

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY AGREEMENT

**CONVEYING PARTY DATA**

Name	Execution Date
Accurel Systems International Corporation	09/04/2009
Implant Sciences Corporation	09/04/2009
C-Acquisition Corp.	09/04/2009
IMX Acquisition Corporation	09/04/2009

**RECEIVING PARTY DATA**

Name:	DMRJ Group, LLC
Street Address:	152 West 5th Street
Internal Address:	4th Floor
City:	New York
State/Country:	NEW YORK
Postal Code:	01880

**PROPERTY NUMBERS Total: 16**

Property Type	Number
Patent Number:	6828795
Patent Number:	6861646
Patent Number:	6870155
Patent Number:	6888128
Patent Number:	7098672
Patent Number:	7244288
Application Number:	11248603
Application Number:	11258477
Application Number:	11492672
Application Number:	11654900
Application Number:	11654394
Application Number:	12006246

CH \$640.00 6828795

Application Number:	12077190
Application Number:	12151273
Application Number:	12152441
Application Number:	11941939

**CORRESPONDENCE DATA**

Fax Number: (202)408-3141  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
Phone: 202-408-3121 x2348  
Email: jpaterso@cscinfo.com  
Correspondent Name: Corporation Service Company  
Address Line 1: 1090 Vermont Avenue NW, Suite 430  
Address Line 2: Attn: Jean Paterson  
Address Line 4: Washington, DISTRICT OF COLUMBIA 20005

ATTORNEY DOCKET NUMBER:	199573
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NAME OF SUBMITTER:	Jean Paterson
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Total Attachments: 8  
source=12-3-09 Accural Systems-PT#page1.tif  
source=12-3-09 Accural Systems-PT#page2.tif  
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source=12-3-09 Accural Systems-PT#page8.tif

RECORDATION FORM COVER SHEET  
PATENTS ONLY

OMB No. 0651-0027 (exp. 5/31/2002)

Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼ ▼ ▼ ▼ ▼

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
Accurel Systems International Corporation  
107 Audubon Road  
Wakefield, MA 01880  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies)  
Name: DMRJ Group, LLC  
Internal Address: \_\_\_\_\_  
152 West 5th Street, 4th Fl  
\_\_\_\_\_  
Street Address: \_\_\_\_\_  
\_\_\_\_\_  
City: New York State: NY Zip: 01880  
Additional name(s) & address(es) attached?  Yes  No

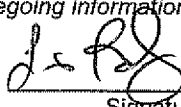
3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
Execution Date: 09/04/2009

4. Application number(s) or patent number(s):  
If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_  
A. Patent Application No.(s)  
B. Patent No.(s)  
See Schedule 1  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Corporation Service Company  
Internal Address: Suite 210  
\_\_\_\_\_  
order# 199573  
Street Address: 1180 Avenue of the Americas  
\_\_\_\_\_  
City: New York State: NY Zip: 10036

6. Total number of applications and patents involved:   
7. Total fee (37 CFR 3.41).....\$ \_\_\_\_\_  
 Enclosed  
 Authorized to be charged to deposit account  
8. Deposit account number:  
\_\_\_\_\_  
(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.  
*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*  
Luis Rodriguez  11/25/2009  
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and documents: 7

## PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT (this "Patent Security Agreement") is made this 4<sup>th</sup> day of September, 2009, among the Grantors listed on the signature pages hereof (collectively, jointly and severally, "Grantors" and each individually "Grantor"), and DMRJ GROUP, LLC (together with its successors, the "Secured Party").

### W I T N E S S E T H:

**WHEREAS**, the Secured Party is the holder of that certain Revolving Credit Promissory Note bearing even date herewith in the principal amount of \$3,000,000 (as may be amended, restated, supplemented, replaced or otherwise modified from time to time, the "Note") issued or to be issued by the Implant Sciences Corporation ("Company") pursuant to the terms of the Credit Agreement bearing even date herewith (as may be amended, restated, supplemented, replaced or otherwise modified from time to time, the "Credit Agreement") by and between the Company, as borrower, Secured Party, as lender, and C Acquisition Corp., Accurel Systems International Corporation, and IMX Acquisition Corp. as guarantors (collectively, the "Guarantors") and

**WHEREAS**, pursuant to the terms and conditions of the Credit Agreement, the Secured Party has agreed to extend a loan to the Company, repayment of which is evidenced by the Note, and

**WHEREAS**, in order to induce the Secured Party to enter into the Note, the Credit Agreement and the other Transaction Documents and to induce the Secured Party to make financial accommodations to the Company as provided for in the Credit Agreement, Grantors have executed and delivered to Secured Party that certain Security Agreement of even date herewith (including all annexes, exhibits or schedules thereto, as from time to time amended, restated, supplemented or otherwise modified, the "Security Agreement");

**WHEREAS**, pursuant to the Security Agreement, Grantors are required to execute and deliver to Secured Party this Patent Security Agreement;

**NOW, THEREFORE**, in consideration of the premises and mutual covenants herein contained and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Grantor hereby agrees as follows:

1. DEFINED TERMS. All capitalized terms used but not otherwise defined herein have the meanings given to them in the Security Agreement or the Note or the Credit Agreement.

