503681992 02/05/2016 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3728628

SUBMISSION TYPE:			NEW ASSIGNMENT				
NATURE OF CONVEYANCE:			ASSIGNMENT				
CONVEYING PARTY D	ΑΤΑ						
		١	Name			Execution Da	
DANIEL J. CREEDEN						02/03/2016	
JULIA R. LIMONGELLI						02/03/2016	
HERMANUS S. PRETORIUS						02/03/2016	
SCOTT D. SETZLER						02/03/2016	
RECEIVING PARTY D	ΑΤΑ						
Name:	BAE Sy	BAE Systems Information and Electronic Systems Integration Inc.					
Street Address:	PO Box	PO Box 868					
Internal Address:	NHQ1-	NHQ1-719					
City:	Nashua	Nashua					
State/Country:	NEW HAMPSHIRE						
Postal Code:	03061-	03061-0868					
Property Type		Number					
Broporty Typo			Numbor				
		15016					
		15016					
Application Number:	DATA		626				
Application Number: CORRESPONDENCE I Fax Number:	ΟΑΤΑ	(603)8	626 85-2167				
Application Number: CORRESPONDENCE I Fax Number: Correspondence will b	DATA	(603)8 o the e	626 85-2167 -mail address first; if tha				
Application Number: CORRESPONDENCE I Fax Number: Correspondence will k using a fax number, if	DATA De sent to provideo	(603)8 o the e d; if tha	626 85-2167				
Application Number: CORRESPONDENCE I Fax Number: Correspondence will k using a fax number, if Phone:	DATA De sent to provideo	(603)8 o the e d; if tha 603-88	626 85-2167 -mail address first; if tha at is unsuccessful, it wil	l be ser			
Application Number: CORRESPONDENCE I Fax Number: Correspondence will k using a fax number, if Phone: Email: Correspondent Name:	DATA De sent to provideo	(603)8 o the e d; if tha 603-88 nancy. NANC	626 • mail address first; if tha at is unsuccessful, it wil 35-6680 .young@baesystems.com Y YOUNG	l be ser			
Application Number: CORRESPONDENCE I Fax Number: <i>Correspondence will k</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1:	DATA De sent to provideo	(603)8 o the e d; if tha 603-88 nancy. NANC 65 SP	626 885-2167 <i>-mail address first; if tha</i> at is unsuccessful, it wil 35-6680 .young@baesystems.com Y YOUNG IT BROOK ROAD	l be ser			
Application Number: CORRESPONDENCE I Fax Number: Correspondence will L using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	DATA De sent to provideo	(603)8 o the e d; if tha 603-88 nancy. NANC 65 SP NHQ0	626 - <i>mail address first; if tha</i> <i>at is unsuccessful, it wil</i> 35-6680 .young@baesystems.com Y YOUNG IT BROOK ROAD 1-719	l be ser			
Application Number: CORRESPONDENCE I Fax Number: Correspondence will L using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	DATA De sent to provideo	(603)8 o the e d; if tha 603-88 nancy. NANC 65 SP NHQ0	626 885-2167 <i>-mail address first; if tha</i> at is unsuccessful, it wil 35-6680 .young@baesystems.com Y YOUNG IT BROOK ROAD	l be ser			
Application Number: CORRESPONDENCE I Fax Number: <i>Correspondence will &</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	DATA De sent to provideo	(603)8 o the e d; if tha 603-88 nancy. NANC 65 SP NHQ0 NASH	626 - <i>mail address first; if tha</i> <i>at is unsuccessful, it wil</i> 35-6680 .young@baesystems.com Y YOUNG IT BROOK ROAD 1-719	l be ser			
Application Number: CORRESPONDENCE I Fax Number: Correspondence will b	DATA De sent to provideo	(603)8 o the e d; if tha 603-88 nancy NANC 65 SP NHQ0 NASH	626 <i>-mail address first; if tha</i> <i>at is unsuccessful, it wil</i> 35-6680 .young@baesystems.com Y YOUNG IT BROOK ROAD 1-719 UA, NEW HAMPSHIRE 0	l be ser			
Application Number: CORRESPONDENCE I Fax Number: <i>Correspondence will k</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET N	DATA De sent to provideo	(603)8 o the e 603-88 nancy NANC 65 SP NHQ0 NASH	626 -mail address first; if tha at is unsuccessful, it wil 35-6680 .young@baesystems.com Y YOUNG IT BROOK ROAD 1-719 UA, NEW HAMPSHIRE 0 15-3446	l be ser			
Application Number: CORRESPONDENCE I Fax Number: Correspondence will & Using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 1: Address Line 2: Address Line 4: TTORNEY DOCKET N AME OF SUBMITTER:	DATA De sent to provideo	(603)8 o the e d; if tha 603-88 nancy. NANC 65 SP NHQ0 NASH	626 -mail address first; if tha at is unsuccessful, it wil 35-6680 .young@baesystems.com Y YOUNG IT BROOK ROAD 1-719 UA, NEW HAMPSHIRE 0 15-3446 NANCY A. YOUNG	l be ser			

Total Attachments: 2

source=15-3446-Assigment#page1.tif source=15-3446-Assigment#page2.tif

ASSIGNMENT

For value received, I/We, the undersigned (each) have agreed and hereby agree to assign to BAE Systems Information And Electronic Systems Integration Inc. (hereinafter referred to as BAE), a Delaware corporation, having a place of business at PO Box \$68, Nashua, New Hampshire, 03061-0868 in furtherance of my/our obligations to BAE, and do hereby assign and transfer to BAE, its successors, and assigns my/our entire right, title and interest, including the right of priority, in, and to and under an application for Letters Patent of the United States entitled:

REDUCTION OF YB-TO-ER BOTTLENECKING IN CO-DOPED FIBER LASER

Filing date: ______ Application Number:

and executed on even date herewith the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (CIPs), divisionals, and renewals of and substitutes for said application for said Letters Patent, and any and all Letters Patent of the United States and of countries foreign thereto including the right of priority under the International Convention which may be granted thereon or therefore; and any reissues, or reexaminations, or extensions of said Letters Patent.

I/We additionally authorize BAE to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by BAE, 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 me/us had this assignment, and transfer not been made;

And I/we hereby covenant that I/we have a full right to convey my/our entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a 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 invention(s) or improvement(s), said application and said Letters Patent to BAE, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to BAE, or to its nominee, all known facts respecting said invention(s) or improvement(s) said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, CIPs, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything reasonable to aid BAE, its successors, assigns, nominees and logal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvements(s) in any and all countries;

And I/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 BAE, as assignee of my/our entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), 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.

I/we further authorize and direct BAE attorneys to insert the application number and filing date of said application now identified by the case number and title set forth above as soon as the same shall have been known to them by the United States Patent and Trademark Office.

Date Assignment Signed:

N. Q. C. Daniel J. CREEDEN

Date Witness Signed:

2/3/2016

(Witness Stenature)

Benjamin R. Johnson) Witness Printed Namel

PATENT REEL: 037673 FRAME: 0786 CASE NO. 15-3446 Page 2

2/3/16 Date Assignment Signed: ulia R. LIMONG Date Witness Signed: [Witness signature] <u>R.</u> <u>Sansana n</u> horrittation to ba [Witness Printed Name] 36032016 Date Assignment Signed: Hermanus S. PRETORIUS For 3 2016 Date Witness Signed: [Withess signature] JAMES ENA. [Witness Printed Name] 2/3/16 Date Assignment Signed: Scoft D. SETZER _2/3/14__ Date Witness Signed: urel <u>Une</u>

[Witness Printed Name]