

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4543660

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	SECURITY INTEREST	
CONVEYING PARTY DATA		
Name		Execution Date
BIOQ PHARMA INCORPORATED		08/09/2017
RECEIVING PARTY DATA		
Name:	MADRYN HEALTH PARTNERS, LP	
Street Address:	140 EAST 45TH STREET, 15TH FLOOR	
Internal Address:	C/O MADRYN ASSET MANAGEMENT, LP	
City:	NEW YORK	
State/Country:	NEW YORK	
Postal Code:	10017	
PROPERTY NUMBERS Total: 78		
Property Type	Number	
Application Number:	10855436	
Application Number:	12456153	
Application Number:	10855425	
Application Number:	11805128	
Application Number:	10634625	
Application Number:	11804561	
Application Number:	10634487	
Application Number:	10854830	
Application Number:	10855446	
Application Number:	12930128	
Application Number:	60654268	
Application Number:	11353593	
Application Number:	60654440	
Application Number:	11353598	
Application Number:	60654671	
Application Number:	11353761	
Application Number:	11317805	
Application Number:	12008159	
Application Number:	12384635	

Property Type	Number
Application Number:	60783182
Application Number:	11725222
Application Number:	12925980
Application Number:	60783019
Application Number:	11725220
Application Number:	11980963
Application Number:	12930136
Application Number:	60811228
Application Number:	11807158
Application Number:	60834766
Application Number:	11823084
Application Number:	11982719
Application Number:	12215933
Application Number:	12455617
Application Number:	60834770
Application Number:	11888734
Application Number:	11888735
Application Number:	11982644
Application Number:	12802054
Application Number:	12799891
Application Number:	12231556
Application Number:	12316972
Application Number:	12317025
Application Number:	12455645
Application Number:	13935524
Application Number:	12288095
Application Number:	12928147
Application Number:	12288115
Application Number:	12455646
Application Number:	12928146
Application Number:	12925076
Application Number:	12798656
Application Number:	12455618
Application Number:	12587442
Application Number:	12587472
Application Number:	12925072
Application Number:	29348593
Application Number:	12800356

Property Type	Number
Application Number:	14876370
Application Number:	29539021
Application Number:	14455891
Application Number:	14593720
Application Number:	15041157
PCT Number:	US0518495
PCT Number:	US0425014
PCT Number:	US2004025255
PCT Number:	US2007004120
PCT Number:	US2007003933
PCT Number:	US2008003329
PCT Number:	US2008003328
PCT Number:	US2008007945
PCT Number:	US2008082039
PCT Number:	US2009055499
PCT Number:	US2009060516
PCT Number:	US2009060514
PCT Number:	US2011000849
PCT Number:	US2015023747
PCT Number:	US2015052879
PCT Number:	US2016033186

CORRESPONDENCE DATA

Fax Number: (704)339-5800

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: 7043311000

Email: damionnenobles@mvalaw.com

Correspondent Name: MOORE & VAN ALLEN PLLC

Address Line 1: 3015 CARRINGTON MILL BLVD., SUITE 400

Address Line 2: POST OFFICE BOX 13706

Address Line 4: RESEARCH TRIANGLE PA, NORTH CAROLINA 27709

ATTORNEY DOCKET NUMBER:	043094-000006
NAME OF SUBMITTER:	PETER B. STEWART
SIGNATURE:	/Peter B. Stewart/
DATE SIGNED:	08/09/2017

Total Attachments: 11

source=Executed-IP-Notice-Patents-BioQ Pharma#page1.tif

source=Executed-IP-Notice-Patents-BioQ Pharma#page2.tif

source=Executed-IP-Notice-Patents-BioQ Pharma#page3.tif

source=Executed-IP-Notice-Patents-BioQ Pharma#page4.tif
source=Executed-IP-Notice-Patents-BioQ Pharma#page5.tif
source=Executed-IP-Notice-Patents-BioQ Pharma#page6.tif
source=Executed-IP-Notice-Patents-BioQ Pharma#page7.tif
source=Executed-IP-Notice-Patents-BioQ Pharma#page8.tif
source=Executed-IP-Notice-Patents-BioQ Pharma#page9.tif
source=Executed-IP-Notice-Patents-BioQ Pharma#page10.tif
source=Executed-IP-Notice-Patents-BioQ Pharma#page11.tif

