

TRADEMARK ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
JMAR Technologies, Inc.		09/25/2008	CORPORATION: DELAWARE
JMAR Research, Inc.		09/25/2008	CORPORATION: CALIFORNIA
RECEIVING PARTY DATA			
Name:	LV Administrative Services, Inc.		
Street Address:	335 Madison Avenue, 10th Floor		
City:	New York		
State/Country:	NEW YORK		
Postal Code:	10017		
Entity Type:	CORPORATION: DELAWARE		
PROPERTY NUMBERS Total: 2			
Property Type	Number	Word Mark	
Serial Number:	78670005	VERSACAM	
Registration Number:	3027660	BIOSENTRY	
CORRESPONDENCE DATA			
Fax Number:	(312)803-2209		
	<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>		
Phone:	212-407-4000		
Email:	aocasio@loeb.com		
Correspondent Name:	Scott J. Giordano - LOEB & LOEB LLP		
Address Line 1:	345 Park Avenue		
Address Line 4:	New York, NEW YORK 10154		
ATTORNEY DOCKET NUMBER:	202841-10159		
NAME OF SUBMITTER:	Seth A. Rose		
Signature:	/Seth A. Rose/		

CH \$65.00 78670005

Date:

03/24/2009

Total Attachments: 27

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INTELLECTUAL PROPERTY SECURITY AGREEMENT

This INTELLECTUAL PROPERTY SECURITY AGREEMENT (as from time to time amended, restated, supplemented or otherwise modified, the "Agreement"), dated as of September 25, 2008, is made by JMAR Technologies, Inc., a Delaware corporation (the "Company") and JMAR Research, Inc., a California corporation ("Research" collectively with the Company, each a "Grantor" and, collectively, "Grantors"), in favor of LV Administrative Services, Inc., a Delaware corporation, as administrative and collateral agent for the Purchasers (as defined in the Purchase Agreement referred to below) (the "Agent").

WHEREAS, pursuant to that certain Securities Purchase Agreement dated as of the date hereof (as amended, restated, supplemented and/or otherwise modified from time to time, the "Purchase Agreement") by and among the Company, the Purchasers party thereto from time to time and the Agent, the Purchasers have agreed to provide financial accommodations to the Company;

WHEREAS, Creditor Parties are willing to enter into the Security Agreement only upon the condition, among others, that Grantors shall have executed and delivered to Agent this 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:

Section 1. DEFINED TERMS; RULES OF CONSTRUCTION.

- (a) Capitalized terms used in this Agreement but not otherwise defined herein have the meanings given to them in the Purchase Agreement.
- (b) When used herein the following terms shall have the following meanings:

"Copyrights" means all copyrights arising or protected under the laws of the United States, any other country or any political subdivision thereof, whether registered, or unregistered and whether published or unpublished, all registrations and recordings therefor, and all applications in connection therewith, including but not limited to all registrations, recordings and applications in the United States Copyright Office, any State, or any similar office or agency of the United States, any State, any other country or political subdivision, or any other registry.

"Copyright Licenses" means all agreements pursuant to which any Grantor is licensor or licensee, granting any right under any Copyright, including but not limited to, rights to manufacture, reproduce, display, distribute, perform, modify or otherwise exploit, and sell materials embodying or derived from, any Copyrighted work.

"Intellectual Property" means any and all of the following, throughout the world: Patents, Trademarks, Copyrights, mask works, designs, trade secrets, information, databases, rights of publicity, software, and any other proprietary rights and processes; any licenses to use any of the foregoing owned by a third party including Patent Licenses, Trademark Licenses and

Copyright Licenses; and registrations, applications and recordings pertaining to any of the foregoing on any registry;

"Obligations" shall have the meaning provided thereto in the Master Security Agreement.

"PTO" means the United States Patent and Trademark Office and any successor office or agency.

"Patents" means all patents issued by the PTO, any similar office or agency of the United States, any State, or any other country or political subdivision or other registry, all recordings thereof, and all applications therefor.

"Patent Licenses" means all agreements pursuant to which any Grantor is licensor or licensee, granting any right to manufacture, have made, import, use, or sell any invention covered in whole or in part by a Patent.

"Trademarks" means all trademarks, trade names, corporate names, business names, fictitious business names, Internet Domain Names, trade styles, services marks, logos and other source or business identifiers, arising or protected under the laws of the United States, any State any other country or political subdivision thereof, whether registered or unregistered, and all goodwill connected with the use of and symbolized thereby, all registrations and recordings thereof, and all applications therefor, in the PTO, in any similar office or agency of the United States, any State, any other country or political subdivision, any Internet Domain Name registrar, or any other registry.

"Trademark Licenses" mean all agreements pursuant to which any Grantor is licensor or licensee, granting any right to use a Trademark.

"UCC" shall have the meaning provided thereto in the Master Security Agreement.

