and to all of the following property now owned or at any time hereafter acquired by such Patent Grantor or in which such Patent Grantor now has or at any time in the future may acquire any right, title or interest (collectively, the “**Patent Collateral**”), as collateral security for the complete payment and performance when due (whether at the stated maturity, by acceleration or otherwise) of all Secured Obligations:

(a) all Patents of such Patent Grantor, including, without limitation, the registered and applied-for Patents of such Grantor listed on **Schedule 1** attached hereto;

(b) to the extent not covered by **clause (a)**, all Proceeds of any of the foregoing;
and

(c) to the extent not covered by **clause (a)**, all causes of action arising prior to or after the date hereof for infringement of any of the Patents.

The security interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interest granted to the Administrative Agent pursuant to the Security Agreement, and the Patent Grantors hereby acknowledge and affirm that the rights and remedies of the Administrative Agent with respect to the security interest in the Patents made and granted hereby are more fully set forth in the Security Agreement. In the event that any provision of this Patent Security Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall govern.

Each Patent Grantor hereby authorizes and requests that the Commissioner of Patents record this Patent Security Agreement.

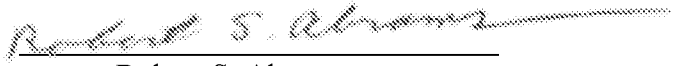
THIS PATENT SECURITY AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES UNDER THIS PATENT SECURITY AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED AND INTERPRETED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK.

This Patent Security Agreement may be executed by one or more of the parties to this Patent Security Agreement on any number of separate counterparts, and all of said counterparts taken together shall be deemed to constitute one and the same instrument. Delivery of an executed signature page of this Patent Security Agreement by facsimile transmission or electronic transmission (in PDF format) shall be effective as delivery of a manually executed counterpart hereof.

[Remainder of This Page Intentionally Left Blank.]

IN WITNESS WHEREOF, each Patent Grantor has caused this PATENT SECURITY AGREEMENT to be executed and delivered by its duly authorized officer as of the date first above written.

SiO2 MEDICAL PRODUCTS, INC.

By: 
Name: Robert S. Abrams
Title: Chief Executive Officer

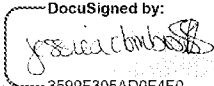
Address: 2250 Riley Street
Auburn, AL 36822

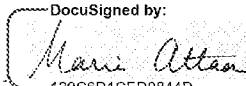
Accepted and Agreed:

OAKTREE FUND ADMINISTRATION, LLC,
as Agent

By: Oaktree Capital Management, L.P.

Its: Managing Member

By: 
Name: Jessica Dombroff
Title: Vice President

By: 
Name: Maria Attar
Title: Vice President

Address for Notices:

Oaktree Fund Administration, LLC
333 S. Grand Avenue, 28th Fl.
Los Angeles, CA 90071
Attn: Oaktree Agency
Email: Oaktreeagency@alterdomus.com

With a copy to:

Oaktree Capital Management, L.P.
333 S. Grand Avenue, 28th Fl.
Los Angeles, CA 90071
Attn: Aman Kumar
Email: AmKumar@oaktreecapital.com

PATENTS

Patents and Patent Applications

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0002AU	Outgassing Method for Inspecting a Coated Surface	2010249031 28-Jan-2016	Australia	Issued
SIO-0002BR	Outgassing Method for Inspecting a Coated Surface	1010569-7 08-Oct-2019	Brazil	Issued
SIO-0002CA	Outgassing Method for Inspecting a Coated Surface	2761905 28-Nov-2017	Canada	Issued
SIO-0002CH	Outgassing Method for Inspecting a Coated Surface	2251671 26-Apr-2017	Switzerland	Issued
SIO-0002DE	Outgassing Method for Inspecting a Coated Surface	2251671 26-Apr-2017	Germany	Issued
SIO-0002EP	Outgassing Method for Inspecting a Coated Surface	2251671 26-Apr-2017	Europe	Issued
SIO-0002FR	Outgassing Method for Inspecting a Coated Surface	2251671 26-Apr-2017	France	Issued
SIO-0002GB	Outgassing Method for Inspecting a Coated Surface	2251671 26-Apr-2017	Great Britain	Issued
SIO-0002IL	Outgassing Method for Inspecting a Coated Surface	215913 01-Nov-2016	Israel	Issued
SIO-0002JP	Outgassing Method for Inspecting a Coated Surface	5710600 13-Mar-2015	Japan	Issued
SIO-0002MX	Outgassing Method for Inspecting a Coated Surface	350703 14-Sep-2017	Mexico	Issued
SIO-0002NZ	Outgassing Method for Inspecting a Coated Surface	596997 01-Jul-2014	New Zealand	Issued
SIO-0002RU	Outgassing Method for Inspecting a Coated Surface	2523773 28-May-2014	Russia	Issued
SIO-0002SG	Outgassing Method for Inspecting a Coated Surface	176011 20-Jun-2014	Singapore	Issued
SIO-0002TH	Outgassing Method for Inspecting a Coated Surface	64371 23-Aug-2018	Thailand	Issued
SIO-0002ZA	Outgassing Method for Inspecting a Coated Surface	201107871 29-May-2013	South Africa	Issued
SIO-0002ZA2	Outgassing Method for Inspecting a Coated Surface	201207881 26-Jun-2013	South Africa	Issued
SIO-0003CH	Closure with Shield, Stopper, and Pusher, and Method for Making the Same	2521675 14-May-2014	Switzerland	Issued
SIO-0003DE	Closure with Shield, Stopper, and Pusher, and Method for Making the Same	11732135.6 06-Jan-2011	Germany	Issued
SIO-0003EP	Closure with Shield, Stopper, and Pusher, and Method for Making the Same	2521675 14-May-2014	Europe	Issued
SIO-0003FR	Closure with Shield, Stopper, and Pusher, and Method for Making the Same	2521675 14-May-2014	France	Issued
SIO-0003GB	Closure with Shield, Stopper, and Pusher, and Method for Making the Same	2521675 14-May-2014	Great Britain	Issued
SIO-0003US	Closure with Shield, Stopper, and Pusher, and Method for Making the Same	8627970 14-Jan-2014	United States	Issued

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0004AU	PECVD Coating Using an Organosilicon Precursor	2010249033 10-Nov-2016	Australia	Issued
SIO-0004BR	PECVD Coating Using an Organosilicon Precursor	1012173-0 16-May-2021	Brazil	Issued
SIO-0004CA	PECVD Coating Using an Organosilicon Precursor	2761872 12-May-2010	Canada	Allowed
SIO-0004CH	PECVD Coating Using an Organosilicon Precursor	2251455 06-Sep-2017	Switzerland	Issued
SIO-0004CN	PECVD Coating Using an Organosilicon Precursor	102459693 25-Nov-2015	China	Issued
SIO-0004DE	PECVD Coating Using an Organosilicon Precursor	2251455 06-Sep-2017	Germany	Issued
SIO-0004EP	PECVD Coating Using an Organosilicon Precursor	2251455 06-Sep-2017	Europe	Issued
SIO-0004FR	PECVD Coating Using an Organosilicon Precursor	2251455 06-Sep-2017	France	Issued
SIO-0004GB	PECVD Coating Using an Organosilicon Precursor	2251455 06-Sep-2017	Great Britain	Issued
SIO-0004HK	PECVD Coating Using an Organosilicon Precursor	HK1169840 06-Jan-2017	Hong Kong	Issued
SIO-0004IL	PECVD Coating Using an Organosilicon Precursor	215914 31-Aug-2017	Israel	Issued
SIO-0004ILDIV	PECVD Coating Using an Organosilicon Precursor	254215 26-Jun-2021	Israel	Issued
SIO-0004IN	PECVD Coating Using an Organosilicon Precursor	318877 23-Aug-2019	India	Issued
SIO-0004KR	PECVD Coating Using an Organosilicon Precursor	1823159 23-Jan-2018	South Korea	Issued
SIO-0004KR2DIV	PECVD Coating Using an Organosilicon Precursor	1020187001918 19-Jan-2018	South Korea	Pending
SIO-0004KRDIV	PECVD Coating Using an Organosilicon Precursor	1020036510000 18-Jul-2019	South Korea	Issued
SIO-0004MX	PECVD Coating Using an Organosilicon Precursor	345403 30-Jan-2017	Mexico	Issued
SIO-0004MX2	PECVD Coating Using an Organosilicon Precursor	MXa2017001300 27-Jan-2017	Mexico	Published
SIO-0004NZ	PECVD Coating Using an Organosilicon Precursor	596239 29-Oct-2014	New Zealand	Issued
SIO-0004RU	PECVD Coating Using an Organosilicon Precursor	2550452 10-May-2015	Russia	Issued
SIO-0004SG	PECVD Coating Using an Organosilicon Precursor	176008 10-Jun-2014	Singapore	Issued
SIO-0004SG2	PECVD Coating Using an Organosilicon Precursor	10201402278V 25-Jan-2018	Singapore	Issued
SIO-0004TH	PECVD Coating Using an Organosilicon Precursor	1101003096 12-May-2010	Thailand	Published
SIO-0004ZA	PECVD Coating Using an Organosilicon Precursor	201107835 29-May-2013	South Africa	Issued
SIO-0005CH	Vessel Coating and Inspection	2251454 23-Jul-2014	Switzerland	Issued
SIO-0005CH2	Vessel Coating and Inspection	2674513 14-Nov-2018	Switzerland	Issued
SIO-0005CH3	Vessel Coating and Inspection	2796591 06-Jul-2016	Switzerland	Issued