NOTICE
OF
GRANT OF SECURITY INTEREST
IN
PATENTS

United States Patent and Trademark Office

Ladies and Gentlemen:

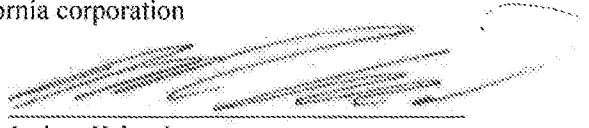
Please be advised that pursuant to the Security Agreement dated as of August 9, 2017 (as the same may be amended, modified, restated or supplemented from time to time, the "Security Agreement") by and among the Grantors party thereto (each a "Grantor" and collectively, the "Grantors") and Madryn Health Partners, LP, as Administrative Agent (the "Administrative Agent") for the Secured Parties referenced therein, the undersigned Grantor has granted a continuing security interest in and continuing lien upon, the patents, patent licenses and patent applications set forth on Schedule 1 attached hereto to the Administrative Agent for the ratable benefit of the Secured Parties.

The undersigned Grantor and the Administrative Agent, on behalf of the Secured Parties, hereby acknowledge and agree that the security interest in the patents, patent licenses and patent applications set forth on Schedule 1 attached hereto (i) may only be terminated in accordance with the terms of the Security Agreement and (ii) is not to be construed as an assignment of any patent, patent license or patent application.

[Signature pages follow]

Very truly yours,

BIOQ PHARMA INCORPORATED,
a California corporation

By: 

Name: Joshua Kriesel

Title: President, Chief Executive Officer and Secretary

BIOQ PHARMA INCORPORATED
IP NOTICE (PATENTS)

PATENT
REEL: 043507 FRAME: 0949

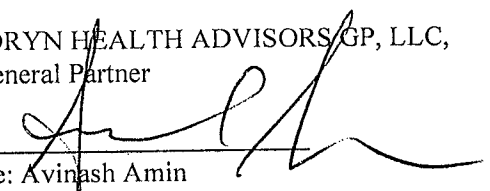
Acknowledged and Accepted:

ADMINISTRATIVE AGENT:

MADRYN HEALTH PARTNERS, LP,
a Delaware limited partnership

By: MADRYN HEALTH ADVISORS, LP,
its General Partner

By: MADRYN HEALTH ADVISORS GP, LLC,
its General Partner

By: 
Name: Avinash Amin
Title: Member

BIOQ PHARMA INCORPORATED
IP NOTICE (PATENTS)

PATENT
REEL: 043507 FRAME: 0950

Schedule 1

Patent Rights

<i>Loan Party</i>	<i>Jurisdiction</i>	<i>Title</i>	<i>Application Number</i>	<i>Filing Date</i>	<i>Patent Number</i>	<i>Issue Date</i>
BioQ Pharma Incorporated	USA	Fluid delivery device	10/855,436	05/26/2004		
BioQ Pharma Incorporated	USA	Fluid delivery device	12/456,153	06/12/2009	8,231,575	07/31/2012
BioQ Pharma Incorporated	USA	Infusion apparatus	10/855,425	05/26/2004	7,220,245	05/22/2007
BioQ Pharma Incorporated	USA	Infusion apparatus	11/805,128	03/21/2007		
BioQ Pharma Incorporated	USA	Infusion apparatus with constant force spring energy source	10/634,625	08/04/2003	7,220,244	05/22/2007
BioQ Pharma Incorporated	USA	Infusion apparatus with constant force spring energy source	11/804,561	05/18/2007	7,789,853	09/07/2010
BioQ Pharma Incorporated	USA	Multichannel fluid delivery device	10/634,487	08/04/2003	7,169,128	01/30/2007
BioQ Pharma Incorporated	USA	Fluid delivery apparatus with adjustable flow rate control	10/854,830	05/26/2004	7,470,253	12/30/2008
BioQ Pharma Incorporated	USA	Fluid delivery apparatus with bellows reservoir	10/855,446	05/26/2004		
BioQ Pharma Incorporated	USA	Fluid delivery apparatus with bellows reservoir	12/930,128	12/29/2010	8,377,043	02/19/2013
BioQ Pharma Incorporated	USA	Fluid delivery and mixing apparatus with flow rate control	60/654,268	02/15/2005		
BioQ Pharma Incorporated	USA	Fluid delivery and mixing apparatus with	11/353,593	02/13/2006	8,029,468	10/04/2011