- (c) All Schedules, Addenda, Annexes and Exhibits hereto or expressly identified to this Agreement are incorporated herein by reference and taken together with this Agreement constitute but a single agreement. The words "herein", "hereof" and "hereunder" or other words of similar import refer to this Agreement as a whole, including the Exhibits, Addenda, Annexes and Schedules thereto, as the same may be from time to time amended, modified, restated or supplemented, and not to any particular section, subsection or clause contained in this Agreement. Wherever from the context it appears appropriate, each term stated in either the singular or plural shall include the singular and the plural, and pronouns stated in the masculine, feminine or neuter gender shall include the masculine, the feminine and the neuter. The term "or" is not exclusive. The term "including" (or any form thereof) shall not be limiting or exclusive. All references to statutes and related regulations shall include any amendments of same and any successor statutes and regulations. All references in this Agreement or in the Schedules, Addenda, Annexes and Exhibits to this Agreement to sections, schedules, disclosure schedules, exhibits, and attachments shall refer to the corresponding sections, schedules, disclosure schedules, exhibits, and attachments of or to this Agreement. All references to any instruments or agreements, including references

to any of this Agreement or the Ancillary Agreements shall include any and all modifications or amendments thereto and any and all extensions or renewals thereof.

- (d) The parties acknowledge that each party and its counsel have reviewed this Agreement and that the normal rule of construction to the effect that any ambiguities are to be resolved against the drafting party shall not be employed in the interpretation of this Agreement or any amendments, schedules or exhibits thereto.
- (e) In the event of an irreconcilable conflict between the terms of this Agreement and the terms of the Master Security Agreement, the Agent shall have the right to determine which Agreement shall govern with respect to each such conflict.

Section 2. GRANT OF SECURITY INTEREST IN INTELLECTUAL PROPERTY COLLATERAL. All of the terms, conditions and obligations under this Agreement are subject to all existing rights and obligations of the Grantors to Laurus Master Fund, Ltd. and its affiliates and assigns (collectively, "Laurus"), and Laurus has an existing security interest and rights in all of the Collateral (as defined below). To secure the prompt payment to the Creditor Parties of the Obligations of the Grantors now or hereafter existing from time to time, each Grantor hereby pledges and grants to the Agent, for the ratable benefit of the Creditor Parties, a continuing security interest in and Lien upon all of such Grantor's right, title and interest in, to and under the following, whether presently existing or hereafter created or acquired (collectively, the "Collateral"):

- (a) Trademarks and Trademark Licenses to which it is a party including those referred to on Schedule I hereto;
- (b) Patents and Patent Licenses to which it is a party, including those referred to on Schedule II hereto;
- (c) Copyrights and Copyright Licenses to which it is a party, including those referred to on Schedule III hereto;
- (d) Intellectual Property not covered by the foregoing, including those referred to on Schedule IV hereto;
- (e) Renewals, reissues, continuations, divisions, or extensions of any of the foregoing;
- (f) Rights to sue third parties for past, present or future infringement, dilution, misappropriation, or other violation of rights in any Intellectual Property, including injury to the goodwill associated with any Trademark, and all causes of action for the same;
- (g) All products and Proceeds of all or any of the foregoing, tort claims and all claims and other rights to payment including (i) insurance claims against third parties for loss of, damage to, or destruction of, the foregoing Collateral and (ii) payments

due or to become due under licenses of any or all of the foregoing and Proceeds payable under, or unearned premiums with respect to policies of insurance in whatever form; provided, however, that the Collateral shall not constitute a grant of a security interest in (a) any property to the extent that such grant of a security interest is prohibited by any rule of law, statute or regulation, requires a consent not obtained of any government, governmental body or official or is prohibited by, or constitutes a breach or default under or results in the termination of or requires any consent not obtained under, any contract, license, agreement, instrument or other document evidencing or giving rise to such property, except to the extent that such rule of law, statute or regulation or the term in such contract, license, agreement, instrument or other document or shareholder or similar agreement providing for such prohibition, breach, default or termination or requiring such consent is ineffective under applicable law; and (b) any trademark or service mark applications filed in the PTO on the basis of any Grantor's intent to use such trademark or service mark, unless and until a statement of use or amendment to allege use is filed in the PTO, in which event, such trademark or service mark shall automatically be included in the Collateral.

Section 3. REPRESENTATIONS AND WARRANTIES.