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0005DE	Vessel Coating and Inspection	2251454 23-Jul-2014	Germany	Issued
SIO-0005DE2	Vessel Coating and Inspection	2674513 14-Nov-2018	Germany	Issued
SIO-0005DE3	Vessel Coating and Inspection	2796591 06-Jul-2016	Germany	Issued
SIO-0005EP	Vessel Coating and Inspection	2251454 23-Jul-2014	Europe	Issued
SIO-0005EP2	Vessel Coating and Inspection	2674513 14-Nov-2018	Europe	Issued
SIO-0005EP3	Vessel Coating and Inspection	2796591 06-Jul-2016	Europe	Issued
SIO-0005FR	Vessel Coating and Inspection	2251454 23-Jul-2014	France	Issued
SIO-0005FR2	Vessel Coating and Inspection	2674513 14-Nov-2018	France	Issued
SIO-0005FR3	Vessel Coating and Inspection	2796591 06-Jul-2016	France	Issued
SIO-0005GB	Vessel Coating and Inspection	2251454 23-Jul-2014	Great Britain	Issued
SIO-0005GB2	Vessel Coating and Inspection	2674513 14-Nov-2018	Great Britain	Issued
SIO-0005GB3	Vessel Coating and Inspection	2796591 06-Jul-2016	Great Britain	Issued
SIO-0005IE	Vessel Coating and Inspection	2251454 23-Jul-2014	Ireland	Issued
SIO-0005IE3	Vessel Coating and Inspection	2796591 06-Jul-2016	Ireland	Issued
SIO-0005IT	Vessel Coating and Inspection	2251454 23-Jul-2014	Italy	Issued
SIO-0006CA	Lubricity Vessel Coating, Coating Process and Apparatus	2799213 11-May-2011	Canada	Published
SIO-0006CH	Lubricity Vessel Coating, Coating Process and Apparatus	2579996 02-Jan-2019	Switzerland	Issued
SIO-0006CN	Lubricity Vessel Coating, Coating Process and Apparatus	ZL201180023474.2 06-Jul-2016	China	Issued
SIO-0006DE	Lubricity Vessel Coating, Coating Process and Apparatus	2579996 02-Jan-2019	Germany	Issued
SIO-0006EP	Lubricity Vessel Coating, Coating Process and Apparatus	2579996 02-Jan-2019	Europe	Issued
SIO-0006FR	Lubricity Vessel Coating, Coating Process and Apparatus	2579996 02-Jan-2019	France	Issued
SIO-0006GB	Lubricity Vessel Coating, Coating Process and Apparatus	2579996 02-Jan-2019	Great Britain	Issued
SIO-0006JP	Lubricity Vessel Coating, Coating Process and Apparatus	6196152 25-Aug-2017	Japan	Issued
SIO-0006JPDIV1	Lubricity Vessel Coating, Coating Process and Apparatus	2017102848 24-May-2017	Japan	Published
SIO-0006USCON	Lubricity Vessel Coating, Coating Process and Apparatus	16518480 22-Jul-2019	United States	Published
SIO-0008AR	Vessel Outgassing Inspection Methods	082615 29-Nov-2017	Argentina	Issued
SIO-0008BR	Vessel Outgassing Inspection Methods	1120120288970 12-May-2011	Brazil	Published

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0008CA	Vessel Outgassing Inspection Methods	2799220 31-Mar-2020	Canada	Issued
SIO-0008CH	Vessel Outgassing Inspection Methods	2569611 03-Oct-2019	Switzerland	Issued
SIO-0008DE	Vessel Outgassing Inspection Methods	2569611 03-Oct-2019	Germany	Issued
SIO-0008EP	Vessel Outgassing Inspection Methods	2569611 03-Oct-2018	Europe	Issued
SIO-0008EPDIV1	Vessel Outgassing Inspection Methods	18197314.0 12-May-2011	Europe	Published
SIO-0008FR	Vessel Outgassing Inspection Methods	2569611 03-Oct-2019	France	Issued
SIO-0008GB	Vessel Outgassing Inspection Methods	2569611 03-Oct-2019	Great Britain	Issued
SIO-0008IN	Vessel Outgassing Inspection Methods	9844DELNP2012 12-May-2011	India	Published
SIO-0008KR	Vessel Outgassing Inspection Methods	1895367 30-Aug-2018	South Korea	Issued
SIO-0008KRDIV1	Vessel Outgassing Inspection Methods	2028690 27-Sep-2019	South Korea	Issued
SIO-0008KRDIV2	Vessel Outgassing Inspection Methods	2157254 11-Sep-2020	South Korea	Issued
SIO-0008KRDIV3	Vessel Outgassing Inspection Methods	10-2020-7026338 27-Sep-2019	South Korea	Allowed
SIO-0008NZ	Vessel Outgassing Inspection Methods	603471 28-May-2015	New Zealand	Issued
SIO-0008RU	Vessel Outgassing Inspection Methods	2561759 10-Sep-2015	Russia	Issued
SIO-0008TH	Vessel Outgassing Inspection Methods	1201005901 12-May-2011	Thailand	Published
SIO-0008US	Vessel, Coating and Inspection Processing Apparatus	7985188 26-Jul-2011	United States	Issued
SIO-0008US2CON	Vessel Inspection Apparatus and Methods	8834954 16-Sep-2014	United States	Issued
SIO-0008US2DIV	Vessel Inspection Apparatus and Methods	8512796 20-Aug-2013	United States	Issued
SIO-0008US3CON	Apparatus and Methods For Transporting A Vessel to And from a PECVD Processing Station	9572526 21-Feb-2017	United States	Issued
SIO-0008US4CON	Syringe with PECVD Lubricity Layer, Apparatus and Method For Transporting A Vessel to and from a PECVDProcessing Station, and Double Wall Plastic Vessel	10390744 27-Aug-2019	United States	Issued
SIO-0008US5CON	SYRINGE WITH PECVD LUBRICITY LAYER	10537273 21-Jan-2020	United States	Issued
SIO-0008ZA	Vessel Outgassing Inspection Methods	201208501 28-May-2014	South Africa	Issued
SIO-0009CA	Coating Inspection Method	2890066 31-Oct-2013	Canada	Published
SIO-0009CH	Coating Inspection Method	2914762 13-May-2020	Switzerland	Issued
SIO-0009DE	Coating Inspection Method	2914762 13-May-2020	Germany	Issued
SIO-0009EP	Coating Inspection Method	2914762 13-May-2020	Europe	Issued

