PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:			NEW ASSIGNMENT				
NATURE OF CONVEYANCE:			ASSIGNMENT				
CONVEYING PART	Y DATA						
		1	Name	Execution Date			
Juan C. Juarez				04/18/2011			
David W. Young		05/02/2011					
Joseph E. Sluz				04/18/2011			
RECEIVING PARTY	′ DATA						
Name:	me: Johns Hopkins University						
Street Address:		34th and Charles Street					
City:	Baltimore						
State/Country:	MARYLAND						
Postal Code:	21218						
Application Number		12054	002				
A		40054	000				
Application Numbe	r:	13051	092				
		13051	092				
CORRESPONDEN			092				
CORRESPONDENC Fax Number: <i>Correspondence wi</i>	CE DATA (240)22 Il be sent via US M	8-5254 <i>ail whe</i>	092				
CORRESPONDENC Fax Number: <i>Correspondence wi</i> Phone:	CE DATA (240)22 Il be sent via US M 240-228	8-5254 J<i>ail whe</i> 3-5640	en the fax attempt is unsuccessful.				
CORRESPONDENC Fax Number: <i>Correspondence wi</i> Phone: Email:	CE DATA (240)22 <i>Il be sent via US M</i> 240-228 eileen.s	8-5254 <i>fail whe</i> 3-5640 orenser	on the fax attempt is unsuccessful. n@jhuapl.edu				
CORRESPONDENC Fax Number: <i>Correspondence wi</i> Phone: Email: Correspondent Nan	CE DATA (240)22 Ill be sent via US M 240-228 eileen.se eileen.se	8-5254 Jail whe 3-5640 orenser A. Cood	en the fax attempt is unsuccessful. n@jhuapl.edu ch				
CORRESPONDENC Fax Number: <i>Correspondence wi</i> Phone: Email: Correspondent Nan Address Line 1:	CE DATA (240)22 Ill be sent via US M 240-228 eileen.se eileen.se	8-5254 <i>Iail whe</i> -5640 orenser A. Cood ohns H	on the fax attempt is unsuccessful. n@jhuapl.edu				
CORRESPONDENC Fax Number: <i>Correspondence wi</i> Phone: Email: Correspondent Nan Address Line 1: Address Line 2:	CE DATA (240)22 <i>II be sent via US M</i> 240-228 eileen.s eileen.s 11100 J M/S 7-1	8-5254 <i>Jail whe</i> -5640 orenser A. Cood ohns H	en the fax attempt is unsuccessful. n@jhuapl.edu ch				
CORRESPONDENC Fax Number: <i>Correspondence wi</i> Phone: Email:	(240)22 (240)22 (240-228 eileen.s ne: Francis 11100 J M/S 7-1 Laurel, f	8-5254 <i>Jail whe</i> -5640 orenser A. Cood ohns H	on the fax attempt is unsuccessful. n@jhuapl.edu ch opkins Road				
CORRESPONDENC Fax Number: <i>Correspondence wi</i> Phone: Email: Correspondent Nan Address Line 1: Address Line 2: Address Line 4:	CE DATA (240)22 (11 be sent via US M 240-228 eileen.s eileen.s 11100 J M/S 7-1 Laurel, I ET NUMBER:	8-5254 <i>Jail whe</i> -5640 orenser A. Cood ohns H	en the fax attempt is unsuccessful. n@jhuapl.edu ch opkins Road AND 20723-6099				

Patent Assignment JHU/APL Docket No. 2844-SPL Page 1 of 3

ASSIGNMENT

WHEREAS, Juan C. Juarez, David W. Young, and Joseph E. Sluz, hereinafter referred to as the ASSIGNORS, have made an invention as described in a United States patent application serial no. 13/051,092, filed March 18, 2011entitled:

Apparatus and Method for Increasing the Effective Caputre Area in Optical Terminals

WHEREAS, The Johns Hopkins University, a corporation organized and existing under the laws of the State of Maryland and having its principal place of business at Baltimore, Maryland, hereinafter referred to as the ASSIGNEE, desires to acquire an interest therein;

