505811655 12/10/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5858484

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
JOSEPH D. CALI	12/06/2019
CURTIS M. GRENS	12/05/2019
RICHARD L. HARWOOD	12/05/2019
GARY M. MADISON	12/05/2019
JAMES M. MEREDITH	12/09/2019
ZACHARY D. SCHOTTMILLER	12/03/2019
RANDALL M. WHITE	12/05/2019

RECEIVING PARTY DATA

Name:	BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION INC.
Street Address:	P.O. BOX 868, NHQ0-1-719
City:	NASHUA
State/Country:	NEW HAMPSHIRE
Postal Code:	03061-0868

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16707365	

CORRESPONDENCE DATA

Fax Number: (603)782-4378

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 603-622-8456

Email: lunderhill@finchmaloney.com
Correspondent Name: FINCH & MALONEY PLLC

Address Line 1: GATEWAY ONE

Address Line 2: 50 COMMERCIAL STREET - SUITE 300
Address Line 4: MANCHESTER, NEW HAMPSHIRE 03101

ATTORNEY DOCKET NUMBER:	18-4136
NAME OF SUBMITTER:	PETER H. DYKSTRA, REG. NO. 69,520
SIGNATURE:	/Peter H. Dykstra/

PATENT 505811655 REEL: 051224 FRAME: 0154

DATE SIGNED:	12/10/2019			
Total Attachments: 14				
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ASSIGNMENT

For value received, I/We, the undersigned (each) hereby assign and transfer to BAE Systems Information And Electronic Systems Integration Inc. (hereinafter referred to as BAE), a Delaware corporation, having a place of business at Nashua, New Hampshire, in furtherance of my/our obligations to BAE, and its successors, and assigns, the 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:

CLOCK ALIGNMENT SYSTEM HAVING A DUAL-LOOP DELAY-LOCKED LOOP

Filing date: December 9, 2019 Application Number: 16/707,365
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 the 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 possible to aid BAE, its successors, assigns, nominees and legal 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 the 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: 2019-12-06 Joseph D. Cali
Date Assignment Signed: Curtis M. Grens

Date Assignment Signed:	·	Richard L. Harwood
Date Assignment Signed:		Gary M. Madison
Date Assignment Signed:		James M. Meredith
Date Assignment Signed:		Zachary D. Schottmiller
Date Assignment Signed:		Randall M, White

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CLOCK ALIGNMENT SYSTEM HAVING A DUAL-LOOP DELAY-LOCKED LOOP

Filing date: December	9, 2019 A	pplication Number: ,	16/707,365	
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any official of any country applications as aforesaid, to Patent for said invention(s)	or countries foreign to a issue to BAE, as assign or improvement(s), inc	the United States who gnee of the entire right cluding any and all L	s and Trademarks of the United States at ose duty it is to issue patents on at, title and interest, any and all Letters etters Patent of the United States which , in accordance with the terms of this	3d
	by the case number and	title set forth above	ation number and filing date of said as soon as the same shall have been kno	WI
Date Assignment Signed:		· · · · · · · · · · · · · · · · · · ·	Joseph D. Cali	
Date Assignment Signed:	12 5 2019		Cortio M. Cross	

Date Assignment Signed:	
	Richard L. Harwood
Date Assignment Signed:	 Gary M. Madison
Date Assignment Signed:	James M. Meredith
Date Assignment Signed:	Zachary D. Schottmiller
Date Assignment Signed:	Dandall M White

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Date Assignn	nent Signed:		······································	Joseph D. Cali
Date Assignn	nent Signed:			Curtis M. Grens

Case No. BAE-18-4055 Page 2

Date Assignment Signed:	12-5-2019	Nelson Monager
		Rìchard L. Harwood /
Date Assignment Signed:		Gary M. Madison
Date Assignment Signed:		James M. Meredith
Date Assignment Signed:		Zachary D. Schottmiller
Date Assignment Signed:		Randall M White

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have not executed that I/we will, each necessary or desira Patent to BAE, its or to its nominee, a Patent, to testify in continuations, CIP do everything poss	and will not execute any agre time a request is made, and to able to perfect the title to said successors, assigns, nomineer all known facts respecting said any legal proceedings, to sig s, reissue and foreign applica- tible to aid BAE, its successo	ement in conflict herewit without undue delay, exe invention(s) or improves or legal representatives d invention(s) or improven all lawful papers, to ex- tions, to make all rightfurs, assigns, nominees and	tire interest herein assigned, and that I/we th, and I/we further covenant and agree toute and deliver all such papers as may be ment(s), said application and said Letters, and I/we agree to communicate to BAE, ement(s) said application and said Letters secure all disclaimers and divisionals, I oaths and declarations, and generally to d legal representatives to obtain and ention(s) or improvements(s) in any and
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application now id	horize and direct BAE attorn entified by the case number a ted States Patent and Tradem	nd title set forth above a	ion number and filing date of said s soon as the same shall have been known
Date Assignment 5	Signed:		Joseph D. Cali
Date Assignment S	Signed:		Curtis M. Grens

Date Assignment Signed:		
		Richard L. Harwood
Date Assignment Signed:	12/5/2019	Gagy M. Madison
Date Assignment Signed:		James M. Meredith
Date Assignment Signed:		Zachary D. Schottmiller
Date Assignment Signed:		Randall M. White

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Date Assignme	ent Signed:			Curtis M. Grens

Date Assignment Signed:	·	Richard L. Harwood
Date Assignment Signed:	<u> Airriginian</u>	Gary M. Madison
Date Assignment Signed:	12/9/2019	James M. Meredith
Date Assignment Signed:		Zachary D. Schottmiller
Date Assignment Signed:		Randall M. White

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Date Assigni	nent Signed:			Joseph D. Cali	
Date Assign	ment Signed:			Curtis M. Grens	

Date Assignment Signed:		
G G		Richard L. Harwood
Date Assignment Signed:		Gary M. Madison
Date Assignment Signed:		James M. Meredith
Date Assignment Signed:	12/03/2019	Zachary D. Schottmiller Zachary D. Schottmiller
Date Assignment Signed:		Randall M. White

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Date Assignment Signed:		Zachary D. Schottmiller
Date Assignment Signed:	12/5/2019	

RECORDED: 12/10/2019