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0009FR	Coating Inspection Method	2914762 13-May-2020	France	Issued
SIO-0009GB	Coating Inspection Method	2914762 13-May-2020	Great Britain	Issued
SIO-0009JP	Coating Inspection Method	6509734 12-Apr-2019	Japan	Issued
SIO-0009US	Coating Inspection Method	9664626 30-May-2017	United States	Issued
SIO-0010CA	Syringe With Integrated Needle	2803613 11-Dec-2018	Canada	Issued
SIO-0010EP	Syringe With Integrated Needle	2605862 29-Apr-2020	Europe	Issued
SIO-0010JP	Syringe With Integrated Needle	5900825 18-Mar-2016	Japan	Issued
SIO-0010US	Syringe With Integrated Needle	9381687 05-Jul-2016	United States	Issued
SIO-0010US2	Syringe With Integrated Needle	15200944 01-Jul-2016	United States	Published
SIO-0011US	Molding Apparatus, Method and Syringe Produced Using Same	9345846 24-May-2016	United States	Issued
SIO-0014CH	Parenteral Vial Cap	3016628 28-Mar-2018	Switzerland	Issued
SIO-0014DE	Parenteral Vial Cap	3016628 28-Mar-2018	Germany	Issued
SIO-0014EP	Parenteral Vial Cap	3016628 28-Mar-2018	Europe	Issued
SIO-0014FR	Parenteral Vial Cap	3016628 28-Mar-2018	France	Issued
SIO-0014GB	Parenteral Vial Cap	3016628 28-Mar-2018	Great Britain	Issued
SIO-0014IN	Parenteral Vial Cap	201617002312 24-Jun-2014	India	Published
SIO-0014US	Parenteral Vial Cap	10327986 25-Jun-2019	United States	Issued
SIO-0017BR	Cycloolefin Polymer Container With A Scratch Resistant And Anti-Static Coating	1120170181762 26-Feb-2016	Brazil	Published
SIO-0017CA	Cycloolefin Polymer Container With A Scratch Resistant And Anti-Static Coating	2977801 26-Feb-2016	Canada	Published
SIO-0017CN	Cycloolefin Polymer Container With A Scratch Resistant And Anti-Static Coating	201680011551.5 26-Feb-2016	China	Published
SIO-0017EP	Cycloolefin Polymer Container With A Scratch Resistant And Anti-Static Coating	3261605 29-May-2019	Europe	Issued
SIO-0017IN	Cycloolefin Polymer Container With A Scratch Resistant And Anti-Static Coating	201717032094 26-Feb-2016	India	Published
SIO-0017JP	Cycloolefin Polymer Container With A Scratch Resistant And Anti-Static Coating	6822970 12-Jan-2021	Japan	Issued
SIO-0017MX	Cycloolefin Polymer Container With A Scratch Resistant And Anti-Static Coating	Mxa2017010944 26-Feb-2016	Mexico	Published
SIO-0017US	Cycloolefin Polymer Container With A Scratch Resistant And Anti-Static Coating	10780021 22-Sep-2020	United States	Issued
SIO-0020EP	Rapid, Non-Destructive Selective Infrared Spectrometry Analysis of Organic Coatings On Molded Articles	3044568 09-Sep-2020	Europe	Issued
SIO-0020US	Rapid, Non-Destructive Selective Infrared Spectrometry Analysis of Organic Coatings On Molded Articles	9952147 24-Apr-2018	United States	Issued

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0021US	Needle Siliconization With Controlled Positive Pressure Gas Flow	9855577 02-Jan-2018	United States	Issued
SIO-0021USDIV	Needle Siliconization With Controlled Positive Pressure Gas Flow	10258718 16-Apr-2019	United States	Issued
SIO-0022AU2	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	2015315849 12-Mar-2020	Australia	Issued
SIO-0022AU2DIV1	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	2020201401 26-Feb-2020	Australia	Published
SIO-0022CA2	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	2960135 06-Apr-2015	Canada	Published
SIO-0022CN2	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	107106782 23-Oct-2020	China	Issued
SIO-0022CN2DIV	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	202010984248.1 06-Apr-2015	China	Pending
SIO-0022EP	Convertible Plungers, Film Coated Plungers And Related Syringe Assemblies	3055007 02-Dec-2020	Europe	Issued
SIO-0022EP2	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	15718053.0 06-Apr-2015	Europe	Allowed
SIO-0022HK2	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	18100495.0 06-Apr-2015	Hong Kong	Published
SIO-0022IL2	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	251038 01-May-2021	Israel	Issued
SIO-0022IN2	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	201717012011 06-Apr-2015	India	Published
SIO-0022JP	Convertible Plungers, Film Coated Plungers And Related Syringe Assemblies	6673822 09-Mar-2020	Japan	Issued
SIO-0022JP2	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	6826028 18-Jan-2021	Japan	Issued
SIO-0022JPDIV	Convertible Plungers, Film Coated Plungers And Related Syringe Assemblies	2020037034 07-Oct-2014	Japan	Pending
SIO-0022JPDIV1	Convertible Plungers, Film Coated Plungers And Related Syringe Assemblies	2020037034 07-Oct-2014	Japan	Published
SIO-0022KR2	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	1020177009152 06-Apr-2015	South Korea	Published
SIO-0022MX2	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	MXa2017003045 06-Apr-2015	Mexico	Published
SIO-0022MY2	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	MY-178361-A 09-Oct-2020	Malaysia	Issued
SIO-0022NZ2	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	729991 29-May-2020	New Zealand	Issued
SIO-0022NZ2DIV1	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	759333 06-Apr-2015	New Zealand	Published
SIO-0022SG2DIV1	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	102019031225 08-Apr-2019	Singapore	Published
SIO-0022US	Convertible Plungers, Film Coated Plungers And Related Syringe Assemblies	10561795 18-Feb-2020	United States	Issued
SIO-0022US2	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	10850042 01-Dec-2020	United States	Issued
SIO-0022US2DIV	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	17107241 30-Nov-2020	United States	Published
SIO-0022ZA2	Three-Position Plungers, Film Coated Plungers And Related Syringe Assemblies	201702432 29-Aug-2018	South Africa	Issued
SIO-0026CH	Vessel Processing	2253735 22-Nov-2017	Switzerland	Issued

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0026CH2	Vessel Processing	2251452 18-Jul-2018	Switzerland	Issued
SIO-0026DE	Vessel Processing	2253735 22-Nov-2017	Germany	Issued
SIO-0026DE2	Vessel Processing	2251452 18-Jul-2018	Germany	Issued
SIO-0026EP	Vessel Processing	2253735 22-Nov-2017	Europe	Issued
SIO-0026EP2	Vessel Processing	2251452 18-Jul-2018	Europe	Issued
SIO-0026FR	Vessel Processing	2253735 22-Nov-2017	France	Issued
SIO-0026FR2	Vessel Processing	2251452 18-Jul-2018	France	Issued
SIO-0026GB	Vessel Processing	2253735 22-Nov-2017	Great Britain	Issued
SIO-0026GB2	Vessel Processing	2251452 18-Jul-2018	Great Britain	Issued
SIO-0028CA	Methods And Apparatuses For Injection Molding Walled Structures	2927340 15-Oct-2014	Canada	Published
SIO-0028CA2	Methods And Apparatuses For Injection Molding Walled Structures	2979743 06-Apr-2016	Canada	Published
SIO-0028CH	Methods And Apparatuses For Injection Molding Walled Structures	3057632 17-Jun-2020	Switzerland	Issued
SIO-0028CH2	Methods And Apparatuses For Injection Molding Walled Structures	3280580 13-Mar-2019	Switzerland	Issued
SIO-0028CN	Methods And Apparatuses For Injection Molding Walled Structures	ZL201480058765.9 21-Feb-2020	China	Issued
SIO-0028DE	Methods And Apparatuses For Injection Molding Walled Structures	3057632 17-Jun-2020	Germany	Issued
SIO-0028DE2	Methods And Apparatuses For Injection Molding Walled Structures	3280580 13-Mar-2019	Germany	Issued
SIO-0028EP	Methods And Apparatuses For Injection Molding Walled Structures	3057632 17-Jun-2020	Europe	Issued
SIO-0028EP2	Methods And Apparatuses For Injection Molding Walled Structures	3280580 13-Mar-2019	Europe	Issued
SIO-0028FR	Methods And Apparatuses For Injection Molding Walled Structures	3057632 17-Jun-2020	France	Issued
SIO-0028FR2	Methods And Apparatuses For Injection Molding Walled Structures	3280580 13-Mar-2019	France	Issued
SIO-0028GB	Methods And Apparatuses For Injection Molding Walled Structures	3057632 17-Jun-2020	Great Britain	Issued
SIO-0028GB2	Methods And Apparatuses For Injection Molding Walled Structures	3280580 13-Mar-2019	Great Britain	Issued
SIO-0028JP2	Methods And Apparatuses For Injection Molding Walled Structures	2017552167 06-Apr-2016	Japan	Allowed
SIO-0028US	Methods And Apparatuses For Injection Molding Walled Structures	10639421 05-May-2020	United States	Issued
SIO-0028US2	Methods And Apparatuses For Injection Molding Walled Structures	10899053 26-Jan-2021	United States	Issued
SIO-0029USP7	Packaging Improvements For Particulate Control	63120052 01-Dec-2020	United States	Pending
SIO-0030USP7	Product Traceability Master Plan	TBD TBD	United States	Pre-Filing