		flow rate control				
BioQ Pharma Incorporated	USA	Distal rate control device	60/654,440	02/17/2005		
BioQ Pharma Incorporated	USA	Distal rate control device	11/353,598	02/13/2006	7,694,938	04/13/2010
BioQ Pharma Incorporated	USA	Fluid delivery apparatus with vial fill	60/654,671	02/18/2005		
BioQ Pharma Incorporated	USA	Fluid delivery apparatus with vial fill	11/353,761	02/13/2006	7,837,653	11/23/2010
BioQ Pharma Incorporated	USA	Fluid flow control device	11/317,805	12/23/2005	7,316,245	01/08/2008
BioQ Pharma Incorporated	USA	Fluid flow control device	12/008,159	01/07/2008	7,513,273	04/07/2009
BioQ Pharma Incorporated	USA	Fluid flow control device	12/384,635	04/06/2009	7,735,522	06/15/2010
BioQ Pharma Incorporated	USA	Fluid dispensing device	60/783,182	03/15/2006		
BioQ Pharma Incorporated	USA	Fluid dispensing device	11/725,222	03/14/2007	7,828,772	11/09/2010
BioQ Pharma Incorporated	USA	Fluid dispensing device	12/925,980	11/03/2010	8,672,885	03/18/2014
BioQ Pharma Incorporated	USA	Fluid dispensing apparatus	60/783,019	03/15/2006		
BioQ Pharma Incorporated	USA	Fluid dispensing apparatus	11/725,220	03/14/2007	7,993,304	08/09/2011
BioQ Pharma Incorporated	USA	Fluid dispensing apparatus	11/980,963	10/30/2007	7,833,195	11/16/2010
BioQ Pharma Incorporated	USA	Fluid dispensing apparatus	12/930,136	12/29/2010		
BioQ Pharma Incorporated	USA	Fluid flow control device	60/811,228	06/05/2006		
BioQ Pharma Incorporated	USA	Fluid flow control device	11/807,158	05/24/2007	7,481,244	01/27/2009
BioQ Pharma Incorporated	USA	Fluid dispensing device with additive	60/834,766	07/31/2006		
BioQ Pharma Incorporated	USA	Fluid dispensing	11/823,084	06/25/2007	8,292,848	10/23/2012

		device with additive				
BioQ Pharma Incorporated	USA	Fluid dispenser with additive sub-system	11/982,719	10/31/2007		
BioQ Pharma Incorporated	USA	Fluid dispenser with additive sub-system	12/215,933	06/30/2008	8,211,059	07/03/2012
BioQ Pharma Incorporated	USA	Fluid dispenser with additive sub-system	12/455,617	06/03/2009	8,226,609	07/24/2012
BioQ Pharma Incorporated	USA	Fluid dispenser	60/834,770	07/31/2006		
BioQ Pharma Incorporated	USA	Fluid dispenser	11/888,734	07/31/2007		
BioQ Pharma Incorporated	USA	Fluid dispenser	11/888,735	07/31/2007	8,057,435	11/15/2011
BioQ Pharma Incorporated	USA	Fluid delivery device with variable force spring	11/982,644	10/31/2007	7,828,770	11/09/2010
BioQ Pharma Incorporated	USA	Fluid delivery device with variable force spring	12/802,054	05/28/2010	8,114,052	02/14/2012
BioQ Pharma Incorporated	USA	Fluid delivery device with variable force spring	12/799,891	05/03/2010	8,123,723	02/28/2012
BioQ Pharma Incorporated	USA	Two part fluid dispenser	12/231,556	09/03/2008	8,480,656	07/09/2013
BioQ Pharma Incorporated	USA	Two part fluid dispenser with twin reservoir	12/316,972	12/17/2008	8,083,717	12/27/2011
BioQ Pharma Incorporated	USA	Two part fluid dispenser	12/317,025	12/17/2008		
BioQ Pharma Incorporated	USA	Two part fluid dispenser	12/455,645	06/03/2009	8,622,965	01/07/2014
BioQ Pharma Incorporated	USA	Two part fluid dispenser	13/935,524	07/04/2013		
BioQ Pharma Incorporated	USA	Special purpose fluid dispenser	12/288,095	10/15/2008	7,896,843	03/01/2011
BioQ Pharma Incorporated	USA	Special purpose fluid dispenser	12/928,147	12/02/2010	8,317,753	11/27/2012
BioQ Pharma Incorporated	USA	Special purpose fluid dispenser with	12/288,115	10/15/2008	8,100,890	01/24/2012

