PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT	
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Receiving Party Data from SHEPPARD MULLIN RICHTER & HAMPTON LLP to PHYSICAL OPTICS CORPORATION previously recorded on Reel 023203 Frame 0630. Assignor(s) hereby confirms the The coversheet and assignment used for the original recordation is attached.	

CONVEYING PARTY DATA

Name	Execution Date
Lothar U. Kempen	06/15/1998
John D. Prohaska	06/15/1998
Robert A. Lieberman	06/15/1998

RECEIVING PARTY DATA

Name:	Physical Optics Corporation	
Street Address:	20600 Gramercy Place, Suite 103	
City:	Torrance	
State/Country:	CALIFORNIA	
Postal Code:	90501	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	09434225

CORRESPONDENCE DATA

Fax Number: (858)509-3691

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Email: Idelagarza@smrh.com

Correspondent Name: SHEPPARD MULLIN RICHTER & HAMPTON LLP

Address Line 1: 333 South Hope Street, 48th Floor
Address Line 4: Los Angeles, CALIFORNIA 90071-1448

ATTORNEY DOCKET NUMBER:	16LP-134153
	Tr.

NAME OF SUBMITTER: Linda M. de la Garza

PATENT REEL: 023212 FRAME: 0625 40.00

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Total Attachments: 3

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PATENT REEL: 023212 FRAME: 0626 O:SHEPPARD MULLIN RICHTER & HAMPTON LLP COMPANY:333 SOUTH HOPE STREET, 48TH

PATENT ASSIGNMENT

Electronic Version v1.1 09/08/2009 Stylesheet Version v1.1 500956881

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Lothar U. Kempen	06/15/1998
John D. Prohaska	06/15/1998
Robert A. Lieberman	06/15/1998

RECEIVING PARTY DATA

	Name:	SHEPPARD MULLIN RICHTER & HAMPTON LLP	
	Street Address:	333 South Hope Street, 48th Floor	
	City:	Los Angeles	
State/Country: CALIFORNIA		-	
- 0	Postal Code:	90071-1448	-

PROPERTY NUMBERS Total: 1

		9
Property Type	Walter	a de la composition della comp
Application Number:	09434225	-

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Address Line 1: 333 South Hope Street, 48th Floor
Address Line 4: Los Angeles, CALIFORNIA 90071-1448

ATTORNEY DOCKET NUMBER: 16LP-134153

NAME OF SUBMITTER: Linda M. de la Garza

Total Attachments: 2

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> PATENT REEL: 023212 FRAME: 0627

20.00

ASSIGNMENT

WHEREAS, we, John D. Prohaska, Lothar U. Kempen, and Robert A. Lieberman, have made a certain new and useful invention for which we are about to make application for Letters Patent of the United States, which application may be identified in the United States Patent Office as Serial No. 09/057,067, filed April 8, 1998 and, entitled:

Birefringent Fiber Grating Sensor and Detection System

WHEREAS, Physical Optics Corporation, a corporation organized and existing under and by virtue of the laws

(Executed: <u>June 15, 1998</u>

of California and having its principal place of business in Torrance, California, is desirous of acquiring the entire interest in and to said invention, said application and the Letters Patent to be obtained therefor;		
NOW, THEREFORE, for and in consideration of One Dollar a hand paid, the receipt and sufficiency whereof are hereby acknown by these presents do hereby sell, assign, and set over unto the said legal representative, successors and assigns, the entire right, to including the aforesaid application, for Letters Patent heretofore country and which may be based in whole or in part on said invalued by the United States in whole or in part on said inventions and discoveries, said assign and all such applications and also including the right to sue and including the right to sue and recover for any and all infringements of Patents to issue said Letters Patent to the above-mentioned asset.	wledged, we have sold, assigned, and set over and Physical Optics Corporation and said assignee's the and interest in and to any and all applications and hereafter filed in the United States or any other entions and discoveries, and in and to any and all tes or any other country and which may be based nment including the right to file and prosecute any recover for any and all such applications and also ents of said patents; and request the Commissioner	
WE HEREBY AUTHORIZE the above-mentioned assignee to instand serial number of our said application.	sert in this instrument the filing date, execution date	
UPON SAID CONSIDERATION, we do hereby covenant for ourselves and our heirs, legal representatives and assigns that neither we nor any of our said heirs, legal representatives or assigns have or will execute any instrument or perform any act in conflict herewith and that we or our said heirs, legal representatives and assigns will at all times do such acts and execute such papers, without expense to ourselves, as may be necessary or desirable in order to fully protect said inventions and discoveries for the benefit of said assignee, its successors or assigns, and to otherwise carry into full force and effect the text and interest of this assignment.		
IN WITNESS WHEREOF, we have hereunto set our hands and June, 1998.	affixed our seals this 15^{-14} day of the month of	
John I	O. Prohaska (SEAL)	
Lotha	Thomas (SEAL)	
Rober	A. Lieberman (SEAL)	
State of California)		
)ss. County of Los Angeles)		
On this day of June, 1998, before me, a notary public in Lothar U. Kempen, and Robert A. Liebernand who are personames are subscribed to the foresping instrument, and they act the said instrument as their free and voluntary act for the uses	onally known to me to be the same persons whose knowledged that they signed, sealed and delivered	
	(SEAL)	
M. C.	Notary Public ommission Expires:	
NILLES & NILLES, S.C.	CLIENT\POC\BIREFRIN.ASN	

PATENT REEL: 023212 FRAME: 0628

State of California,	8	
County of Los Angeles,		
	me, Jane M. Burdick, Notary Public,	
DATE	a, Lothar U. Kempen and Robert A. Lieberman	
personally appeared John D. Pronaska	NAME(S) OF SIGNER(S)	
JANE M. BURDICK COMM. # 1061869 Notary Public — California LOS ANGELES COUNTY My Comm. Expires JUN 18, 1999	to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/shre/they executed the same in knis/he/t/their authorized capacity(ies), and that by knis/he/x/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. WITNESS my hand and official seal.	
Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.		
CAPACITY CLAIMED BY SIGNER	DESCRIPTION OF ATTACHED DOCUMENT	
☐ INDIVIDUAL	ASSIGNMENT to U.S. Patent Application,	
CORPORATE OFFICER	"Birefringent Fiber Grating Sensor and Detection System"	
	TITLE OR TYPE OF DOCUMENT	
TITLE(S)		
PARTNER(S) LIMITED		
☐ GENERAL ☐ ATTORNEY-IN-FACT	One (1) NUMBER OF PAGES	
TRUSTEE(S)		
☐ GUARDIAN/CONSERVATOR☐ OTHER:		
U OTHER.	None DATE OF DOCUMENT	
SIGNER IS REPRESENTING: NAME OF PERSON(S) OR ENTITY(IES)	None	
	SIGNER(S) OTHER THAN NAMED ABOVE	
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RECORDED: 09/10/2009 REEL: 023212 FRAME: 0629