Each Grantor represents and warrants to Agent, in addition to the representations and warranties in the Purchase Agreement and Related Agreements, that:

- (a) Such Grantor does not own, in whole or in part, any Patent, Trademark, Copyright, or other Intellectual Property which is the subject of a registration or application in the United States Patent and Trademark Office, United States Copyright Office, any similar office or agency of the United States, any State, any other country or political subdivision, any Internet Domain Name registrar, or any other registry, except as set forth in Schedule I, Schedule II, Schedule III, and Schedule IV, respectively, hereto.
- (b) such Grantor is the sole owner of the Intellectual Property listed on Schedules I to IV hereto (as such schedules may be amended or supplemented from time to time) identified as owned by such Grantor, and all registrations and applications for such Intellectual Property are standing in the name of such Grantor.
- (c) no Intellectual Property has been licensed or sublicensed by any Grantor to any Affiliate or third party, except under the licenses disclosed in Schedules I to IV hereto.
- (d) all Intellectual Property owned by such Grantor, including the items set forth on Schedules I to IV, and, to such Grantor's knowledge, all Intellectual Property licensed to such Grantor, is subsisting in good standing, valid, and enforceable and such Grantor performed all acts and has paid all renewal, maintenance, and other fees and taxes required to maintain, each registration and application for Intellectual Property owned by such Grantor in full force and effect.

- (e) such Grantor has been using statutory notice of registration in connection with its use of registered Trademarks, proper marking practices in connection with the use of Patents, and appropriate notice of copyright in connection with the publication of Copyrighted material ;
- (f) such Grantor has taken all actions necessary to insure that all licensees of Trademarks owned by such Grantor use consistent standards of quality as directed by Grantor in connection with their licensed products and services;
- (g) this Agreement is effective to create a valid security interest in favor of Agent, for the benefit of the Creditor Parties, in all of Grantor's Intellectual Property. Upon the (i) filing of this Intellectual Property Security Agreement in the PTO (with respect to the United States Patents set forth on Schedule I hereto and the United States Trademarks set forth on Schedule II hereto), and in the United States Copyright Office (with respect to the United States Copyrights set forth on Schedule III hereto), and (ii) the filing of all appropriate UCC-1 financing statements, such security interest will be enforceable as such as against any and all creditors of, and purchasers from, Grantor. Upon the making of such filings set forth above, all action necessary or desirable to protect and perfect Agent's Lien on each Grantor's United States and State Patents, Trademarks, and Copyrights, shall have been taken.

Section 4. COVENANTS. Each Grantor covenants and agrees with Agent, from and after the date of this Agreement, and in addition to the covenants in the Purchase Agreement and Related Agreements, that:

- (a) Such Grantor shall notify Agent immediately if it knows or has reason to know that any application or registration relating to any Intellectual Property owned by such Grantor may become abandoned, dedicated to the public, placed in the public domain or otherwise invalidated or unenforceable, or of any adverse determination or development in any proceeding (including the institution of any proceeding) in the PTO, the United States Copyright Office, or any similar agency of the United States, any State, or other country or political subdivision thereof, any Internet Domain registry or other registry, or any court, regarding Grantor's ownership of or right to use register, keep and/or maintain any Intellectual Property;
- (b) Such Grantor shall take all actions necessary, or requested by Agent, to maintain and pursue each application, for registration in respect of the Intellectual Property owned by Grantor from time to time, by including filing applications for renewal, affidavits of use, affidavits of noncontestability and the commencement and prosecution of opposition and interference and cancellation proceedings;
- (c) In the event that any Intellectual Property owned by or exclusively licensed to such Grantor is infringed, diluted, misappropriated, or otherwise violated by a third party, such Grantor shall notify Agent promptly after such Grantor learns thereof and shall promptly take all reasonable actions to stop the same and

enforce its rights in such Intellectual Property and to recover all damages therefor, including, but not limited to, the initiation of a suit for injunctive relief and damages and shall take such other actions as are reasonable, or as Agent shall deem appropriate under the circumstances to protect such Grantor's rights in such Intellectual Property.

- (d) Such Grantor shall use statutory notice of registration in connection with its use of registered Trademarks, proper marking practices in connection with the use of Patents, appropriate notice of copyright in connection with the publication of Copyrighted materials, and other legends or markings applicable to other Intellectual Property;
- (e) Such Grantor shall maintain the level of the quality of products sold and services rendered under any Trademarks owned by such Grantor at a level at least consistent with the quality of such products and services as of the date hereof, and such Grantor shall adequately control the quality of goods and services offered by any licensees of its Trademarks; and
- (f) Such Grantor shall take all steps necessary to protect the secrecy of all trade secrets material to its business.

Section 5. SECURITY AGREEMENT. The security interests granted pursuant to this Agreement are granted in conjunction with the security interests granted by each Grantor to Agent, for the ratable benefit of the Creditor Parties, pursuant to the Master Security Agreement. Each Grantor hereby acknowledges and affirms that the rights and remedies of Agent with respect to the Collateral made and granted herein are more fully set forth in the Master Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. Any rights and remedies set forth herein are without prejudice to, and in addition to, those set forth in the Master Security Agreement.

