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<u> </u>	PATI	ENTS ONLY				
To The Honorable Commissioner	of Patents and Trademarks.	Please record the attact	ned original documents or copy thereof.			
1. Name of conveying party(ies):		2. Name and addre	ess of receiving party(ies):			
1. Name of conveying party(ies): Boris Leonidovich Volodin First Assignor Sergei Dolgy Second Assignor Vladimir Sinisa Ban Third Assignor Additional name(s) of conveying party(ies)	January 4, 2005 Date of Execution January 4, 2005 Date of Execution January 4, 2005 Date of Execution	PD-LD, Inc. Street Address: 30 City: Pennington State: New Jersey Additional name(s)	Ess of receiving party(ies): -B Pennington-Hopewell Road ZIP: 08534 & address attached? YES x NO syance (check only one):			
4. Identification of Application num	nber(s), patent number(s) OR	date of execution of a	pplication to which assignment refers: Date application was signed by the first			
10/947,990			named executing inventor			
5. Name and address of party to wh concerning documents should be ma	om correspondence		(Fill-in this date only if assignment is filed together with a new application)			
Tomorrang documents should be ma	mea:	6. Total number of a	pplications and patents involved: 1			
Name: WOODCOCK WASHBURN LLP One Liberty Place - 46th Floor Philadelphia, Pennsylvania 19103-7 215-568-3100	7301	7. Total fee (37 CFR 3.41): \$40.00 Enclosed X Authorized to be charged to Deposit Account Number 23-3050 CLIENT MATTER NUMBER: PDLD-0020 8. Please charge any deficiency or credit any overpayment to Deposit Account Number 23-3050				
DØ NOT USE THIS SPACE						
9. Statement and signature. To the best of my knowledge and be priginal document. (anet T. Griffin – Patent Prosecution	lief, the foregoing informati	-/	and any attached copy is a true copy of the			
Name of Person Signing/Reg. No. Signature Date						
Total numb	- //	/ (nent and additional pages attached thereto: 5			
fail documents to be recorded with required cover sheet information to:						
	Mail Stop Assignmer Commission P.O. B	rt Recordation Services ter for Patents ox 1450 'A 22313-1450				
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DOCKET NO.: PDL.D-0020

PATENT
Joint Inventors
(Pending Application;
Application No. Known)

ASSIGNMENT

WHEREAS, we Boris Leonidovich Volodin, residing at 93 Windsor Pond Road, West Windsor, New Jersey, 08550; Sergei Dogy, residing at 31 Elm Street, Apartment E, Lambertville, New Jersey 08530; Vladimir Sinisa Ban, residing at 1061 Great Road, Princeton, New Jersey 08540; hereinafter referred to as the assignors, are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Application No. 10/947,990, filed September 23, 2004, entitled Methods For Manufacturing Volume Bragg Grating Elements; and

WHEREAS, PD-LD, Inc., hereinafter referred to as the assignee, of 30-B Pennington-Hopewell Road, Pennington, New Jersey, 08534, a corporation of New Jersey, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, and intending to be legally bound hereby, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, including the full right to sue for and collect damages for past violations of provisional rights having arisen from any publication of said application or any continuations, divisions, or renewals of or substitutes for said application. We further assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything

Page 1 of 4

DOCKET NO.: PDLD-0020

PATENT
Joint Inventors
(Pending Application;
Application No. Known)

possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, we hereby authorize our attorneys to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Jan 4, 2005 Date

Boris Leonidovich Volodin

(L.S.)

STATE OF New Jersey

. 00

COUNTY OF Mercer

On this 4th day of January, year of 2005, before me personally came the above named Boris Leonidovich Volodin to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

-

KAREN S. REID NOTARY PUBLIC OF NEW JERSEY

MY COMMISSION EXPIRES AUG. 29, 2007

04:38pm

DOCKET NO.: PDLD-0020

From-WoodcockWashburn

PATENT Joint Inventors (Pending Application; Application No. Known)

Date

STATE OF New Jersey

COUNTY OF Merce

On this 4th day of January, year of 2005, before me personally came the above named Sergei Dolgy to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

KAREN S. REID

NOTARY PUBLIC OF NEW JERSEY MY COMMISSION EXPIRES AUG. 29, 2007

+2155683439

DOCKET NO.: PDLD-0020

PATENT Joint Inventors (Pending Application; Application No. Known)

STATE OF <u>New Jersey</u> COUNTY OF <u>Mercer</u>

On this 4th day of January, year of 2005, before me personally came the above named Vladimir Sinisa Ban to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

KAREN S. REID NOTARY PUBLIC OF NEW JERSEY

MY COMMISSION EXPIRES AUG. 29, 2007

-05

PHILADELPHIA

One Liberty Place, 46th Floor Philadelphia, PA 19103

215-568-3100 Fax: 215-568-3439

SEATTLE

999 Third Avenue, Suite 1606 Seattle, WA 98104 206-332-1380 Fax: 206-624-7317

JOB CODE: 353 141

FACSIMILE

DATE: February 14, 2005 **OFFICIAL PAPER**

Please deliver this and the following pages to:

U.S.P.T.O. Group Art Unit:

Assignment Branch

Telecopier No.:

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U.S. Serial No.:

10/947,990

Client/Matter No.:

PDLD-0020

Sender's Name:

Janet T. Griffin

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5

If transmission is not complete, please call our Philadelphia Office at (215) 568-3100.

COVER MESSAGE:

OFFICIAL FACSIMILE, PLEASE DELIVER TO EXAMINER IMMEDIATELY.

Attached hereto is/are the following documents:

- 1) Recordation Cover Sheet
- 2) Assignment Document
- 3) Authorization to Charge Deposit Account

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERY OF THE MESSAGE TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE AND RETURN THE ORIGINAL TO US AT THE ABOVE ADDRESS VIA THE U.S. POSTAL SERVICE. THANK YOU.

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RECORDED: 02/14/2005

PATENT REEL: 015713 FRAME: 0265