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0033EP	Method and Apparatus for Detecting Rapid Barrier Coating Integrity Characteristics	2920567 19-Aug-2020	Europe	Issued
SIO-0033US	Method and Apparatus for Detecting Rapid Barrier Coating Integrity Characteristics	9903782 27-Feb-2018	United States	Issued
SIO-0035AU2	Controlling The Uniformity of PECVD Deposition On Medical Syringes, Cartridges, And The Like	2013352436 25-Oct-2018	Australia	Issued
SIO-0035BR2	Controlling The Uniformity of PECVD Deposition On Medical Syringes, Cartridges, And The Like	1120150124704 25-Nov-2013	Brazil	Published
SIO-0035CA2	Controlling The Uniformity of PECVD Deposition On Medical Syringes, Cartridges, And The Like	2892294 25-Nov-2013	Canada	Published
SIO-0035CN2	Controlling The Uniformity of PECVD Deposition On Medical Syringes, Cartridges, And The Like	105705676 07-Sep-2018	China	Issued
SIO-0035EP2	Controlling The Uniformity of PECVD Deposition On Medical Syringes, Cartridges, And The Like	13811664.5 25-Nov-2013	Europe	Published
SIO-0035IN2	Controlling The Uniformity of PECVD Deposition On Medical Syringes, Cartridges, And The Like	5624DELNP2015 25-Nov-2013	India	Published
SIO-0035JP2	Controlling The Uniformity of PECVD Deposition On Medical Syringes, Cartridges, And The Like	6382830 10-Aug-2018	Japan	Issued
SIO-0035KR2	Controlling The Uniformity of PECVD Deposition On Medical Syringes, Cartridges, And The Like	10-2211950 29-Jan-2021	South Korea	Issued
SIO-0035US	Controlling The Uniformity of PECVD Deposition	9764093 19-Sep-2017	United States	Issued
SIO-0035US2	Controlling The Uniformity of PECVD Deposition On Medical Syringes, Cartridges, And The Like	10201660 12-Feb-2019	United States	Issued
SIO-0035USCON	Controlling The Uniformity of PECVD Deposition	10363370 30-Jul-2019	United States	Issued
SIO-0035USCON2	Controlling The Uniformity of PECVD Deposition	16521207 24-Jul-2019	United States	Published
SIO-0036US	Packaging For High-Purity Solvents	9981794 29-May-2018	United States	Issued
SIO-0036USCON	Packaging For High-Purity Solvents	10807781 20-Oct-2020	United States	Issued
SIO-0037EP	Plasma or CVD Pre-Treatment for Lubricated Pharmaceutical Package, Coating Process and Apparatus	14711096.9 28-Feb-2014	Europe	Published
SIO-0037EP2	Plasma or CVD Pre-Treatment for Lubricated Pharmaceutical Package, Coating Process and Apparatus	14711096.9 28-Feb-2014	Europe	Pending
SIO-0037US	Plasma or CVD Pre-Treatment for Lubricated Pharmaceutical Package, Coating Process and Apparatus	9662450 30-May-2017	United States	Issued
SIO-0038BR	Coated Packaging	1120150224024 11-Mar-2014	Brazil	Pending
SIO-0038BR2	Coated Packaging	1120150224024 11-Mar-2014	Brazil	Published
SIO-0038CA	Coated Packaging	2904611 11-Mar-2014	Canada	Pending
SIO-0038CA2	Coated Packaging	2904611 11-Mar-2014	Canada	Allowed
SIO-0038CN	Coated Packaging	105392916 08-Mar-2019	China	Issued
SIO-0038CN2	Coated Packaging	ZL201480023072.6 08-Mar-2019	China	Issued
SIO-0038CN2DIV1		201910110491.8 11-Mar-2014	China	Pending
SIO-0038EP	Coated Packaging	14718238.0 11-Mar-2014	Europe	Pending

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0038EP2	Coated Packaging	14718238.0 11-Mar-2014	Europe	Published
SIO-0038IN	Coated Packaging	352305 26-Nov-2020	India	Issued
SIO-0038IN2	Coated Packaging	9083/DELNP/2015 11-Mar-2014	India	Published
SIO-0038JP	Coated Packaging	6453841 21-Dec-2018	Japan	Issued
SIO-0038JP2	Coated Packaging	6453841 21-Dec-2018	Japan	Issued
SIO-0038JP2DIV1	Coated Packaging	6790049 06-Nov-2020	Japan	Issued
SIO-0038JP2DIV2	Coated Packaging	2020184582 11-Mar-2014	Japan	Pending
SIO-0038KR	Coated Packaging	10-2167557 13-Oct-2020	South Korea	Issued
SIO-0038KR2	Coated Packaging	102167557 20-Oct-2020	South Korea	Issued
SIO-0038KR2DIV1	Coated Packaging	10-2211788 28-Jan-2021	South Korea	Issued
SIO-0038KR2DIV2	Coated Packaging	10-2021-7002996 11-Mar-2014	South Korea	Pending
SIO-0038US	Trilayer Coated Pharmaceutical Packaging	9554968 31-Jan-2017	United States	Issued
SIO-0038US3CON	Trilayer Coated Pharmaceutical Packaging	10016338 10-Jul-2018	United States	Issued
SIO-0038US4CON	PECVD Coated Pharmaceutical Packaging	10912714 09-Feb-2021	United States	Issued
SIO-0038US5CON	Coated Packaging	16121046 04-Sep-2018	United States	Published
SIO-0038US6CON	PECVD COATED PHARMACEUTICAL PACKAGING	17150841 15-Jan-2021	United States	Published
SIO-0040USP7	Organo-Siloxane Coatings That Exhibit Lubricious Properties In Cartridge And Syringe Applications	63890561 22-Aug-2020	United States	Pending
SIO-0042CA	Passivation, pH Protective or Lubricity Coating for Pharmaceutical Package, Coating Process and Apparatus	2855353 09-Nov-2012	Canada	Published
SIO-0042CH	Passivation, pH Protective or Lubricity Coating for Pharmaceutical Package, Coating Process and Apparatus	2776603 06-Mar-2019	Switzerland	Issued
SIO-0042CN	Passivation, pH Protective or Lubricity Coating for Pharmaceutical Package, Coating Process and Apparatus	201280055031.6 09-Nov-2012	China	Published
SIO-0042DE	Passivation, pH Protective or Lubricity Coating for Pharmaceutical Package, Coating Process and Apparatus	2776603 06-Mar-2019	Germany	Issued
SIO-0042EP	Passivation, pH Protective or Lubricity Coating for Pharmaceutical Package, Coating Process and Apparatus	2776603 06-Mar-2019	Europe	Issued
SIO-0042FR	Passivation, pH Protective or Lubricity Coating for Pharmaceutical Package, Coating Process and Apparatus	2776603 06-Mar-2019	France	Issued
SIO-0042GB	Passivation, pH Protective or Lubricity Coating for Pharmaceutical Package, Coating Process and Apparatus	2776603 06-Mar-2019	Great Britain	Issued
SIO-0042JP	Passivation, pH Protective or Lubricity Coating for Pharmaceutical Package, Coating Process and Apparatus	6095678 24-Feb-2017	Japan	Issued
SIO-0042US	Passivation, pH Protective or Lubricity Coating for Pharmaceutical Package, Coating Process and Apparatus	10189603 29-Jan-2019	United States	Issued
SIO-0042USCON	Passivation, pH Protective or Lubricity Coating for Pharmaceutical Package, Coating Process and Apparatus	16806589 02-Mar-2020	United States	Allowed

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0042USDIV	Passivation, pH Protective or Lubricity Coating for Pharmaceutical Package, Coating Process and Apparatus	10577154 03-Mar-2020	United States	Issued
SIO-0044CH2	Coating Method	2971227 15-Nov-2017	Switzerland	Issued
SIO-0044DE2	Coating Method	2971227 15-Nov-2017	Germany	Issued
SIO-0044EP2	Coating Method	2971227 15-Nov-2017	Europe	Issued
SIO-0044FR2	Coating Method	2971227 15-Nov-2017	France	Issued
SIO-0044GB2	Coating Method	2971227 15-Nov-2017	Great Britain	Issued
SIO-0044US	PECVD Lubricity Vessel Coating, Coating Process And Apparatus Providing Different Power Levels in Two Phases	9863042 09-Jan-2018	United States	Issued
SIO-0045CH	Antistatic Coatings For Plastic Vessels	3122917 06-May-2020	Switzerland	Issued
SIO-0045DE	Antistatic Coatings For Plastic Vessels	3122917 06-May-2020	Germany	Issued
SIO-0045EP	Antistatic Coatings For Plastic Vessels	3122917 06-May-2020	Europe	Issued
SIO-0045EPDIV1	Antistatic Coatings For Plastic Articles	20166038.8 24-Mar-2015	Europe	Published
SIO-0045FR	Antistatic Coatings For Plastic Vessels	3122917 06-May-2020	France	Issued
SIO-0045GB	Antistatic Coatings For Plastic Vessels	3122917 06-May-2020	Great Britain	Issued
SIO-0045US	Antistatic Coatings For Plastic Vessels	11066745 20-Jul-2021	United States	Issued
SIO-0045USCON	Antistatic Coatings For Plastic Vessels	17340844 07-Jun-2021	United States	Pending
SIO-0046CA	Method For Applying A PECVD Lubricity Layer With A Moving Gas Inlet	3020326 07-Apr-2017	Canada	Published
SIO-0046CN	Method For Applying A PECVD Lubricity Layer With A Moving Gas Inlet	201780034217.6 07-Apr-2017	China	Published
SIO-0046EP	Method For Applying A PECVD Lubricity Layer With A Moving Gas Inlet	17721896.3 07-Apr-2017	Europe	Published
SIO-0046JP	Method For Applying A PECVD Lubricity Layer With A Moving Gas Inlet	2018552881 07-Apr-2017	Japan	Published
SIO-0046US	Method For Applying A PECVD Lubricity Layer With A Moving Gas Inlet	16092124 07-Apr-2017	United States	Published
SIO-0055US	Vessels, Contact Surfaces, and Coating Inspection Apparatus and Methods	9272095 01-Mar-2016	United States	Issued
SIO-0056BE	Injection Molding Process and Product Produced Using the Same	2910358 05-Dec-2018	Belgium	Issued
SIO-0056BE2	Injection Molding Process and Product Produced Using the Same	2910358 05-Dec-2018	Belgium	Issued
SIO-0056CA	Injection Molding Process and Product Produced Using the Same	2805668 28-Jan-2020	Canada	Issued
SIO-0056CH	Injection Molding Process and Product Produced Using the Same	2593286 04-Mar-2015	Switzerland	Issued
SIO-0056CH2	Injection Molding Process and Product Produced Using the Same	2910358 05-Dec-2018	Switzerland	Issued
SIO-0056CN	Injection Molding Process and Product Produced Using the Same	ZL201180034947.9 21-Dec-2016	China	Issued

