

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM492075

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
Global Plasma Solutions, Inc.		09/21/2018	Corporation: DELAWARE
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	Fidus Investment Corporation		
<b>Street Address:</b>	1603 Orrington Ave., Suite 1005		
<b>City:</b>	Evanston		
<b>State/Country:</b>	ILLINOIS		
<b>Postal Code:</b>	60201		
<b>Entity Type:</b>	Corporation: MARYLAND		
<b>PROPERTY NUMBERS Total: 7</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Registration Number:</b>	4906396	GLOBAL PLASMA SOLUTIONS	
<b>Registration Number:</b>	4917288	GPS	
<b>Serial Number:</b>	87211696	IFLEX	
<b>Serial Number:</b>	87213285	IMOD	
<b>Serial Number:</b>	87211682	IVORTEX	
<b>Registration Number:</b>	5498630	IWAVE	
<b>Registration Number:</b>	5139061	SYNTHETIC WAVE TECHNOLOGY	
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>	7043784000		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>			
<b>Phone:</b>	7043778156		
<b>Email:</b>	JCarusone@robinsonbradshaw.com		
<b>Correspondent Name:</b>	Jennifer Carusone		
<b>Address Line 1:</b>	101 N. Tryon St., Ste 1900		
<b>Address Line 2:</b>	Robinson, Bradshaw & Hinson, P.A.		
<b>Address Line 4:</b>	Charlotte, NORTH CAROLINA 28246		
<b>NAME OF SUBMITTER:</b>	Jennifer Carusone		
<b>SIGNATURE:</b>	/Jennifer Carusone/		
<b>DATE SIGNED:</b>	10/01/2018		

CH \$190.00 4906396

**Total Attachments: 4**

source=Fidus - GPS - IP Security Agreement#page1.tif

source=Fidus - GPS - IP Security Agreement#page2.tif

source=Fidus - GPS - IP Security Agreement#page3.tif

source=Fidus - GPS - IP Security Agreement#page4.tif

**GRANT OF SECURITY INTEREST  
IN PATENTS AND TRADEMARKS**


**WHEREAS, GLOBAL PLASMA SOLUTIONS, INC.**, a Delaware corporation (the “Pledgor”) is the owner of the trademark applications and registrations listed on Schedule A attached hereto, (all such trademarks, registrations and applications, collectively, the “Trademarks”) and is the owner of the patents and patent applications listed on Schedule A attached hereto (all such patents, registrations and applications, collectively, the “Patents”); and

**WHEREAS**, the Pledgor has entered into a Pledge and Security Agreement (as amended, modified, restated or supplemented from time to time, the “Security Agreement”), dated as of September 21, 2018, in which the Pledgor has agreed with **FIDUS INVESTMENT CORPORATION**, as Collateral Agent (the “Collateral Agent”), with offices at 1603 Orrington Avenue, Suite 1005, Evanston, IL 60201, to execute this Grant;

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, as security for the payment and performance of the Secured Obligations (as defined in the Security Agreement), the Pledgor does hereby grant to the Collateral Agent a security interest in all of its right, title and interest in and to the Trademarks and the Patents, and the use thereof, together with all proceeds and products thereof and the goodwill of the businesses symbolized by the Trademarks. This Grant has been given in conjunction with the security interest granted to the Collateral Agent under the Security Agreement, and the provisions of this Grant are without prejudice to and in addition to the provisions of the Security Agreement, which are incorporated herein by this reference (including the termination provisions of Section 8.5 thereof).

[Remainder of page left blank intentionally; signature page follows.]

**GLOBAL PLASMA SOLUTIONS, INC.**

By:   
Name: W. Edwin McMahan, Jr.  
Title: Secretary

**Schedule A**

**TRADEMARKS AND TRADEMARK APPLICATIONS**

<b>Mark Name</b>	<b>Current Appl. No.</b>	<b>Application Date</b>	<b>Current Reg. No.</b>	<b>Current Reg. Date</b>	<b>Country / Region</b>	<b>Owner</b>
GLOBAL PLASMA SOLUTIONS	86/499,600	1/9/2015	4,906,396	2/23/2016	United States - (US)	Pledgor
GPS (Mark in two classes)	86/498,615	1/8/2015	4,917,288	3/15/2016	United States - (US)	Pledgor
iFLEX	87/211/696	10/21/2016			United States - (US)	Pledgor
IMOD	87/213,285	10/24/2016	5,491,631	6/19/2018	United States - (US)	Pledgor
iVORTEX	87/211,682	10/21/2016			United States - (US)	Pledgor
iWAVE	87/211,709	10/21/2016	5,498,630	6/19/2018	United States - (US)	Pledgor
SYNTHETIC WAVE TECHNOLOGY	86/498,348	1/8/2015	5,139,061	2/7/2017	United States - (US)	Pledgor