		pre-filled reservoir				
BioQ Pharma Incorporated	USA	Special purpose fluid dispenser with pre-filled reservoir	12/455,646	06/03/2009	8,287,521	10/16/2012
BioQ Pharma Incorporated	USA	Special purpose fluid dispenser with pre-filled reservoir	12/928,146	12/02/2010	8,292,876	10/23/2012
BioQ Pharma Incorporated	USA	Fluid dispenser	12/925,076	10/12/2010	8,142,398	03/27/2012
BioQ Pharma Incorporated	USA	Fluid dispenser	12/798,656	04/07/2010	8,403,887	03/26/2013
BioQ Pharma Incorporated	USA	Pain management dispenser	12/455,618	06/03/2009	8,197,445	06/12/2012
BioQ Pharma Incorporated	USA	Fluid dispenser with non-electric fluid heating component	12/587,442	10/06/2009	8,388,571	03/05/2013
BioQ Pharma Incorporated	USA	Non-electric fluid heating component for use with fluid dispenser	12/587,472	10/06/2009	8,388,578	03/05/2013
BioQ Pharma Incorporated	USA	Medicament dispenser	12/925,072	10/12/2010	8,133,204	03/13/2012
BioQ Pharma Incorporated	USA	Container	29/348,593	01/20/2010	D636271	04/19/2011
BioQ Pharma Incorporated	USA	Apparatus for dispensing medicinal fluids and method of making same	12/800,356	05/12/2010	8,821,454	09/02/2014
BioQ Pharma Incorporated	USA	Apparatus for dispensing medicinal fluids and method of making same	14/876,370	10/06/2015	9,669,163	06/06/2017
BioQ Pharma Incorporated	USA	Liquid Medicament Dosage Control and	29/539,021	09/10/2015	D770034	10/25/2016

		Delivery Device				
BioQ Pharma Incorporated	USA	Apparatus for dispensing medicinal fluids and method of making same	14/455,891	08/09/2014		
BioQ Pharma Incorporated	USA	Sterile Assembled Liquid Medicament Dosage Control and Delivery Device	14/593,720	01/09/2015		
BioQ Pharma Incorporated	USA	Unified Drug Mixer and Dispenser	15/041157	02/11/2016		
BioQ Pharma Incorporated	PCT	Infusion apparatus	PCT/US05/018495	05/25/2005		
BioQ Pharma Incorporated	PCT	Infusion apparatus with constant force spring energy source	PCT/US04/25014	08/04/2004		
BioQ Pharma Incorporated	EPO	Infusion apparatus with constant force spring energy source	EP2004779935.8	08/04/2004		
BioQ Pharma Incorporated	China	Infusion apparatus with constant force spring energy source	CN2004828947	08/04/2004	CN1863570A	02/03/2010
BioQ Pharma Incorporated	PCT	Multichannel fluid delivery device	PCT/US2004/025255	08/04/2004		
BioQ Pharma Incorporated	PCT	Distal rate control device	PCT/US2007/004120	02/13/2007		
BioQ Pharma Incorporated	PCT	Fluid delivery apparatus with vial fill	PCT/US2007/003933	02/13/2007		
BioQ Pharma Incorporated	PCT	Fluid dispensing device	PCT/US2008/003329	03/12/2008		
BioQ Pharma Incorporated	PCT	Fluid dispensing apparatus	PCT/US2008/003328	03/12/2008		