NOW, THEREFORE, in consideration of their employment by ASSIGNEE, the ASSIGNORS do hereby sell, assign and transfer to the ASSIGNEE the entire right, title and interest in and to said invention in the United States and its territories and possessions and in all foreign countries and the entire right, title and interest in and to said international application and any substitutions, divisions, continuations, or continuations-in-part based upon said application, and in and to any and all Letters Patent, whether original or reissue, which may be granted for said invention in the United States and its territories and possessions and in any and all foreign countries, the invention, said patent application, and any and all such patents to be held and enjoyed by the ASSIGNEE for its own use and benefit and for its legal representatives as fully and entirely as the same would have been held by the ASSIGNORS had this agreement not been made.

THE ASSIGNORS here further agree to make, execute, and deliver to the ASSIGNEE, its successors, assigns, and legal representatives, upon request but at the expense of the ASSIGNEE, any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of the aforesaid application, and of any United States or foreign applications, and of any substitutions, divisions, continuations, or continuations-in-part of said application, or applications for reissues of said Letters Patents, and to aid the ASSIGNEE, its successors, assigns, and legal representatives in every way in protecting the said invention as may be requested, provided, however that they shall not have to pay any expenses arising from extending such assistance.

Patent Assignment JHU/APL Docket No. 2844-SPL Page 2 of 3

THE ASSIGNORS hereby covenant that they have the right to grant the foregoing assignment.

_____SEAL_04/19/2014 DATE EILEEN M. SORENSEN NOTARY PUBLIC STATE OF MARYLAND ANNE ARUNDEL COUNTY COUNTY OF Anna Acunder) MARYLAND MY COMM, EXP 1-14-2012 On this 1/2 day of APRIL, 2011, before me, the undersigned officer, personally appeared the above-named Juan C. Juarez, known to me or satisfactorily proven to be the person whose name is subscribed to within the instrument and acknowledged that he executed the same for the purpose therein contained. In witness hereof I hereunto set my hand and official sea) <u>M. Sor Coss</u> Printed Name Notary Public My Commission expires /-/4-2012-NOTHRY PUBLIC FININE BRUNDEL COUNTY STATE OF MARYLAND MARYLAND COUNTY OF Anne Arundel) MY COMM. EXP 1-14-2012 On this \mathcal{A}_{day} of \mathcal{A}_{day} , 2011, before me, the undersigned officer, personally appeared

On this $\underline{\mathscr{A}}$ day of $\underline{\mathscr{A}}$, 2011, before me, the undersigned officer, personally appeared the above-named David W. Young, known to me or satisfactorily proven to be the person whose name is subscribed to within the instrument and acknowledged that he executed the same for the purpose therein contained.

In witness hereof I hereunto set my hand and official seal.

L. he have	. Gr.	Some	ingen media mediare	
	Signatur	8		
ELEEN	12:	<u>Se R. EX</u>	55.EX-)
	Printed N	lame		

Notary Public My Commission expires 1-14-2013-

> PATENT REEL: 026237 FRAME: 0727

Patent Assignment JHU/APL Docket No. 2844-SPL Page 3 of 3

Jergh E. J.G. SEAL 9/18 EILEEN M. SOBER DATE Joseph E. Suz NOTARY PUBLIC ANNE ARUNDEL COUNTY STATE OF MARYLAND) COUNTY OF <u>BODE Acurded</u>) MARYLAND MY COMM, EXP 1-14-2012

On this $\frac{18^{\frac{1}{2}}}{12}$ day of \underline{APRIC} , 2011, before me, the undersigned officer, personally appeared the above-named Joseph E. Sluz, known to me or satisfactorily proven to be the person whose name is subscribed to within the instrument and acknowledged that he executed the same for the purpose therein contained.

In witness hereof I hereunto set my hand and official seal.

<u>Lieu (n. J. e. av.</u> Signature E.C. C. AL. SOC. CANSER Printed Name

Notary Public My Commission expires <u>1/14/2011</u>