FORM PTO-1565

10-19-1998

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HEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

100852049	Patent and Trademark Office			
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.				
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):			
PULSE SCIENCES, INC. 600 McCormick Street San Leandro, CA 94577	Name: THE BANK OF NOVA SCOTIA as Administrative Agent			
Additional names(s) of conveying party(ies) attached? Yes No				
3. Nature of conveyance:	Street Address: 600 Peachtree Street, Suite 2700			
□ Assignment □ Merger Security Agreement □ Change of Name	City: Atlanta State: GA ZIP: 30308			
□ Other Execution Date:	Additional name(s) & address(es) attached?			
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:				
Application Numbers:	Registration Numbers:			
08/623,133	4,870,368 5,311,566 5,188,177 Tyes No			
Additional numbers attached? 5. Name and address of party to whom correspondence concerning document should be	6. Total number of applications and patents involved: 4			
mailed:	o. Total named of approximate parents in other			
Name: Nora A. Whitescarver	7. Total fee (37 CFR 3.41): \$160.00			
Internal Address: Mayer, Brown & Platt	Enclosed (Check No.16144)			
	☐ Authorized to be charged to deposit account			
Street Address: 2000 Pennsylvania Ave., NW	8. Deposit account number:			
Suite 3900	(Amely dualizate conv. of this page if pouring by deposit account)			
City: Washington State: Dr.C. ZIP: 20006 7/1998 TT0N11 00000050 4670368 DO NOT USE THIS SI	(Attach duplicate copy of this page if paying by deposit account)			
DO NOT USE THIS SPACE 150: 00 UP				
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.				
Nora A. Whitescarver Name of Person Signing Nora A. Whitescarver Signature	Date			
Total number of pages including cover sheet, attachments and documents : 6				

PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT (this "<u>Agreement</u>"), dated as of July 29, 1998, is made between PULSE SCIENCES, INC., a California corporation (the "<u>Grantor</u>"), and THE BANK OF NOVA SCOTIA ("<u>Scotiabank</u>"), in its capacity as Administrative Agent for each of the Secured Parties;

WITNESSETH:

WHEREAS, pursuant to a Credit Agreement, dated as of July 29, 1998 (as amended, supplemented, amended and restated or otherwise modified from time to time, the "Credit Agreement"), among THE TITAN CORPORATION, a Delaware corporation (the "Borrower"), the various financial institutions as are or may become parties thereto (the "Lenders"), Scotiabank, as Administrative Agent, and Imperial Bank, as Documentation Agent, the Lenders and the Issuers have extended Commitments to make Credit Extensions to the Borrower;

WHEREAS, in connection with the Credit Agreement, the Grantor has executed and delivered a Subsidiary Security Agreement, dated as of July 29, 1998 (as amended, supplemented, amended and restated or otherwise modified from time to time, the "Security Agreement");

WHEREAS, as a condition precedent to the making of the Credit Extensions (including the initial Credit Extension) under the Credit Agreement, the Grantor is required to execute and deliver this Security Agreement;

WHEREAS, the Grantor has duly authorized the execution, delivery and performance of this Security Agreement; and

WHEREAS, it is in the best interests of the Grantor to execute this Security Agreement inasmuch as the Grantor will derive substantial direct and indirect benefits from the Credit Extensions made from time to time to the Borrower by the Lenders and the Issuers pursuant to the Credit Agreement;

NOW THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged, and in order to induce the Lenders and the Issuers to make Credit Extensions (including the initial Credit Extension) to the Borrower pursuant to the Credit Agreement, the Grantor agrees, for the benefit of each Secured Party, as follows.