Section 6. REINSTATEMENT. This Agreement shall remain in full force and effect and continue to be effective should any petition be filed by or against any Grantor for liquidation or reorganization, should any Grantor become insolvent or make an assignment for the benefit of any creditor or creditors or should a receiver or trustee be appointed for all or any significant part of such Grantor's assets, and shall continue to be effective or be reinstated, as the case may be, if at any time payment and performance of the Obligations, or any part thereof, is, pursuant to applicable law, rescinded or reduced in amount, or must otherwise be restored or returned by any obligee of the Obligations, whether as a "voidable preference," "fraudulent conveyance," or otherwise, all as though such payment or performance had not been made. In the event that any payment, or any part thereof, is rescinded, reduced, restored or returned, the Obligations shall be reinstated and deemed reduced only by such amount paid and not so rescinded, reduced, restored or returned.

Section 7. INDEMNIFICATION. Each Grantor assumes all responsibility and liability arising from the use of the Intellectual Property and Grantors, jointly and severally, hereby indemnify and hold Agent and each other Creditor Party harmless from and against any claim, suit, loss, damage or expense (including reasonable attorneys' fees) arising out of any

Grantor's operations of its business from the use of the Intellectual Property. In any suit, proceeding or action brought by Agent under any Patent License, Trademark License, or Copyright License for any sum owing thereunder, or to enforce any provisions of such License, Grantors will, jointly and severally, indemnify and keep Agent and each other Creditor Party harmless from and against all expense, loss or damage suffered by reason of any defense, set off, counterclaim, recoupment or reduction or liability whatsoever of the obligee thereunder, arising out of a breach of any Grantor of any obligation thereunder or arising out of any other agreement, indebtedness or liability at any time owing to or in favor of such obligee or its successors from any Grantor, and all such obligations of Grantors shall be and remain enforceable against and only against Grantors and shall not be enforceable against Agent or any other Creditor Party.

Section 8. **NOTICES.** Whenever it is provided herein that any notice, demand, request, consent, approval, declaration or other communication shall or may be given to or served upon any of the parties by any other party, or whenever any of the parties desires to give and serve upon any other party any communication with respect to this Agreement, each such notice, demand, request, consent, approval, declaration or other communication shall be in writing and shall be given in the manner, and deemed received, as provided for in the Purchase Agreement or the Subsidiary Guaranty, as applicable.

Section 9. **TERMINATION OF THIS AGREEMENT.** Subject to Section 6 hereof, this Agreement shall terminate upon payment in full in cash of all Obligations and irrevocable termination of the Purchase Agreement and the Related Agreements.

Section 10. **THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED AND ENFORCED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK APPLICABLE TO CONTRACTS MADE AND PERFORMED IN SUCH STATE, WITHOUT REGARD TO PRINCIPLES OF CONFLICTS OF LAW.**

[Signature Page to Follow]

IN WITNESS WHEREOF, each Grantor has executed this Intellectual Property Security Agreement as of the date first written above.

IMAR TECHNOLOGIES, INC.

By: C. Neil Bear
Name: C. Neil Bear
Title: Chief Executive Officer

IMAR RESEARCH, INC.

By: C. Neil Bear
Name: C. Neil Bear
Title: President

ACCEPTED and ACKNOWLEDGED by:

LV ADMINISTRATIVE SERVICES INC., as Agent

By: _____
Name: Patrick Regan
Title: Authorized Signatory

SIGNATURE PAGE TO
INTELLECTUAL PROPERTY
SECURITY AGREEMENT

TRADEMARK
REEL: 003958 FRAME: 0548

IN WITNESS WHEREOF, each Grantor has executed this Intellectual Property Security Agreement as of the date first written above.

JMAR TECHNOLOGIES, INC.

By: _____

Name: C. Neil Beer

Title: Chief Executive Officer

JMAR RESEARCH, INC.

By: _____

Name: C. Neil Beer

Title: President

ACCEPTED and ACKNOWLEDGED by:

LV ADMINISTRATIVE SERVICES INC., as Agent

By:  _____

Name: Patrick Regan

Title: Authorized Signatory

SIGNATURE PAGE TO
INTELLECTUAL PROPERTY
SECURITY AGREEMENT

TRADEMARK
REEL: 003958 FRAME: 0549

SCHEDULE I
TO
INTELLECTUAL PROPERTY SECURITY AGREEMENT

I. REGISTERED TRADEMARKS AND TRADEMARK APPLICATIONS

<u>Trademark</u>	<u>Registration or Application Number</u>	<u>Registration or Application Date</u>	<u>Country</u>
Versacam	78670005	7/13/05	US
Biosentry	3027660	12/13/06	US

II. UNREGISTERED TRADEMARK

Unregistered
Trademark

BioAlert

Note: The Biosentry application was filed by JMAR on behalf of Gregory Quist and David Drake who were the original owners of this trademark. JMAR subsequently acquired their Biosentry technology and received an assignment of this application (which ultimately was registered). The Assignment has been recorded in the US PTO.