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0056DE	Injection Molding Process and Product Produced Using the Same	2593286 04-Mar-2015	Germany	Issued
SIO-0056DE2	Injection Molding Process and Product Produced Using the Same	2910358 05-Dec-2018	Germany	Issued
SIO-0056EP	Injection Molding Process and Product Produced Using the Same	2593286 04-Mar-2015	Europe	Issued
SIO-0056EP2	Injection Molding Process and Product Produced Using the Same	2910358 05-Dec-2018	Europe	Issued
SIO-0056FR	Injection Molding Process and Product Produced Using the Same	2593286 04-Mar-2015	France	Issued
SIO-0056FR2	Injection Molding Process and Product Produced Using the Same	2910358 05-Dec-2018	France	Issued
SIO-0056GB	Injection Molding Process and Product Produced Using the Same	2593286 04-Mar-2015	Great Britain	Issued
SIO-0056GB2	Injection Molding Process and Product Produced Using the Same	2910358 05-Dec-2018	Great Britain	Issued
SIO-0056IE2	Injection Molding Process and Product Produced Using the Same	2910358 05-Dec-2018	Ireland	Issued
SIO-0056IT2	Injection Molding Process and Product Produced Using the Same	2910358 05-Dec-2018	Italy	Issued
SIO-0056JP	Injection Molding Process and Product Produced Using the Same	5837060 13-Nov-2015	Japan	Issued
SIO-0056US	Injection Molding Process and Product Produced Using the Same	9475225 25-Oct-2016	United States	Issued
SIO-0056US2	Injection Molding Process and Product Produced Using the Same	10059047 28-Aug-2018	United States	Issued
SIO-0058CH	Vessel Holder	2251453 11-Dec-2013	Switzerland	Issued
SIO-0058DE	Vessel Holder	602010012296.4 11-Dec-2013	Germany	Issued
SIO-0058EP	Vessel Holder	2251453 11-Dec-2013	Europe	Issued
SIO-0058FR	Vessel Holder	2251453 11-Dec-2013	France	Issued
SIO-0058GB	Vessel Holder	2251453 11-Dec-2013	Great Britain	Issued
SIO-0058IE	Vessel Holder	2251453 11-Dec-2013	Ireland	Issued
SIO-0058IT	Vessel Holder	2251453 11-Dec-2013	Italy	Issued
SIO-0059CA	SiOx Barrier for Pharmaceutical Package and Coating Process	2878638 01-Jun-2021	Canada	Issued
SIO-0059CN	SiOx Barrier for Pharmaceutical Package and Coating Process	201380045837.1 28-Jun-2013	China	Published
SIO-0059EP	SiOx Barrier for Pharmaceutical Package and Coating Process	13737503.6 28-Jun-2013	Europe	Published
SIO-0059JP	SiOx Barrier for Pharmaceutical Package and Coating Process	6488232 01-Mar-2019	Japan	Issued
SIO-0059US	SiOx Barrier for Pharmaceutical Package and Coating Process	14412472 28-Jun-2013	United States	Published
SIO-0059USCON	SiOx Barrier for Pharmaceutical Package and Coating Process	17306621 03-May-2021	United States	Pending
SIO-0060US	Saccharide Protective Coating for Pharmaceutical Package	9545360 17-Jan-2017	United States	Issued

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0063CA	Convertible Plunger With Independently Translating Storage Sealing Section Relative To Liquid Sealing SectionAnd Methods For Assembling The Same In A Medical Barrel	2992275 13-Jul-2016	Canada	Published
SIO-0063CN	Convertible Plunger With Independently Translating Storage Sealing Section Relative To Liquid Sealing SectionAnd Methods For Assembling The Same In A Medical Barrel	201680040685.X 13-Jul-2016	China	Published
SIO-0063DES	SYRINGE PLUNGER ASSEMBLIES AND COMPONENTS	D870278 17-Dec-2019	United States	Issued
SIO-0063EP	Convertible Plunger With Independently Translating Storage Sealing Section Relative To Liquid Sealing SectionAnd Methods For Assembling The Same In A Medical Barrel	16825145.2 13-Jul-2016	Europe	Published
SIO-0063EP2	Convertible Plunger With Independently Translating Storage Sealing Section Relative To Liquid Sealing SectionAnd Methods For Assembling The Same In A Medical Barrel	17702708.3 13-Jan-2017	Europe	Allowed
SIO-0063JP	Convertible Plunger With Independently Translating Storage Sealing Section Relative To Liquid Sealing SectionAnd Methods For Assembling The Same In A Medical Barrel	2018500654 13-Jul-2016	Japan	Published
SIO-0063US	Convertible Plunger With Independently Translating Storage Sealing Section Relative To Liquid Sealing SectionAnd Methods For Assembling The Same In A Medical Barrel	10765812 08-Sep-2020	United States	Issued
SIO-0063US2	Convertible Plungers And Methods For Assembling The Same In A Medical Barrel	10918800 16-Feb-2021	United States	Issued
SIO-0063US2CON	Convertible Plunger With Independently Translating Storage Sealing Section Relative To Liquid Sealing SectionAnd Methods For Assembling The Same In A Medical Barrel	17248972 16-Feb-2021	United States	Pending
SIO-0072US	Trilayer Coated Pharmaceutical Packaging With Low Oxygen Transmission Rate	9937099 10-Apr-2018	United States	Issued
SIO-0072US2	Trilayer Coated Pharmaceutical Packaging With Low Oxygen Transmission Rate	10537494 21-Jan-2020	United States	Issued
SIO-0083US	Cyclic Olefin Polymer Vessels and Vessel Coating Methods	9878101 30-Jan-2018	United States	Issued
SIO-0083USCON	Cyclic Olefin Polymer Vessels and Vessel Coating Methods	15824775 28-Nov-2017	United States	Allowed
SIO-0084US	PECVD Coating Methods for Capped Syringes, Cartridges and Other Articles	9458536 04-Oct-2016	United States	Issued
SIO-0088CA2	Plasma Treatment With Non-Polymerizing CompoundsThat Leads To Reduced Dilute Biomolecule Adhesion To Thermoplastic Articles	2984439 08-Jun-2021	Canada	Issued
SIO-0088CN2	Plasma Treatment With Non-Polymerizing CompoundsThat Leads To Reduced Dilute Biomolecule Adhesion To Thermoplastic Articles	ZL201680023909.6 06-Jul-2021	China	Issued
SIO-0088EP	Plasma Treatment With Non-Polymerizing CompoundsThat Leads To Reduced Biomolecule Adhesion To Thermoplastic Articles	15823568.9 16-Dec-2015	Europe	Published
SIO-0088EP2	Plasma Treatment With Non-Polymerizing Compounds That Leads To Reduced Dilute Biomolecule Adhesion To Thermoplastic Articles	16728427.2 29-Apr-2016	Europe	Published
SIO-0088HK	Plasma Treatment With Non-Polymerizing CompoundsThat Leads To Reduced Biomolecule Adhesion To Thermoplastic Articles	18103540.9 16-Dec-2015	Hong Kong	Published
SIO-0088KR2	Plasma Treatment With Non-Polymerizing CompoundsThat Leads To Reduced Dilute Biomolecule Adhesion To Thermoplastic Articles	1020177030749 29-Apr-2016	South Korea	Published
SIO-0088US	Plasma Treatment With Non-Polymerizing CompoundsThat Leads To Reduced Biomolecule Adhesion To Thermoplastic Articles	15536811 16-Dec-2015	United States	Published
SIO-0088US2	Plasma Treatment With Non-Polymerizing CompoundsThat Leads To Reduced Dilute Biomolecule Adhesion To Thermoplastic Articles	15570571 30-Oct-2017	United States	Published