2. GRANT OF SECURITY INTEREST IN PATENT COLLATERAL. Each Grantor hereby unconditionally grants, assigns and pledges to Secured Party a Security Interest in all of such Grantor's right, title and interest in and to the following, whether now owned or hereafter acquired or arising and wherever located (collectively, the "Patent Collateral"):

- (a) all of its Patents including those referred to on Schedule I hereto; and
- (b) all Proceeds of the foregoing.

3. SECURITY FOR OBLIGATIONS. This Patent Security Agreement and the Security Interest created hereby secures the payment and performance of the Secured Obligations, whether now existing or arising hereafter. Without limiting the generality of the foregoing, this Patent Security Agreement secures the payment of all amounts which constitute part of the Secured Obligations and would be owed by Grantors, or any of them, to Secured Party whether or not they are unenforceable or not allowable due to the existence of an Insolvency Proceeding involving any Grantor.

4. SECURITY AGREEMENT. The Security Interest granted pursuant to this Patent Security Agreement is granted in conjunction with the Security Interest granted to Secured Party pursuant to the Security Agreement. Each Grantor hereby acknowledges and affirms that the rights and remedies of Secured Party with respect to the Security Interest in the Patent Collateral made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. To the extent there is any inconsistency between this Patent Security Agreement and the Security Agreement, the Security Agreement shall control.

5. AUTHORIZATION TO SUPPLEMENT. If any Grantor shall obtain rights to any new patentable inventions or become entitled to the benefit of any patent application or patent for any reissue, division, or continuation, of any patent, the provisions of this Patent Security Agreement shall automatically apply thereto. Grantors shall give prompt (and in any event within fifteen (15) Business Days) notice in writing to Secured Party with respect to any such new patent rights. Without limiting Grantors' obligations under this Section 5, Grantors hereby authorize Secured Party unilaterally to modify this Agreement by amending Schedule I to include any such new patent rights of Grantors. Notwithstanding the foregoing, no failure to so modify this Patent Security Agreement or amend Schedule I shall in any way affect, invalidate or detract from Secured Party's continuing Security Interest in all Collateral, whether or not listed on Schedule I.

6. TERMINATION AND RELEASE. Upon indefeasible payment in full in cash of the Obligations in accordance with the provisions of the Note and the Purchase Agreement, the Security Interest granted hereby shall terminate and all rights to the Patent Collateral shall revert to Grantors or any other Person entitled thereto. At such time, Secured Party shall execute and deliver, and authorize the filing of, appropriate termination and release statements or other documents to terminate and release such Security Interests.

7. COUNTERPARTS. This Patent Security Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original, but all such separate counterparts shall together constitute but one and the same instrument. In proving this Patent Security Agreement or any other Transaction Document in any judicial proceedings, it shall not be necessary to produce or account for more than one such counterpart signed by the party against whom such enforcement is sought. Any signatures delivered by a party by facsimile transmission or by e-mail transmission shall be deemed an original signature hereto.

8. CONSTRUCTION. Unless the context of this Patent Security Agreement or any other Transaction Document clearly requires otherwise, references to the plural include the singular, references to the singular include the plural, the terms "includes" and "including" are

not limiting, and the term "or" has, except where otherwise indicated, the inclusive meaning represented by the phrase "and/or." The words "hereof," "herein," "hereby," "hereunder," and similar terms in this Patent Security Agreement or any other Transaction Document refer to this Patent Security Agreement or such other Transaction Document, as the case may be, as a whole and not to any particular provision of this Patent Security Agreement or such other Transaction Document, as the case may be. Section, subsection, clause, schedule, and exhibit references herein are to this Patent Security Agreement unless otherwise specified. Any reference in this Patent Security Agreement or in any other Transaction Document to any agreement, instrument, or document shall include all alterations, amendments, changes, extensions, modifications, renewals, replacements, substitutions, joinders, and supplements, thereto and thereof, as applicable (subject to any restrictions on such alterations, amendments, changes, extensions, modifications, renewals, replacements, substitutions, joinders, and supplements set forth herein or in the other Transaction Documents). Any reference herein or in any other Transaction Document to the satisfaction or repayment in full of the Obligations shall mean the repayment in full in cash (or cash collateralization in accordance with the terms hereof) of all Obligations other than unasserted contingent indemnification Obligations. Any reference herein to any Person shall be construed to include such Person's successors and assigns. Any requirement of a writing contained herein or in any other Transaction Document shall be satisfied by the transmission of a Record and any Record so transmitted shall constitute a representation and warranty as to the accuracy and completeness of the information contained therein.