SCHEDULE II
TO
INTELLECTUAL PROPERTY SECURITY AGREEMENT

PATENTS AND PATENT APPLICATIONS

Title	Ctry	Filing Date	Serial No.	Issue Date	Patent No.
Laser Plasma X-Ray Source	US	1/19/1990	07/467,779	3/26/1991	5,003,543
Laser Plasma X-Ray Source	US	12/13/1990	07/627,210	2/18/1992	5,089,711
Low Cost, High Average Power High Brightness Solid State Laser	US	8/24/1994	08/295,283	7/18/1995	5,434,875
Low Cost, High Average Power High Brightness Solid State Laser	US	11/15/1994	08/339,755	2/13/1996	5,491,707
Laser Generated X-ray Source	US	5/4/1994	08/434,860	7/23/1996	5,539,764
X-ray Target Tape System	US	1/16/1996	08/585,695	9/16/1997	5,668,848
Portable Laser for Blood Sampling	US	12/23/1994	08/363,751		
Low Cost, High Average Brightness Solid State Laser	US	4/27/1995	08/429,589		
Low Cost, High Average Power, High Brightness Solid State Laser	US	7/17/1995	08/503,373		
Portable Laser for Blood Sampling	US	9/18/1995	08/529,526	9/7/1999	5,947,957
Pocket-Size Laser Knife	US	11/6/1995	08/554,561		
Pocket-Size, Continuous-Wave Laser Knife	US	3/20/1996	08/618,990		

Title	Ctry	Filing Date	Serial No.	Issue Date	Patent No.
Solid-State Laser System for Ultra-Violet Micro-Lithography	US	6/13/1996	08/663,476		
Device and Method for Making Very Shallow Surface Cuts	US	10/4/1996	08/725,749		
Picosecond Laser	US	10/4/1996	08/725,750	4/21/1998	5,742,634
Solid-State Laser System for Ultra-Violet Micro-Lithography	US	11/22/1996	08/755,166	8/17/1999	5,940,418
Low Cost, High Average Power, High Brightness Solid State Laser	US	4/21/1997	08/845,185	8/4/1998	5,790,574
Solid-State Laser System for Ultra-Violet Micro-Lithography	PCT	6/11/1997	PCT/US97/11693		
Picosecond Laser	PCT	10/3/1997	PCT/US97/18009		
Low Cost, High Average Power, High Brightness Solid State Laser	PCT	11/6/1995	PCT/US95/14258		
Low Cost, High Average Power, High Brightness Solid State Laser	EPC	11/6/1995	95944024.9	0792530	1/21/2004
Low Cost, High Average Power, High Brightness Solid State Laser	DE	11/6/1995	95944024.9	0792530	1/21/2004
Low Cost, High Average Power, High Brightness Solid State Laser	FR	11/6/1995	95944024.9	0792530	1/21/2004

Title	Ctry	Filing Date	Serial No.	Issue Date	Patent No.
Low Cost, High Average Power, High Brightness Solid State Laser	GB	11/6/1995	95944024.9	0792530	2/21/2004
Low Cost, High Average Power, High Brightness Solid State Laser	NL	11/6/1995	95944024.9	0792530	2/21/2004
Low Cost, High Average Power, High Brightness Solid State Laser	JP	5/15/1997	08-516895		
Low Cost, High Average Power, High Brightness Solid State Laser	KR	5/15/1997	97-703260	1/22/2003	0371125
Low Cost, High Average Power, High Brightness Solid State Laser	SG	11/6/1995	9702157-0	1/18/1999	41076
Solid-State Laser System for Ultra-Violet Micro-Lithography	PCT	11/21/1997	PCT/US97/21786		
Short Pulse Laser System	US	4/9/1998	09/058,274	1/18/2000	6,016,324
Laser Plasma X-Ray Source	JP	12/20/1990			
Laser Plasma X-Ray Source	PCT	12/20/1990	PCT/US90/07557		
Device and Method to Manage Thermal Effects in Laser Crystals and Dielectric	US	8/5/1998	60/095,375 Provisional		
Device and Method to Manage Thermal Effects in Laser Crystals and Dielectric	US	8/5/1999	09/368,896		

Title	Ctry	Filing Date	Serial No.	Issue Date	Patent No.
Shaped Field Soft X-Ray, Extreme Ultraviolet and Ultraviolet Source	US	10/27/1998	60/105,861 Provisional		
Shaped Field Soft X-Ray, Extreme Ultraviolet and Ultraviolet Source	US	10/27/1998	09/429,738	10/23/2001	6,307,913
Beam Correcting Laser Amplifier	US	10/15/1999	60/159,521 Provisional		
Beam Correcting Laser Amplifier	US	10/12/2000	09/689,539		
Method and Apparatus for Laser Ablation of a Target Material	US	3/27/1999	09/385,539	10/29/2002	6,472,295
Short Pulse Laser System	EPC	4/1/1999	99302609.5		
Short Pulse Laser System	JP	4/9/1999	11-103255		
Short Pulse Laser System	KR	4/28/1999	99-11833		
Short Pulse Laser System	SG	4/6/1999	9901635-4	9/18/2001	75166
Pico Second Laser	EPC	10/3/1997	97954889.8		
Pico Second Laser	JP	4/5/1999	10-518703		
Pico Second Laser	KR	4/6/1999	10-1999-7002961	5/21/2002	339057
Pico Second Laser	SG	10/3/1997	9901472-2	1/16/2001	64716
Parallel X-Ray Nanotomography	US	5/24/1999	60/135,639 Provisional		
Optical Apparatus and Method for Inspecting Polished and Unpolished Substrates	US				