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0096BR	Pharmaceutical And Other Packaging With Low Oxygen Transmission Rate	1120180030511 18-Aug-2016	Brazil	Published
SIO-0096CA	Pharmaceutical And Other Packaging With Low Oxygen Transmission Rate	2995225 18-Aug-2016	Canada	Published
SIO-0096CN	Pharmaceutical And Other Packaging With Low Oxygen Transmission Rate	201680060686.0 18-Aug-2016	China	Published
SIO-0096EP	Pharmaceutical And Other Packaging With Low Oxygen Transmission Rate	16766680.9 18-Aug-2016	Europe	Published
SIO-0096IN	Pharmaceutical And Other Packaging With Low Oxygen Transmission Rate	201817008590 18-Aug-2016	India	Pending
SIO-0096JP	Pharmaceutical And Other Packaging With Low Oxygen Transmission Rate	2018508654 18-Aug-2016	Japan	Published
SIO-0096KR	Pharmaceutical And Other Packaging With Low Oxygen Transmission Rate	1020187006769 18-Aug-2016	South Korea	Published
SIO-0096US	Pharmaceutical And Other Packaging With Low Oxygen Transmission Rate	11077233 03-Aug-2021	United States	Issued
SIO-0099USP4	Vessels with PECVD Coating(s) Blocking Extractables	62886494 14-Aug-2020	United States	Pending
SIO-0102AU	Liquid Formulation Of Ranibizumab, Aflibercept, Or Bevacizumab In a Cyclic Olefin Polymer Pharmaceutical Package	2016358111 18-Nov-2016	Australia	Published
SIO-0102BR	Liquid Formulation Of Ranibizumab, Aflibercept, Or Bevacizumab In a Cyclic Olefin Polymer Pharmaceutical Package	1120180099538 18-Nov-2016	Brazil	Published
SIO-0102CA	Liquid Formulation Of Ranibizumab, Aflibercept, Or Bevacizumab In a Cyclic Olefin Polymer Pharmaceutical Package	3005117 18-Nov-2016	Canada	Published
SIO-0102CN	Liquid Formulation Of Ranibizumab, Aflibercept, Or Bevacizumab In a Cyclic Olefin Polymer Pharmaceutical Package	201680076507.2 18-Nov-2016	China	Published
SIO-0102EP	Liquid Formulation Of Ranibizumab, Aflibercept, Or Bevacizumab In a Cyclic Olefin Polymer Pharmaceutical Package	16806413.7 18-Nov-2016	Europe	Published
SIO-0102JP	Liquid Formulation Of Ranibizumab, Aflibercept, Or Bevacizumab In a Cyclic Olefin Polymer Pharmaceutical Package	2018525414 18-Nov-2016	Japan	Published
SIO-0102KR	Liquid Formulation Of Ranibizumab, Aflibercept, Or Bevacizumab In a Cyclic Olefin Polymer Pharmaceutical Package	1020187016506 18-Nov-2016	South Korea	Published
SIO-0102MX	Liquid Formulation Of Ranibizumab, Aflibercept, Or Bevacizumab In a Cyclic Olefin Polymer Pharmaceutical Package	MXA2018006092 18-Nov-2016	Mexico	Published
SIO-0102RU	Liquid Formulation Of Ranibizumab, Aflibercept, Or Bevacizumab In a Cyclic Olefin Polymer Pharmaceutical Package	2018120377 18-Nov-2016	Russia	Published
SIO-0102US	Liquid Formulation Of Ranibizumab, Aflibercept, Or Bevacizumab In a Cyclic Olefin Polymer Pharmaceutical Package	10925927 23-Feb-2021	United States	Issued
SIO-0102USCON	PRE-FILLED PHARMACEUTICAL PACKAGE COMPRISING A LIQUID FORMULATION OF A VEGF-ANTAGONIST	17154702 21-Jan-2021	United States	Published
SIO-0102ZA	Liquid Formulation Of Ranibizumab, Aflibercept, Or Bevacizumab In a Cyclic Olefin Polymer Pharmaceutical Package	201803983 18-Nov-2016	South Africa	Published
SIO-0103AU	Trilayer Coated Cyclic Olefin Polymer Pharmaceutical Package Suitable for Terminal Sterilization	2016356717 18-Nov-2016	Australia	Published
SIO-0103BR	Trilayer Coated Cyclic Olefin Polymer Pharmaceutical Package Suitable for Terminal Sterilization	112018009951 18-Nov-2016	Brazil	Published
SIO-0103CA	Trilayer Coated Cyclic Olefin Polymer Pharmaceutical Package Suitable for Terminal Sterilization	3005132 18-Nov-2016	Canada	Published

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0103CN	Trilayer Coated Cyclic Olefin Polymer Pharmaceutical Package Suitable for Terminal Sterilization	201680078689.7 18-Nov-2016	China	Published
SIO-0103EP	Trilayer Coated Cyclic Olefin Polymer Pharmaceutical Package Suitable for Terminal Sterilization	16809255.9 18-Nov-2016	Europe	Published
SIO-0103EPHK	Trilayer Coated Cyclic Olefin Polymer Pharmaceutical Package Suitable for Terminal Sterilization	19120575.6 18-Nov-2016	Hong Kong	Published
SIO-0103JP	Trilayer Coated Cyclic Olefin Polymer Pharmaceutical Package Suitable for Terminal Sterilization	2018524228 18-Nov-2016	Japan	Published
SIO-0103KR	Trilayer Coated Cyclic Olefin Polymer Pharmaceutical Package Suitable for Terminal Sterilization	1020187016330 18-Nov-2016	South Korea	Published
SIO-0103MX	Trilayer Coated Cyclic Olefin Polymer Pharmaceutical Package Suitable for Terminal Sterilization	382662 17-May-2021	Mexico	Issued
SIO-0103RU	Trilayer Coated Cyclic Olefin Polymer Pharmaceutical Package Suitable for Terminal Sterilization	2751510 14-Jul-2021	Russia	Issued
SIO-0103US	Trilayer Coated Cyclic Olefin Polymer Pharmaceutical Package Suitable for Terminal Sterilization	15777279 18-Nov-2016	United States	Published
SIO-0103ZA	Trilayer Coated Cyclic Olefin Polymer Pharmaceutical Package Suitable for Terminal Sterilization	201803984 18-Nov-2016	South Africa	Published
SIO-0106CN	Primary Containers With Improved Protein Drug Stability And Lower Immune Response	201980080371.6 29-Oct-2019	China	Pending
SIO-0106EP	Primary Containers With Improved Protein Drug Stability And Lower Immune Response	19805483.5 29-Oct-2019	Europe	Published
SIO-0106JP	Primary Containers With Improved Protein Drug Stability And Lower Immune Response	2021523447 29-Oct-2019	Japan	Pending
SIO-0106US	Primary Containers With Improved Protein Drug Stability And Lower Immune Response	17290226 29-Oct-2019	United States	Pending
SIO-0107CA	VESSELS, CONTAINERS, AND SURFACES COATED WITH WATER BARRIER COATINGS	3095165 27-Mar-2019	Canada	Pending
SIO-0107CN	VESSELS, CONTAINERS, AND SURFACES COATED WITH WATER BARRIER COATINGS	201980022795.7 27-Mar-2019	China	Published
SIO-0107EP	VESSELS, CONTAINERS, AND SURFACES COATED WITH WATER BARRIER COATINGS	19716744.8 27-Mar-2019	Europe	Published
SIO-0107JP	VESSELS, CONTAINERS, AND SURFACES COATED WITH WATER BARRIER COATINGS	2020551923 27-Mar-2019	Japan	Pending
SIO-0107US	VESSELS, CONTAINERS, AND SURFACES COATED WITH WATER BARRIER COATINGS	17042745 27-Mar-2019	United States	Pending
SIO-0110CA	Polymeric Surface Having Reduced Biomolecule Adhesion To Thermoplastic Articles	3001718 15-Jun-2016	Canada	Published
SIO-0110CN	Polymeric Surface Having Reduced Biomolecule Adhesion To Thermoplastic Articles	201680062146.6 15-Jun-2016	China	Allowed
SIO-0110EP	Polymeric Surface Having Reduced Biomolecule Adhesion To Thermoplastic Articles	3377565 23-Dec-2020	Europe	Issued
SIO-0110EPDIV1	Polymeric Surface Having Reduced Biomolecule Adhesion To Thermoplastic Articles	20215505.7 15-Jun-2016	Europe	Pending
SIO-0110JP	Polymeric Surface Having Reduced Biomolecule Adhesion To Thermoplastic Articles	2018523497 15-Jun-2016	Japan	Published
SIO-0110KR	Polymeric Surface Having Reduced Biomolecule Adhesion To Thermoplastic Articles	1020187009111 15-Jun-2016	South Korea	Published
SIO-0110US	Polymeric Surface Having Reduced Biomolecule Adhesion To Thermoplastic Articles	15776728 15-Jun-2016	United States	Published
SIO-0113US	BLOOD SAMPLE COLLECTION TUBE	16448689 21-Jun-2019	United States	Allowed
SIO-0116USP5	Advanced In-Process Monitoring And Traceability for Primary Container Manufacturing	63120013 01-Dec-2020	United States	Pending