**PATENTS AND PATENT APPLICATIONS**

<b>Title</b>	<b>Application No.</b>	<b>Application Date</b>	<b>Patent No.</b>	<b>Grant Date</b>	<b>Country/Region</b>	<b>Owner</b>
BIPOLAR IONIZATION DEVICE	13/188,764	7/22/2011	8,861,167	10/14/2014	United States - (US)	Pledgor
ION GENERATION DEVICE	13/918,282	6/14/2013	9,441,845	9/13/2016	United States - (US)	Pledgor
ION GENERATION DEVICE	15/238,082	8/16/2016			United States - (US)	Pledgor
ION GENERATION DEVICE	14/722,355	5/27/2015	9,551,497	1/24/2017	United States - (US)	Pledgor
ION GENERATION DEVICE	PCT/US13/045887	6/14/2013			Patent Cooperation Treaty - (WO)	Pledgor
ION DETECTOR FOR MEASURING ION OUTPUT	14/165,071	1/27/2014	10,073,055	9/11/2018	United States - (US)	Pledgor
SYSTEMS AND METHODS OF AIR TREATMENT USING BIPOLAR IONIZATION	12/578,753	10/14/2009	8,564,924 B1	10/22/2013	United States - (US)	Pledgor
ION GENERATOR MOUNTING DEVICE	14/480,164	9/8/2014	9,168,538	10/27/2015	United States - (US)	Pledgor
ION GENERATOR MOUNTING DEVICE	14/861,469	9/22/2015	9,478,948	10/25/2016	United States - (US)	Pledgor
ION GENERATOR MOUNTING	15/268,717	9/19/2016	9,925,292	3/27/2018	United States - (US)	Pledgor

DEVICE						
ION GENERATOR MOUNTING DEVICE	15/896,395	2/14/2018			United States - (US)	Pledgor
ION GENERATION DEVICE	14/021,507	9/9/2013	9,025,303	5/5/2015	United States - (US)	Pledgor
ION GENERATION DEVICE	14/480,120	9/8/2014	9,289,779	3/22/2016	United States - (US)	Pledgor
ION GENERATOR DEVICE	15/040,087	2/10/2016	9,509,125	11/29/2016	United States - (US)	Pledgor
ION GENERATOR DEVICE	15/293,519	10/14/2016	9,839,714	12/12/2017	United States - (US)	Pledgor
ION GENERATOR DEVICE	15/804,618	11/6/2017			United States - (US)	Pledgor
ION GENERATOR DEVICE	14/036,882	9/25/2013	8,861,168	10/14/2014	United States - (US)	Pledgor
SELF CLEANING ION GENERATOR	14/971,050	12/16/2015	9,925,567	3/27/2018	United States - (US)	Pledgor
SELF CLEANING ION GENERATOR	15/297,638	10/19/2016			United States - (US)	Pledgor
SELF CLEANING ION GENERATOR DEVICE	15/896,854	2/14/2018			United States - (US)	Pledgor
ION GENERATION DEVICE HAVING ATTACHMENT DEVICES	15/297,547	10/19/2016			United States - (US)	Pledgor
FLEXIBLE ION GENERATION DEVICE	15/412,825	1/23/2017	9,849,208	12/26/2017	United States - (US)	Pledgor
FLEXIBLE ION GENERATION DEVICE	15/816,027	11/17/2017			United States - (US)	Pledgor
MODULAR ION GENERATOR DEVICE	15/670,219	8/7/2017	10,020,180	7/10/2018	United States - (US)	Pledgor
MODULAR ION GENERATOR DEVICE	16/003,327	6/8/2018			United States - (US)	Pledgor
ION GENERATOR DEVICE	29/613,054	8/7/2017			United States - (US)	Pledgor
ION GENERATOR DEVICE	29/613,069	8/7/2017			United States - (US)	Pledgor
SELF-CLEANING ION GENERATOR DEVICE	62/629,295	2/12/2018			United States - (US)	Pledgor
ION GENERATOR MOUNTING DEVICE	14/036,173	9/25/2013	8,873,215	<u>10/28/2014</u>	United States - (US)	Pledgor