Title	Ctry	Filing Date	Serial No.	Issue Date	Patent No.
Laser Plasma X-Ray Generating System and Method Using Solid Micro-Micropellet	US	10/27/1999	60/161,891 Provisional		
High Collection Angle Short Wavelength Radiation Collimator and Focusing Optic	US	7/21/1999	60/145,489 Provisional		
High Collection Angle Short Wavelength Radiation Collimator and Focusing Optic	US	7/21/2000	09/621,404	9/23/2003	6,624,431
Shaped Field Soft X-Ray, Extreme Ultraviolet and Ultraviolet Source	PCT	10/27/1999	PCT/US99/25271		
X-Ray Source and Method of Using Same	US	3/1/2000	09/516,062		
Parallel X-Ray Nanotomography	PCT	5/24/2000	PCT/US00/14320		
Collimator and Focusing Optic	US	6/5/2000	60/209,438 Provisional		
Collimator and Focusing Optic	US	7/21/2000	09/621,027		
High Collection Angle Short Wavelength Radiation Collimator and Focusing Optic	PCT	7/21/2000	PCT/US00/40447		
Collimator and Focusing Optic	PCT	7/21/2000	PCT/US00/40443		
Method and Apparatus for Laser Ablation of a Target Material	PCT	8/25/2000	PCT/US00/23362		

Title	Ctry	Filing Date	Serial No.	Issue Date	Patent No.
Radiation Generating System Using Microtargets and Method for Using Same	US	10/27/2000	09/699,142		
Beam Correcting Laser Amplifier	PCT	10/27/2000	PCT/US00/28252		
Radiation Generating System Using Microtargets and Method for Using Same	PCT	10/27/2000	PCT/US00/29743		
System and Method for Providing a Pulse Laser	US	5/8/2002	60/378,847 Provisional		
Liquid Droplet Laser Plasma X-Ray Point Source and Apparatus	US				
High Intensity and High Power Solid State Laser Amplifying System and Method	US	7/16/2001	09/907,154	2/14/06	6,999,491
Radiation Generating System Using Microtargets and Method for Using Same	EP	10/27/2000	00973974.9		
Radiation Generating System Using Microtargets and Method for Using Same	JP	10/27/2000	2001-534180		
Parallel X-Ray Nanotomography	EPC	11/30/2001	00937736.7		
Collimator and Focusing Optic	JP	7/21/2000	2001-512975		
Collimator and Focusing Optic	EPC	3/7/2002	00960174.1		

Title	Ctry	Filing Date	Serial No.	Issue Date	Patent No.
Method and Apparatus for Laser Ablation of a Target Material	EPC	8/25/2000	00959403.7		
Beam Correcting Laser Amplifier	EPC	10/12/2000	00972112.7		
Beam Correcting Laser Amplifier	JP	10/12/2000	2001-531185		
Method and Apparatus for Laser Ablation of a Target Material	US	10/3/2002	10/264,248	4/6/2004	6,717,101
High Intensity and High Power Solid State Laser Amplifying System and Method	PCT	7/16/2002	PCT/US02/22597		
Method and Apparatus for Generating a Membrane Target for Laser Produced Plasma	US	1/2/2003	60/437,647 Provisional		
High Power Diode-Pumped Solid State Laser and Method of Manufacturing Same	US	4/3/2003	60/460,315 Provisional		
Method and System for Providing a Pulse Laser	US	5/8/2003	10/434,017	2/28/06	7,006,540
Method and System for Providing a Pulse Laser	PCT	5/8/2003	PCT/US03/14269		
Improved Debris Mitigation Apparatus for Microtarget EUV Source	US	7/9/2003	60/485,843 Provisional		
Method And Apparatus For Generating A Membrane Target For Laser Produced Plasma	PCT	12/31/2003	PCT/US03/41694		