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0121CA	POLYMER PROCESS BAGS AND METHODS FOR MANUFACTURING THE SAME	Not Yet Assigned 07-Jan-2020	Canada	Pending
SIO-0121CN	POLYMER PROCESS BAGS AND METHODS FOR MANUFACTURING THE SAME	Not Yet Assigned 07-Jan-2020	China	Pending
SIO-0121EP	POLYMER PROCESS BAGS AND METHODS FOR MANUFACTURING THE SAME	20703615.3 07-Jan-2020	Europe	Pending
SIO-0121JP	POLYMER PROCESS BAGS AND METHODS FOR MANUFACTURING THE SAME	2021539559 07-Jan-2020	Japan	Pending
SIO-0121US	POLYMER PROCESS BAGS AND METHODS FOR MANUFACTURING THE SAME	17420914 06-Jul-2021	United States	Pending
SIO-0123CA	POLYMER VIALS WITH SUBSTANTIALLY FLAT BOTTOMS AND INJECTION STRETCH BLOW MOLDING METHODS FOR MAKING THE SAME	3119648 13-Nov-2019	Canada	Pending
SIO-0123CN	POLYMER VIALS WITH SUBSTANTIALLY FLAT BOTTOMS AND INJECTION STRETCH BLOW MOLDING METHODS FOR MAKING THE SAME	201980088705.4 13-Nov-2019	China	Pending
SIO-0123EP	POLYMER VIALS WITH SUBSTANTIALLY FLAT BOTTOMS AND INJECTION STRETCH BLOW MOLDING METHODS FOR MAKING THE SAME	19817055.7 13-Nov-2019	Europe	Pending
SIO-0123JP	POLYMER VIALS WITH SUBSTANTIALLY FLAT BOTTOMS AND INJECTION STRETCH BLOW MOLDING METHODS FOR MAKING THE SAME	2021-525665 13-Nov-2019	Japan	Pending
SIO-0123US	POLYMER VIALS WITH SUBSTANTIALLY FLAT BOTTOMS AND INJECTION STRETCH BLOW MOLDING METHODS FORMAKING THE SAME	17293844 13-May-2021	United States	Pending
SIO-0125EP	Sterilizable Pre-Filled Pharmaceutical Packages Comprising A Liquid Formulation of VEGF-Antagonist	18731653.4 24-May-2018	Europe	Published
SIO-0125US	Sterilizable Pre-Filled Pharmaceutical Packages Comprising A Liquid Formulation of VEGF-Antagonist	16615969 24-May-2018	United States	Published
SIO-0126CA	Sterilizable Pharmaceutical Package For Ophthalmic Formulations	3063995 24-May-2018	Canada	Published
SIO-0126EP	Sterilizable Pharmaceutical Package For Ophthalmic Formulations	18734334.8 24-May-2018	Europe	Published
SIO-0126EPHK	Sterilizable Pharmaceutical Package For Ophthalmic Formulations	62020017184.6 02-Oct-2020	Hong Kong	Pending
SIO-0126US	Sterilizable Pharmaceutical Package For Ophthalmic Formulations	16616310 24-May-2018	United States	Published
SIO-0128USP5	Coated Vessels With Improved Barrier Properties	TBD TBD	United States	Pending
SIO-0130USP10	Blood Culture Bottle	TBD TBD	United States	Pending
SIO-0133US	CONTAINER AND CAP ASSEMBLY FOR CRYOGENIC STORAGE	17309723 16-Jun-2021	United States	Pending
SIO-0135CA	Polymeric Cell Culturing Surface Having High Cell Adhesion	3079191 19-Oct-2018	Canada	Published
SIO-0135CA2	Polymeric Cell Culturing Surface Having High Cell Adhesion	3106981 07-Dec-2018	Canada	Published
SIO-0135CN	Polymeric Cell Culturing Surface Having High Cell Adhesion	201880068084.9 19-Oct-2018	China	Published
SIO-0135CN2	Polymeric Cell Culturing Surface Having High Cell Adhesion	201880096071.2 07-Dec-2018	China	Published
SIO-0135EP	Polymeric Cell Culturing Surface Having High Cell Adhesion	18807751.5 19-Oct-2018	Europe	Published
SIO-0135EP2	Polymeric Cell Culturing Surface Having High Cell Adhesion	18819250.4 07-Dec-2018	Europe	Published

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0135JP	Polymeric Cell Culturing Surface Having High Cell Adhesion	2020522022 19-Oct-2018	Japan	Published
SIO-0135JP2	Polymeric Cell Culturing Surface Having High Cell Adhesion	2021507652 07-Dec-2018	Japan	Published
SIO-0135US	Polymeric Cell Culturing Surface Having High Cell Adhesion	16756525 19-Oct-2018	United States	Published
SIO-0135US2	Polymeric Cell Culturing Surface Having High Cell Adhesion	17268884 16-Feb-2021	United States	Pending
SIO-0139CA	STRETCHABLE PLUNGER ASSEMBLIES	3096847 09-Apr-2019	Canada	Pending
SIO-0139DESCA	Stretchable Plungers, Plunger Assemblies and Syringes	190533 08-Oct-2019	Canada	Pending
SIO-0139DESEU1	Stretchable Plungers, Plunger Assemblies and Syringes	007004197-00001 09-Oct-2019	Europe	Issued
SIO-0139DESEU2	Stretchable Plungers, Plunger Assemblies and Syringes	007004197-00002 09-Oct-2019	Europe	Issued
SIO-0139DESGB1	Stretchable Plungers, Plunger Assemblies and Syringes	90070041970001 08-Oct-2019	Great Britain	Issued
SIO-0139DESGB2	Stretchable Plungers, Plunger Assemblies and Syringes	90070041970002 08-Oct-2019	Great Britain	Issued
SIO-0139DESUS	Stretchable Plungers, Plunger Assemblies and Syringes	29708593 08-Oct-2019	United States	Pending
SIO-0139EP	Stretchable Plunger Assemblies	19719105.9 09-Apr-2019	Europe	Published
SIO-0139JP	STRETCHABLE PLUNGER ASSEMBLIES	2020555029 09-Apr-2019	Japan	Pending
SIO-0139US	Stretchable Plunger Assemblies	17046679 09-Oct-2020	United States	Published
SIO-0141CA	COMMON CONTACT SURFACES FOR USE IN THE MANUFACTURE, PACKAGING, DELIVERY, AND ASSESSMENT OF BIOPHARMACEUTICAL PRODUCTS	Not Yet Assigned 24-Jan-2020	Canada	Pending
SIO-0141CN	COMMON CONTACT SURFACES FOR USE IN THE MANUFACTURE, PACKAGING, DELIVERY, AND ASSESSMENT OF BIOPHARMACEUTICAL PRODUCTS	Not Yet Assigned 24-Jan-2020	China	Pending
SIO-0141EP	COMMON CONTACT SURFACES FOR USE IN THE MANUFACTURE, PACKAGING, DELIVERY, AND ASSESSMENT OF BIOPHARMACEUTICAL PRODUCTS	20711675.7 24-Jan-2020	Europe	Pending
SIO-0141JP	COMMON CONTACT SURFACES FOR USE IN THE MANUFACTURE, PACKAGING, DELIVERY, AND ASSESSMENT OF BIOPHARMACEUTICAL PRODUCTS	Not Yet Assigned 24-Jan-2020	Japan	Pending
SIO-0141PC	Common Contact Surfaces For Use In The Manufacture, Packaging, Delivery, And Assessment Of Biopharmaceutical Products	PCTUS2020015108 24-Jan-2020	WIPO	Published
SIO-0141PC2	COMMON CONTACT SURFACES FOR USE IN THE MANUFACTURE, PACKAGING, DELIVERY, AND ASSESSMENT OF BIOPHARMACEUTICAL PRODUCTS	PCTUS2021043845 30-Jul-2021	WIPO	Pending
SIO-0141US	COMMON CONTACT SURFACES FOR USE IN THE MANUFACTURE, PACKAGING, DELIVERY, AND ASSESSMENT OF BIOPHARMACEUTICAL PRODUCTS	17425361 23-Jul-2021	United States	Pending
SIO-0145CA	IMPROVED SYRINGE AND GASKET SYSTEMS	3122276 06-Dec-2019	Canada	Pending
SIO-0145CN	IMPROVED SYRINGE AND GASKET SYSTEMS	201980080954.9 06-Dec-2019	China	Pending
SIO-0145EP	IMPROVED SYRINGE AND GASKET SYSTEMS	19828490.3 06-Dec-2019	Europe	Pending
SIO-0145JP	IMPROVED SYRINGE AND GASKET SYSTEMS	2021-532428 06-Dec-2019	Japan	Pending

