

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3612229

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
FREEDOM SCIENTIFIC BLV GROUP, LLC, AS A GRANTOR	11/11/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE GOVERNOR AND COMPANY OF THE BANK OF IRELAND, AS COLLATERAL AGENT
<b>Street Address:</b>	300 FIRST STAMFORD PLACE
<b>City:</b>	STAMFORD
<b>State/Country:</b>	CONNECTICUT
<b>Postal Code:</b>	06902
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	5685720
<b>Patent Number:</b>	5718588
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(212)294-4700
<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>	2122946635
<b>Email:</b>	dkumar@winston.com
<b>Correspondent Name:</b>	WINSTON & STRAWN LLP - SONAKSHI JHA
<b>Address Line 1:</b>	200 PARK AVENUE
<b>Address Line 4:</b>	NEW YORK, NEW YORK 10166-4193
<b>ATTORNEY DOCKET NUMBER:</b>	86703/31 1ST L- FS BLV G
<b>NAME OF SUBMITTER:</b>	SONAKSHI JHA
<b>SIGNATURE:</b>	/Sonakshi Jha/
<b>DATE SIGNED:</b>	11/11/2015
<b>Total Attachments: 5</b>	
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**FIRST LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT**

This **FIRST LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT** (this “**Agreement**”) is made as of November 10, 2015 (the “**Effective Date**”) between the signatory hereto (the “**Grantor**”) in favor of **THE GOVERNOR AND COMPANY OF THE BANK OF IRELAND**, as collateral agent for the Secured Parties (in such capacity, the “**Collateral Agent**”) (as defined in the Pledge and Security Agreement referred to below).

**RECITALS:**

**WHEREAS**, reference is made to that certain First Lien U.S. Pledge and Security Agreement, dated as of November 10, 2015 (as it may be amended, restated, supplemented or otherwise modified from time to time, the “**Pledge and Security Agreement**”), by and among the Grantor, the other grantors party thereto and the Collateral Agent; and

**WHEREAS**, under the terms of the Pledge and Security Agreement, the Grantor has (i) as collateral security for the Secured Obligations, granted to the Collateral Agent a security interest in and continuing lien on all of the Grantor’s right, title and interest in, to and under the Collateral (as defined in the Pledge and Security Agreement), including, without limitation, certain Intellectual Property of the Grantor and (ii) agreed to execute this Agreement for recording with the United States Patent and Trademark Office and other applicable Governmental Authorities.

**NOW, THEREFORE**, in consideration of the premises and the agreements, provisions and covenants herein contained, the Grantor and the Collateral Agent agree as follows:

**Section 1. Grant of Security.** As collateral security for the Secured Obligations, the Grantor hereby grants to the Collateral Agent a security interest in and continuing lien on all of Grantor’s right, title and interest in, to and under the Collateral (as defined in the Pledge and Security Agreement):

(a) All U.S. and foreign patents and certificates of invention, or similar industrial property, design or plant rights, for any of the foregoing, including, but not limited to: (i) all registrations, provisional and applications referred to in **Schedule 1** hereto; (ii) all reissues, divisions, continuations, continuations-in-part, extensions, renewals, and reexaminations therefor; (iii) all rights corresponding thereto throughout the world; (iv) all inventions and improvements described therein; (v) all rights to sue for past, present and future infringements thereof; (vi) all licenses, claims, damages, and proceeds of suit arising therefrom; and (vii) all Proceeds of the foregoing, including royalties, income, payments, claims, damages, and proceeds of suit (collectively, the “**Patents**”).

(b) All U.S., and foreign trademarks, trade names, corporate names, company names, business names, fictitious business names, Internet domain names, service marks, certification marks, collective marks, logos, other source or business identifiers, designs and general intangibles of a like nature, all registrations and applications for any of the foregoing including, but not limited to (i) the registrations and applications referred to in **Schedule 1** hereto, (ii) all extensions or renewals of any of the foregoing, (iii) all of the goodwill of the business associated with the use of and symbolized by the foregoing, (iv) the right to sue for past, present and future infringement or dilution of any of the foregoing or for any injury to goodwill, and (v) all Proceeds of the foregoing, including royalties, income, payments, claims, damages, and proceeds of suit (collectively, the “**Trademarks**”).