Title	Ctry	Filing Date	Serial No.	Issue Date	Patent No.
Method And Apparatus For Generating A Membrane Target For Laser Produced Plasma	US	12/31/2003	10/750,022	12/20/05	6,977,383
Single Pass Cu Ribbon Target	US	12/17/2003	60/530,335 Provisional		
All-Polycapillary Hybrid X-Ray Collimator With Virtual S-Bend	US	1/9/2004	60/535,334 Provisional		
Missile Defense Using Laser Induced Atmospheric Ionization For Virtual Direct Energy Injection	US	1/9/2004	60/535,307 Provisional		
High Intensity and High Power Solid State Laser Amplifying System and Method	JP	7/16/2002	2003-513305		
High Intensity and High Power Solid State Laser Amplifying System and Method	EP	7/16/2002	02752378.6		
Scalable DPSS Laser and Contained Target Generator	US	2/20/2004	60/546,353 Provisional		
Diode-Pumped Solid State Laser System Utilizing High Power Diode Bars	US	4/2/2004	10/816,728		
Diode-Pumped Solid State Laser System Utilizing High Power Diode Bars	PCT	4/2/2004	PCT/US04/10322		

Title	Ctry	Filing Date	Serial No.	Issue Date	Patent No.
Nanometer Surface Ablation for Micro-Plasma Spectrometry	US	3/29/2004	60/557,364 Provisional		
Morphology And Spectroscopy Of Nanoscale Regions Using X-Rays Generated By Laser Produced Plasma	US	3/29/2005	10/907,321		
Razor Array Shutter for LPP Debris Mitigation	US	7/27/2004	60/591,410 Provisional		
Radiation-Resistant Zone Plates	US	8/5/2004	60/598,966 Provisional		
Condenser Zone Plate Illumination for Point X-Ray Sources	US	8/5/2004	60/599,203 Provisional		
Improvement in Resolution by Using Illumination Incident at an Angle	US	9/17/2004	60/611,185 Provisional		
Method and System for Achieving Eucentric Alignment of an Object	US	8/19/2004	60/602,742 Provisional		
Systems and Methods for Tape Advancement in Laser Produced Plasma Equipment	US	12/16/2004	11/014,303		
Microgripper Capillary Holder for XRM Vibration Mitigation	US	10/18/2004	60/619,892 Provisional		
Glass Capillary Stabilization for XRM Vibration Mitigation	US	11/11/2004	60/626,905 Provisional		

Title	Ctry	Filing Date	Serial No.	Issue Date	Patent No.
Novel Soft X-Ray Source by Laser-Produced Plasma (LPP) of a Nylon Target	US	1/7/2005	60/642,293 Provisional		
Multi-Directional Scanning Boom Microscope	US	1/21/2005	60/645,647 Provisional		
Method and System for Providing a Pulse Laser	EP	11/8/2004	03726679.8		
Method and System for Providing a Pulse Laser	JP	11/8/2004	2004-504355		
Method and System for Providing a Pulse Laser	KR	11/8/2004	10-2004-7018021		
Morphology And Spectroscopy Of Nanoscale Regions Using X-Rays Generated By Laser Produced Plasma	PCT	3/29/2005	PCT/US05/ 10406		
Cylindrical Optic for Particle Identification System in Fluids	US	5/6/2005	60/678,354 Provisional		
Multi-Angle Light Scattering Particle Identification System	US	6/13/2005	60/690,535 Provisional		
Improved Zone Plates for High Order Focusing Mode for X-Ray Nanoplasma	US	6/13/2005	60/690,329 Provisional		
High Intensity and High Power Solid State Laser Amplifying System and Method	US	7/25/2005	11/188,398		
Laser Produced X-Ray Source Size Characterization	US	7/19/2005	60/700,593 Provisional		

Title	Ctry	Filing Date	Serial No.	Issue Date	Patent No.
Depth Of Field And Chromatic Aberration Correction For X-Ray Wavelength Fresnel Zone Plates	US	7/22/2005	60/701,842 Provisional		
Objective Zone Plate with Central Obscuration for Enhanced Depth of Field in X-Ray Microscopy	US	8/19/2004	60/602,696 Provisional		
Rotatable Glass Microcapillary Sample Holder for Tomography	US	2/25/2005	60/656,724 Provisional		
High Capture Angle MALS Instrument for Liquid Suspensions of Microorganisms	US	5/2/2005	60/676,730 Provisional		
Method and Apparatus for Nanoscale Surface Analysis Using Soft X-Rays	US	12/14/2005	11/300,552		
Systems and Method for Determining Molecular Weights and Sizes Using Multi-Angle Light Scattering	US	10/20/2005	60/728,678 Provisional		
Systems and Methods for Detecting Scattered Light from a Particle Using Illumination Incident at an Angle	US	09/19/2005	11/231,350		
Systems and Methods for Detecting Scattered Light from a Particle Using Illumination Incident at an Angle	PCT	09/19/2005	PCT/US2005/033368		
Multiple Agile Laser Source for Real Time Spark Spectrochemical Hazard in the Field	US	10/11/05	60/725,455 Provisional		