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0145PC	IMPROVED SYRINGE AND GASKET SYSTEMS	PCTUS2019065099 06-Dec-2019	WIPO	Published
SIO-0145US	IMPROVED SYRINGE AND GASKET SYSTEMS	17311540 07-Jun-2021	United States	Pending
SIO-0146PC	Biodegradable and Compostable Vessels, Such as Coffee Pods, Coated with PECVD Coatings or Layers	PCTUS2020026756 03-Apr-2020	WIPO	Pending
SIO-0148PC	BLOOD SAMPLE COLLECTION TUBE AND USES THEREOF	PCTUS2020055440 13-Oct-2020	WIPO	Published
SIO-0149US	VIAL	29712182 06-Nov-2019	United States	Pending
SIO-0151US	CAP, COLLECTION TUBE ASSEMBLY AND COMPONENTS THEREOF	29712186 06-Nov-2019	United States	Pending
SIO-0152US	LOGO FOR A LABAEL OF A VIAL OF A COLLECTION TUBE ASSEMBLY AND A COLLECTION TUBE ASSEMBLY	29712187 06-Nov-2019	United States	Pending
SIO-0153USP2	POLYMER VIALS HAVING STANDARD EXTERNAL DIMENSIONS AND REDUCED INTERNAL VOLUME	63116557 20-Nov-2020	United States	Pending
SIO-0156PC	NUCLEIC ACID AND CELL PRESERVATIVE COMPOSITIONS AND METHODS OF USE	PCTUS2021012844 08-Jan-2021	WIPO	Published
SIO-0157USP2	REDUCED FRICTION OIL-FREE SYRINGE PLUNGER FEEDING TUBES	63152799 23-Feb-2021	United States	Pending
SIO-0160PC	NUCLEIC ACID AND CELL PRESERVATIVE COMPOSITIONS AND METHODS OF USE	PCTUS2021027573 15-Apr-2021	WIPO	Pending
SIO-0163PC	PULSED PLASMA ENHANCED CHEMICAL VAPOR DEPOSITION PROCESS, SYSTEM, AND COATED VESSELS	PCTUS2021045819 12-Aug-2021	WIPO	Pending
SIO-0163USP	PULSED PLASMA ENHANCED CHEMICAL VAPOR DEPOSITION PROCESS, SYSTEM, AND COATED VESSELS	63064831 12-Aug-2020	United States	Pending
SIO-0164USP2	IMPROVED SYRINGE AND GASKET SYSTEMS	63197606 07-Jun-2021	United States	Pending
SIO-0165PC	ATOMIC LAYER DEPOSITION COATED PHARMACEUTICAL PACKAGING AND IMPROVED SYRINGES AND VIALS, E.G. FOR COLD-CHAIN DRUGS/VACCINES	PCTUS2021038548 22-Jun-2021	WIPO	Pending
SIO-0165USP2	ATOMIC LAYER DEPOSITION COATED PHARMACEUTICAL PACKAGING	63080675 18-Sep-2020	United States	Pending
SIO-0165USP3	ATOMIC LAYER DEPOSITION COATED PHARMACEUTICAL PACKAGING	63109232 03-Nov-2020	United States	Pending
SIO-0165USP4	ATOMIC LAYER DEPOSITION COATED PHARMACEUTICAL PACKAGING	63113808 13-Nov-2020	United States	Pending
SIO-0165USP5	ATOMIC LAYER DEPOSITION COATED PHARMACEUTICAL PACKAGING AND IMPROVED SYRINGES AND VIALS, E.G. FOR COLD-CHAIN DRUGS/VACCINES	63168580 31-Mar-2021	United States	Pending
SIO-0169PC	METHOD AND PACKAGE FOR REDUCING THE DEGRADATION OF A DRUG AND/OR EXCIPIENT, E.G. POLYSORBATE STABILIZER, IN A PHARMACEUTICAL PRODUCT	PCTUS2021043516 28-Jul-2021	WIPO	Pending
SIO-0169USP	PHARMACEUTICAL PACKAGE THAT REDUCES THE DEGRADATION OF A DRUG PRODUCT, INCLUDING PHARMACEUTICAL PACKAGE THAT REDUCES THE DEGRADATION OF POLYSORBATES IN A DRUG PRODUCT AND/OR REDUCES FREE FATTY ACID IMPURITIES IN A POLYSORBATE-STABILIZED DRUG PRODUCT	63087172 02-Oct-2020	United States	Pending
SIO-0169USP2	PHARMACEUTICAL PACKAGE THAT REDUCES THE DEGRADATION OF A DRUG PRODUCT, INCLUDING PHARMACEUTICAL PACKAGE THAT REDUCES THE DEGRADATION OF POLYSORBATES IN A DRUG PRODUCT AND/OR REDUCES FREE FATTY ACID IMPURITIES IN A POLYSORBATE-STABILIZED DRUG PRODUCT	63165664 24-Mar-2021	United States	Pending
SIO-0171PC	PACKAGES COMPRISING ANTI-MICROBIAL COATINGS FOR PREVENTING CONTAMINATION, E.G. AFTER FIRST USE OF THE PRODUCT	PCTUS2021037667 16-Jun-2021	WIPO	Pending

Reference	Title	Appl. No./Filing Date Pat. No./Issue Date	Country	Status
SIO-0171USP	PACKAGES COMPRISING ANTI-MICROBIAL COATINGS FOR PREVENTING CONTAMINATION, E.G. AFTER FIRST USE OF THE PRODUCT	63125231 14-Dec-2020	United States	Pending
SIO-0172USP	Compositions for Collection, Transport and Storage of Biological Specimens	63123099 09-Dec-2020	United States	Pending
SIO-0174USP	METHODS AND SYSTEMS FOR INSPECTING READY-TO-USE PHARMACEUTICAL CONTAINERS FOR PARTICLES AND DEFECTS	63128002 18-Dec-2020	United States	Pending
SIO-0174USP2	METHODS AND SYSTEMS FOR INSPECTING READY-TO-USE PHARMACEUTICAL CONTAINERS FOR PARTICLES AND DEFECTS	63133604 04-Jan-2021	United States	Pending
SIO-0176USP	Pharmaceutical Packages that Reduce Binding of Lipid Nano Particles in mRNA Drug Formulations	63130299 23-Dec-2020	United States	Pending
SIO-0176USP2	Pharmaceutical Packages that Reduce Binding and Degradation of Lipid Nano Particles of Encapsulated mRNA Drug Formulations	63134147 05-Jan-2021	United States	Pending
SIO-0176USP3	Pharmaceutical Packages that Reduce Binding and Degradation of Lipid Nano Particles of Encapsulated mRNA Drug Formulations	63229890 05-Aug-2021	United States	Pending
SIO-0176USP4	Pharmaceutical Packages that Reduce Binding and Degradation of Lipid Nano Particles of Encapsulated mRNA Drug Formulations	63231366 10-Aug-2021	United States	Pending
SIO-0178USP	Silicone Oil-Free Syringe for Ophthalmic Drug Delivery	63140783 22-Jan-2021	United States	Pending
SIO-0180USP	Drug Primary Package Having Integrated RFID Tag	63187385 11-May-2021	United States	Pending
SIO-0180USP2	Drug Primary Package Having Integrated RFID Tag	63215879 28-Jun-2021	United States	Pending
SIO-0181USP	PLUNGERS, PLUNGER ASSEMBLIES AND SYRINGES	63191909 21-May-2021	United States	Pending
SIO-0182USP	Authentication of Pharmaceutical Packages using Rare Earth Doped Nanoparticle Crystals	63192547 24-May-2021	United States	Pending
SIO-0182USP2	Authentication of Pharmaceutical Packages using Rare Earth Doped Nanoparticle Crystals	63213698 23-Jun-2021	United States	Pending
SIO-0182USP3	Authentication of Pharmaceutical Packages using Rare Earth Doped Nanoparticle Crystals	63214110 23-Jun-2021	United States	Pending
SIO-0185USP	NUCLEIC ACID AND CELL PRESERVATIVE COMPOSITIONS AND METHODS	63217754 01-Jul-2021	United States	Pending
SIO-0185USP2	NUCLEIC ACID AND CELL PRESERVATIVE COMPOSITIONS AND METHODS	63222394 15-Jul-2021	United States	Pending