BioQ Pharma Incorporated	EPO	Fluid dispensing apparatus	08726790	03/12/2008	EP2134389	10/19/2016
BioQ Pharma Incorporated	ES	Fluid dispensing apparatus	20080726790T	03/12/08		
BioQ Pharma Incorporated	PCT	Fluid dispensing device with additive	PCT/US2008/007945	06/26/2008		
BioQ Pharma Incorporated	PCT	Fluid delivery device with variable force spring	PCT/US2008/082039	10/31/2008		
BioQ Pharma Incorporated	India	Fluid delivery device with variable force spring	3546/DELNP/2010	05/19/2010		
BioQ Pharma Incorporated	UAE	Fluid delivery device with variable force spring	UAE 505/2010		GC1011357	
BioQ Pharma Incorporated	PCT	Two part fluid dispenser	PCT/US2009/055499	08/31/2009		
BioQ Pharma Incorporated	EPO	Two part fluid dispenser	EP20090812089	08/31/2009		
BioQ Pharma Incorporated	PCT	Special purpose fluid dispenser	PCT/US2009/060516	10/13/2009		
BioQ Pharma Incorporated	PCT	Special purpose fluid dispenser with pre-filled reservoir	PCT/US2009/060514	10/13/2009		
BioQ Pharma Incorporated	PCT	Apparatus for dispensing medicinal fluids & method of making same	PCT/US2011/000849	05/12/2011		
BioQ Pharma Incorporated	Japan	Apparatus for dispensing medicinal fluids and method of making same	JP2013526333	05/12/2011	JP5885267	01/06/2016
BioQ Pharma Incorporated	PCT	Apparatus for dispensing medicinal fluids and	PCT/US2015/023747	04/01/2015		

		method of making same				
BioQ Pharma Incorporated	EPO	Apparatus for dispensing medicinal fluids and method of making same	15831341.1	04/01/2015		
BioQ Pharma Incorporated	Canada	Apparatus for dispensing medicinal fluids and method of making same	CA20152933903	04/01/2015		
BioQ Pharma Incorporated	Australia	Apparatus for dispensing medicinal fluids and method of making same	AU2015302297	04/01/2015		
BioQ Pharma Incorporated	PCT	Sterile Assembled Liquid Medicament Dosage Control and Delivery Device	PCT/US2015/052879	09/29/2015		
BioQ Pharma Incorporated	EPO	Sterile Assembled Liquid Medicament Dosage Control and Delivery Device	EP20150877284	09/29/2015		
BioQ Pharma Incorporated	China	Sterile Assembled Liquid Medicament Dosage Control and Delivery Device	CN 201580009638	09/29/2015		
BioQ Pharma Incorporated	Japan	Sterile Assembled Liquid Medicament Dosage Control and	100121728			

		Delivery Device				
BioQ Pharma Incorporated	Canada	Sterile Assembled Liquid Medicament Dosage Control and Delivery Device	CA20152935172	09/29/2015		
BioQ Pharma Incorporated	India	Sterile Assembled Liquid Medicament Dosage Control and Delivery Device	201717011918			
BioQ Pharma Incorporated	UAE	Sterile Assembled Liquid Medicament Dosage Control and Delivery Device	UAE 884/2016	07/25/2016		
BioQ Pharma Incorporated	Australia	Sterile Assembled Liquid Medicament Dosage Control and Delivery Device	AU20150375444	09/29/2015		
BioQ Pharma Incorporated	PCT	Unified Drug Mixer and Dispenser	PCT/US2016/033186			
BioQ Pharma Incorporated	EPO	Unified Drug Mixer and Dispenser	16865279.0			
BioQ Pharma Incorporated	Australia	Unified Drug Mixer and Dispenser	2016354805			