9. GOVERNING LAW. THE VALIDITY OF THIS PATENT SECURITY AGREEMENT AND THE OTHER TRANSACTION DOCUMENTS (UNLESS EXPRESSLY PROVIDED TO THE CONTRARY IN ANOTHER TRANSACTION DOCUMENT IN RESPECT OF SUCH OTHER TRANSACTION DOCUMENT), THE CONSTRUCTION, INTERPRETATION, AND ENFORCEMENT HEREOF AND THEREOF, AND THE RIGHTS OF THE PARTIES HERETO AND THERETO WITH RESPECT TO ALL MATTERS ARISING HEREUNDER OR THEREUNDER OR RELATED HERETO OR THERETO SHALL BE DETERMINED UNDER, GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the undersigned parties hereto have executed this Agreement by and through their duly authorized officers, as of the day and year first above written.

GRANTORS:

IMPLANT SCIENCES CORPORATION

By: *Grant S. Bowman*  
Name: GRANT S. BOWMAN  
Title: CEO

C-ACQUISITION CORP.

By: *Grant S. Bowman*  
Name: GRANT S. BOWMAN  
Title: PRESIDENT

ACCUREL SYSTEMS INTERNATIONAL CORPORATION

By: *Grant S. Bowman*  
Name: GRANT S. BOWMAN  
Title: PRESIDENT

IMX ACQUISITION CORPORATION

By: *Grant S. Bowman*  
Name: GRANT S. BOWMAN  
Title: PRESIDENT

SECURED PARTY:

DMRJ GROUP, LLC

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

[SIGNATURE PAGE TO SECURITY AGREEMENT]

IN WITNESS WHEREOF, each Grantor has caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

**IMPLANT SCIENCES CORPORATION**

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**C ACQUISITION CORP.**

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**ACCUREL SYSTEMS INTERNATIONAL CORPORATION**

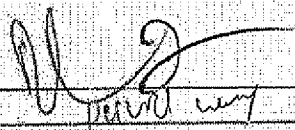
By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**IMX ACQUISITION CORP.**

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**ACCEPTED AND ACKNOWLEDGED BY:**

**DMRJ GROUP, LLC, as Secured Party**

By:  \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

[SIGNATURE PAGE TO PATENT SECURITY AGREEMENT]



**SCHEDULE I**  
**TO**  
**PATENT SECURITY AGREEMENT**

**U.S. PATENT REGISTRATIONS AND APPLICATIONS**

<b>Grantor</b>	<b>Title</b>	<b>Registration / Application No.</b>	<b>Registration / Application Date</b>

PATENT SECURITY AGREEMENT

130355.01002/21806358v.1

**PATENT**  
**REEL: 023594 FRAME: 0514**

**SCHEDULE I**  
**TO**  
**PATENT SECURITY AGREEMENT**

**U.S. PATENT REGISTRATIONS AND APPLICATIONS**

<b>Security Products Patents Issued</b>	<b><u>Number</u></b>	<b><u>PCT</u></b>
Explosives Detection System	6,828,795	
Cyclone Sampling Nozzle for an Ion Mobility Spectrometer	6,861,646	
Modified Vortex for an ION Mobility Spectrometer	6,870,155	
Virtual Wall Gas Sampling for an Ion Mobility Spectrometer	6,888,128	
Flash Vapor Sampling for a Trace Chemical Detector	7,098,672	
Pulsed Vapor Desorber	7,244,288	
<b>Security Products Patent Applications</b>		
Photoelectric Ion Source Photocathode Regeneration System	11/248,603	
Narcotics and Explosives Particle Removal System	11/258,477	
Long Lifetime Chemical Desorber	11,492,672	
Trace Chemical Particle Release Nozzle	11/654,900	
Trace Chemical Sensing	11/654,394	US07/24385
Chemical Calibration Method and System	12/006,246	
Flash Heating for Tubing	12/077190	
Pulsed UV Ion Source	12/151273	
Trace Particle Collection System	12/152441	US08/06102
Real-time Trace Detection by High Field and Low Field Ion Mobility and Mass Spectrometry	11/941,939	

PATENT SECURITY AGREEMENT

130355.01002/21806241v.1

**RECORDED: 12/03/2009**

**PATENT**  
**REEL: 023594 FRAME: 0515**