Title	Ctry	Filing Date	Serial No.	Issue Date	Patent No.
Systems and Methods for a Scanning Boom Microscope	US	1/20/06	11/336,390		
Systems and Methods for a Scanning Boom Microscope	PCT	1/20/06	PCT/US2006/02135		
Britelight Laser Master Oscillator Pockel Cell Trigger Method and Circuit	US	2/6/06	60/765,522 Provisional		
Orthogonal Spectroscopic Technology for the Detection of Hazardous Substances	US	3/20/06	60/783,975 Provisional		
Systems and Methods for a High Capture Angle, Multiple Angle Light Scattering (MALS) Instrument	US	5/2/06	11/381,346		
Systems and Methods for a High Capture Angle, Multiple Angle Light Scattering (MALS) Instrument	PCT	5/2/06	PCT/US2006/16950		
Systems and Methods for a Multiple Angle Light Scattering (MALS) Instrument Having Two-Dimensional Detector Array	US	6/13/06	11/453,278		
Systems and Methods for a Multiple Angle Light Scattering (MALS) Instrument Having Two-Dimensional Detector Array	PCT	6/13/06	PCT/US2006/23043		

Title	Ctry	Filing Date	Serial No.	Issue Date	Patent No.
Systems and Methods for Achieving a Required Spot Says for Nanoscale Surface Analysis Using Soft X-Rays	US	6/13/06	11/453,338		
Systems and Methods for Achieving a Required Spot Says for Nanoscale Surface Analysis Using Soft X-Rays	PCT	6/13/06	PCT/US06/23138		
Method and Apparatus for Calibrating a Measurement System	US	11/14/02	10/294147	6/14/2005	6907370
High Accuracy XY Stage and Method of Manufacturing	US	2/23/00	60/184,395		
Laser Detector	US				
Method and Apparatus for Calibrating a Measurement System	US	11/14/01	60/335,135		
Low Cost, High Average Brightness Solid State Laser	US	8/24/94	08/295,283		
Solid-State Laser System for Ultra-Violet Micro-Lithography	US	11/22/96	08/755166	8/17/99	5940418
Systems and Methods for a High Capture Angle, Multiple Angle Light Scattering (MALS) Instrument	EPC	5/2/06	06784381.3		
Systems and Methods for a Multiple Angle Light Scattering (MALS) Instrument having Two-Dimensional Detector Array	EPC	6/13/06	06773081.2		

Title	Ctry	Filing Date	Serial No.	Issue Date	Patent No.
Systems and Methods for Detecting and Classification of Waterborne Particles using a Multiple Angle Light Scattering	US	10/5/06	11/539166		
Multiple Agile Laser Source for Real Time Spark Spectrochemical Hazard Analysis	US	10/11/06	11/548678		
Systems and Methods for Detecting Radiation, Biotxin, Chemical, and Biological Warfare Agents using a Multiple Angle Light Scattering (MALS) Instrument	US	11/29/06	11/564777		
Systems and Methods for Detecting Normal Levels of Bacteria in Water using a Multiple Angle Light Scattering (MALS) Instrument	US	11/29/06	11/564773		
Systems and Methods for Detecting and Classification of Waterborne Particles using a Multiple Angle Light Scattering (MALS) Instrument	PCT	10/5/07	PCT/US07/80609		
Multiple Agile Laser Source for Real Time Spark Spectrochemical Hazard Analysis	PCT	10/11/07	PCT/US07/81127		
Systems and methods for Detecting Radiation, Biotxin, Chemical, and Biological Warfare Agents using a Multiple Angle Light Scattering (MALS) Instrument	PCT	11/29/07	PCT/US07/85975		

Title	Ctry	Filing Date	Serial No.	Issue Date	Patent No.
Systems and Methods for Detecting Normal Levels of Bacteria in Water Using a Multiple Angle Light Scattering (MALS) Instrument	PCT	11/29/07	PCT/US07/85976		
Glitch Suppression Circuit and Method	US	7/26/01	09/915,745	1/13/2004	6,678,759

SCHEDULE III
TO
INTELLECTUAL PROPERTY SECURITY AGREEMENT

I. COPYRIGHT REGISTRATIONS

None.

II. COPYRIGHT APPLICATIONS

None.

III. COPYRIGHT LICENSES

None.

SCHEDULE IV

TO

INTELLECTUAL PROPERTY SECURITY AGREEMENT

OTHER INTELLECTUAL PROPERTY REGISTRATIONS AND APPLICATIONS.

- I. License Agreement between JMAR Technologies, Inc. ("JMAR") and PointSource Technologies, Inc. ("Point Source") granting JMAR an exclusive license covering all PointSource patents and other intellectual property related to the manufacture and sale of scattered-radiation based products used to detect or classify microorganisms in water and other media.
- II. Technology Transfer and License Agreement between JMAR and Gregory Quist and David Drake, dba The LXT Group ("LXT") granting JMAR an exclusive, perpetual, worldwide license by LXT to JMAR to use certain technology covered in a pending utility patent application filed by LXT in January 2005 with the United States Patent & Trademark Office entitled "Continuous On-Line Real-Time Surveillance System".