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U.S. Department of Commerce **Patent and Trademark Office** Attorney Docket No. 07033.0008-00 Attorney Customer Number: 22,852

1	ROY	ACCI	CNIN	MENTS	
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Please record the attached on bridge documents or copy thereof.	J. BOX ASSIGNMENTS
Name of conveying party(ies): Robert A. NORWOOD, Anthony F. GARITO,	Name and address of receiving party(ies):
and Anna PANACKAL	Name: Photon-X, Inc.
Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No	Internal Address:
3. Nature of conveyance:	Street Address: 291 Great Valley Parkway
	City: Malvern
Security Change of Name Agreement	State: Pennsylvania Zip Code: 19355
Other:	Additional name(s) & Address(es) attached?
Execution Date: May 10, 2001	☐ Yes ☐ No
 Application number(s) or patent number(s): If this document is be the application: 	eing filed together with a new application, the execution date of
A. Patent Application Number(s):	B. Patent Number(s):
09/722,821	
,Additional numbers attached?	☐ Yes
 Name and address of party to whom correspondence concerning document should be mailed: 	Total number of applications and registrations involved: 1
Name:	7. Total fee (37 CFR 3.41): \$40
	Enclosed (Please charge deficiency to deposit account)
Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT	Authorized to be charged to deposit account
& DUNNER, L.L.P. Street Address: 1300 Street, N.W.	
City: Washington, D.C.	
State: Zip: 20005-3315	8. Deposit Account No.: <u>06-0916</u>
9. Statement and signature.	
To the best of my knowledge and belief, the foregoing information is true a document.	and correct and any attached copy is a true copy of the original
Jonathan A. Hack	May 15, 2001
sions	
Total number of pages including bover sheet, a	ttachments and documents: 2

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ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

CODOPANT POLYMERS FOR EFFICIENT OPTICAL AMPLIFICATION
for which I/WE executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on November 28, 2000 (Application No. 09/722,821); and
WHEREAS, Photon-X, Inc.
a corporation of United States
whose post office address is 291 Great Valley Parkway, Malvern, Pennsylvania 19355

(hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/WE, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. 09/722,821, filed November 28, 2000) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s).

RECORDED: 05/15/2001

1. FULL NAME OF SOLE OR FIRST ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Robert A. NORWOOD		.5
1,000,11,11,10,111,000		051001
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2. FULL NAME OF SECOND ASSIGNOR, IF ANY	ASSIGNOR'S SIGNATURE	DATE
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100 100k 1000 Land, reacher, remineyirania 1000		
	T ACCIONODIO CIONATURE	DATE
3. FULL NAME OF THIRD ASSIGNOR, IF ANY	ASSIGNOR'S SIGNATURE	DATE
Anna PANACKAL	1 21	
	1 /mag Parackal	05 10 01
	Anna Panackal	05 10 01
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	ASSIGNOR'S SIGNATURE	CITIZENSHIP
9203 Pine Road, Philadelphia, Pennsylvania 19115		CITIZENSHIP United States
9203 Pine Road, Philadelphia, Pennsylvania 19115 4. FULL NAME OF FOURTH ASSIGNOR, IF ANY		CITIZENSHIP United States
9203 Pine Road, Philadelphia, Pennsylvania 19115		CITIZENSHIP United States DATE
9203 Pine Road, Philadelphia, Pennsylvania 19115 4. FULL NAME OF FOURTH ASSIGNOR, IF ANY		CITIZENSHIP United States DATE

PATENT REEL: 011810 FRAME: 0463