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- SECTION 1. <u>Definitions</u>. Unless otherwise defined herein or the context otherwise requires, terms used in this Agreement, including its preamble and recitals, have the meanings provided (or incorporated by reference) in the Security Agreement.
- SECTION 2. <u>Grant of Security Interest</u>. For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, to secure all of the Secured Obligations, the Grantor does hereby mortgage, pledge and hypothecate to the Administrative Agent, and grant to the Administrative Agent a security interest in, for its benefit and the benefit of each Secured Party, all of the following property (the "<u>Patent Collateral</u>"), whether now owned or hereafter acquired or existing by it:
 - (a) all letters patent and applications for letters patent throughout the world, including all patent applications in preparation for filing anywhere in the world and including each patent and patent application referred to in <u>Attachment 1</u> attached hereto;
 - (b) all reissues, divisions, continuations, continuations-in-part, extensions, renewals and reexaminations of any of the items described in clause (a);
 - (c) all patent licenses, including each patent license referred to in <u>Attachment 1</u> attached hereto; and
 - (d) all proceeds of, and rights associated with, the foregoing (including license royalties and proceeds of infringement suits), the right to sue third parties for past, present or future infringements of any patent or patent application, including any patent or patent application referred to in <u>Attachment 1</u> attached hereto, and for breach or enforcement of any patent license, including any patent license referred to in <u>Attachment 1</u> attached hereto, and all rights corresponding thereto throughout the world.
- SECTION 3. <u>Security Agreement</u>. This Agreement has been executed and delivered by the Grantor for the purpose of registering the security interest of the Administrative Agent in the Patent Collateral with the United States Patent and Trademark Office and corresponding offices in other countries of the world. The security interest granted hereby has been granted as a supplement to, and not in limitation of, the security interest granted to the Administrative Agent for its benefit and the benefit of each Secured Party under the Security Agreement. The Security Agreement (and all rights and remedies of the Administrative Agent and each Secured Party thereunder) shall remain in full force and effect in accordance with its terms.
- SECTION 4. Release of Security Interest. Upon the Termination Date, the Administrative Agent shall, at the Grantor's expense, execute and deliver to the Grantor all instruments and other documents as may be necessary or proper to release the lien on and security interest in the Patent Collateral which has been granted hereunder.
- SECTION 5. <u>Acknowledgment</u>. The Grantor does hereby further acknowledge and affirm that the rights and remedies of the Administrative Agent with respect to the security

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interest in the Patent Collateral granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which (including the remedies provided for therein) are incorporated by reference herein as if fully set forth herein.

SECTION 6. <u>Loan Document, etc.</u> This Agreement is a Loan Document executed pursuant to the Credit Agreement and shall (unless otherwise expressly indicated herein) be construed, administered and applied in accordance with the terms and provisions of the Credit Agreement.

SECTION 7. <u>Counterparts</u>. This Agreement may be executed by the parties hereto in several counterparts, each of which shall be deemed to be an original and all of which shall constitute together but one and the same agreement.

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IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed and delivered by their respective officers thereunto duly authorized as of the day and year first above written.

PULSE SCIENCES, INC

Name:

Vame: Eric DeMarzi

Title: Azzistant

Officer

THE BANK OF NOVA SCOTIA, as Administrative Agent

Bv

Name: Christopher Osborn Title: Relationship Manager

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Patent Activity	Inventor(s) Company Description App. Ser. No Patent No. Foreign Notes	The Apparatus for accelerating high-current pulses 166,661 4,870,368 Titan of electrons in a compact space to impart Corporation considerable enery to electrons. (PSI)	The A system for neutralizing a mine which 08/623,133 Titan includes an induction synchrotron accelerator Corporation for providing a high-kinetic-energy pulsed 4/4/96 (PSI) electron beam and a system for directing the high-kinetic-energy beam to the mine to neutralize the mine.	The A method of treating organically contaminated Titan material through in-situ viradiation from an Corporation x-ray converter. (PSI)	dy D. Curry The A method of sealing an oil-well-head pipe 07/730,668 5,188,177 Abandoned Titan having a metal casing. Corporation (PSI) (PSI)	
		vation	The Titan Corporation (PSI)	The Titan Corporation (PSI)	oration	
	Лате	Compact, Lightweight, Si High-Current Electron Accelerator (Spiral Line Accelerator)	Φ	In-Situ X-Ray Treatment of Rorganically Contaminated Material	Magnetic-Pulse Sealing of Gil-Well-Head Pipe	DATENIT

RECORDED: 10/14/1998

REEL: 9507 FRAME: 0227