**Section 2. Recordation.** The Grantor authorizes and requests that the Commissioner of Patents and Trademarks and any other applicable government officer record this Agreement.

**Section 3. Counterparts.** This Agreement may be executed in counterparts (and by different parties hereto in different counterparts), each of which shall constitute an original, but all of which when taken together shall constitute a single contract. Delivery of an executed counterpart of a signature page of this Agreement by facsimile or in electronic (*i.e.*, “pdf” or “tif”) format shall be effective as delivery of a manually executed counterpart of this Agreement.

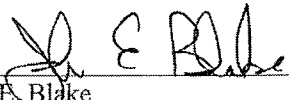
**Section 4. Governing Law.** This Agreement and any claims, controversy, dispute or cause of action (whether in contract or tort or otherwise) based upon, arising out of or relating to this Agreement and the transactions contemplated hereby and thereby shall be governed by, and construed in accordance with, the law of the State of New York.

**Section 5. Conflict Provision.** This Agreement has been entered into in conjunction with the provisions of the Pledge and Security Agreement and the Credit Agreement. The rights and remedies of each party hereto with respect to the security interest granted herein are without prejudice to, and are in addition to those set forth in the Pledge and Security Agreement and the Credit Agreement, all terms and provisions of which are incorporated herein by reference. In the event that any provisions of this first Lien Intellectual Property Security Agreement are in conflict with the Pledge and Security Agreement or the Credit Agreement, the provisions of the Pledge and Security Agreement or the Credit Agreement shall govern.

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IN WITNESS WHEREOF, each Grantor and the Collateral Agent have caused this Agreement to be duly executed and delivered by their respective officers thereunto duly authorized as of the date first written above.

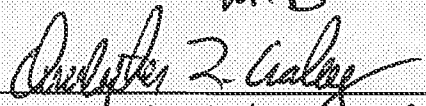
**FREEDOM SCIENTIFIC BLV GROUP, LLC,**  
as a Grantor

By:   
Name: John E. Blake  
Title: Manager

[Signature page to First Lien Intellectual Property Security Agreement]

THE GOVERNOR AND COMPANY OF THE  
BANK OF IRELAND, as Collateral Agent

By:   
Name: RICHARD CAMERON  
Title: M.D.

By:   
Name: Christopher L. Cooley  
Title: M.D.

SCHEDULE 1 TO  
FIRST LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT

**U.S. Patents and Patent Applications**

<u>Grantor</u>	<u>Title</u>	<u>Filing Date / Issue Date</u>	<u>Status</u>	<u>Application / Reg. No.</u>
Freedom Scientific BLV Group, LLC	BRILLE CELL ASSEMBLY HAVING HOLDER TRAY	6/28/1995/11/11/1997	Granted	1995496042/ 5685720
Freedom Scientific BLV Group, LLC	TACTILE DISPLAY DRIVEN BY SHAPE MEMORY WIRES	3/24/1995/ 2/17/1998	Granted	1995410293/ 5718588

**U.S. Trademarks and Trademark Applications**

<u>Grantor</u>	<u>Title</u>	<u>Filing Date / Issue Date</u>	<u>Status</u>	<u>Application / Reg. No.</u>
Freedom Scientific BLV Group, LLC	JAWS	6/23/1988/ 7/17/1990	Renewed Registered	73735908/ 1606168
Freedom Scientific BLV Group, LLC	TOPAZ	2/15/2006 /10/23/2007	Registered	78815118/332 1185
Freedom Scientific BLV Group, LLC	OPAL	2/15/2006/ 3/25/2008	Registered	78815299/ 3403312
Freedom Scientific BLV Group, LLC	SAPPHIRE	4/9/2008 / 3/3/2009	Registered	77443517/ 3584411
Freedom Scientific BLV Group, LLC	RUBY	4/9/2008 / 11/3/2009	Registered	77443526/ 3706198
Freedom Scientific Blv Group, LLC	SAPPHIRE		Registered	77443517/ 3584411