PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Derek R. DeVries	08/06/2012
Eldon C. Peterson	09/06/2012
Donald L. Jackson	08/10/2012
William W. Thorup	07/30/2012
Scott K. Lusk	08/17/2012

RECEIVING PARTY DATA

Name:	Alliant Techsystems Inc	
Street Address:	1300 Wilson Boulevard	
Internal Address:	Suite 400	
City:	Arlington	
State/Country:	VIRGINIA	
Postal Code:	22209	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13608571

CORRESPONDENCE DATA

Fax Number: 8015319168

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

801 532 1922 Phone:

Email: spboren@traskbritt.com Correspondent Name: Steven W. Gutke Address Line 1: PO BOX 2550

Address Line 4: Salt Lake City, UTAH 84110

ATTORNEY DOCKET NUMBER: 10302US

NAME OF SUBMITTER: Steven W. Gutke

REEL: 029659 FRAME: 0030

PATENT

502201115

Total Attachments: 22 source=Executed Assignment for Derek DeVries Assignment#page1.tif source=Executed Assignment for Derek DeVries Assignment#page2.tif source=Executed Assignment for Derek DeVries Assignment#page3.tif source=Executed Assignment for Derek DeVries Assignment#page4.tif source=Executed Assignment for Derek DeVries Assignment#page5.tif source=Executed Assignment for Eldon Peterson#page1.tif source=Executed Assignment for Eldon Peterson#page2.tif source=Executed Assignment for Eldon Peterson#page3.tif source=Executed Assignment for Donald Jackson#page1.tif source=Executed Assignment for Donald Jackson#page2.tif source=Executed Assignment for Donald Jackson#page3.tif source=Executed Assignment for Donald Jackson#page4.tif source=Executed Assignment for Donald Jackson#page5.tif source=Executed Assignment for William Thorup#page1.tif source=Executed Assignment for William Thorup#page2.tif source=Executed Assignment for William Thorup#page3.tif source=Executed Assignment for William Thorup#page4.tif source=Executed Assignment for William Thorup#page5.tif source=Executed Assignment for Scott Lusk#page1.tif source=Executed Assignment for Scott Lusk#page2.tif source=Executed Assignment for Scott Lusk#page3.tif source=Executed Assignment for Scott Lusk#page4.tif

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, each undersigned ASSIGNOR does hereby:

SELL, ASSIGN AND TRANSFER to Alliant Techsystems Inc. ("ASSIGNEE"), a corporation of the state of Delaware having a place of business at 1300 Wilson Boulevard Suite 400, Arlington, VA 22209, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the Application for United States Letters Patent, which has been executed by each undersigned ASSIGNOR concurrently herewith entitled HIGH VOLTAGE FIRING UNIT, ORDNANCE SYSTEM, AND METHOD OF OPERATING SAME, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent or the legal equivalent thereof which have been or may be filed in the United States and all foreign countries relating to any of such improvements; all original, reexamined and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application made in the United States;

AUTHORIZE the ASSIGNEE to apply for and receive any and all United States and foreign patents relating to such improvements in its own name;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to and in the name of the ASSIGNEE;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement or encumbrance affecting the rights and property herein conveyed has been or will be made or entered into by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the ASSIGNEE, to carry out in good faith the intent and purpose of this assignment, to execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications relating to any and all such improvements; to execute all rightful oaths, declarations, assignments, powers of attorney and other papers; to communicate to the ASSIGNEE all facts and provide to the ASSIGNEE all documents and things known and accessible to the undersigned relating to such improvements and the history thereof, and testify as to the same in any interference, litigation or other proceeding relating thereto; and generally to do everything possible which the ASSIGNEE shall consider desirable for vesting title to such improvements in the ASSIGNEE, and to secure, maintain, defend and enforce valid and enforceable patent protection for such improvements;

ASSIGNORS:	
Depek R. DeVries	Date 8-6-2012
Residing at: 1296 W. 1200 N., Farr West, UT 84404	
	Data
Brent D. Madsen	Date
Residing at: 25 Sarah Street, Providence, UT 84332	
	Date
Eldon C. Peterson	
Residing at: 2244 North 1200 East, North Logan, UT	Γ 84341
	Date
Donald L. Jackson Posiding et 7077 South 7220 West West Leaf Life	T 04001
Residing at: 7977 South 7320 West, West Jordan, U	1 84081
William W. Thamas	Date
William W. Thorup Residing at: 7992 South 3850 West, West Jordan, U.	Т 84088
	1 0 1000
	Date
Scott K. Lusk	
Residing at: 78 W. 10700 N., Clarkston, UT 84305-00	08

COUNTY OF BOX Elder)			
STATE OF Utah	: ss.)			
On this day of DeVries to me known to be and acknowledged to me that	the person who	ose name is	fore me personally subscribed to the fo	appeared Derek R. oregoing instrument,
		Chlee	n Dardner	J
		Notary Publ	ic in and for said Co	ounty and State
My Commission Expires:		The faller of the feeting of the second of t	YAL voltage graphic design and a stage of the stage of th	
February 23, 201	4		NOTARY PUBLIC COLLEEN GARDNER 581720 COMMISSION EXPIRES FEBRUARY 23, 2014	The control of the co
COUNTY OF)	THE COLUMN THE PROPERTY OF T	STATE OF UTAH	The second secon
STATE OF	: ss.)			
On this day of Madsen to me known to be the acknowledged to me that he/	he person whose	e name is sub	efore me personally escribed to the foreg	y appeared Brent D. going instrument, and
		Notory Dubl	ic in and for said Co	ounty and State
		notary Fuor	ic in and for said Co	ounty and State
My Commission Expires:				
·				

COUNTY OF)	eng Maria Bangaran
STATE OF	: ss.)	
On this _ Peterson to me kr and acknowledged		, 2012, before me personally appeared Eldon whose name is subscribed to the foregoing instrument, ted the same.
		Notary Public in and for said County and State
My Commission E	Expires:	
	· 	
COUNTY OF)	
STATE OF	: ss.)	
Jackson to me kno	day of wn to be the person who ne that he/she executed t	, 2012, before me personally appeared Donald ose name is subscribed to the foregoing instrument, and he same.
		Notary Public in and for said County and State
My Commission E	xpires:	

COUNTY OF)	
	: ss.	
STATE OF)	
On this Thorup to me know acknowledged to me	n to be the person	, 2012, before me personally appeared William whose name is subscribed to the foregoing instrument, and ted the same.
		Notary Public in and for said County and State
My Commission Ex	pires:	
COUNTY OF)	
STATE OF	: ss.)	
On this to me known to b acknowledged to me	e the person who	, 2012, before me personally appeared Scott K. Lusk se name is subscribed to the foregoing instrument, and ted the same.
		Notary Public in and for said County and State
My Commission Ex	pires:	

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, each undersigned ASSIGNOR does hereby:

SELL, ASSIGN AND TRANSFER to Alliant Techsystems Inc. ("ASSIGNEE"), a corporation of the state of Delaware having a place of business at 1300 Wilson Boulevard Suite 400, Arlington, VA 22209, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the Application for United States Letters Patent, which has been executed by each undersigned ASSIGNOR concurrently herewith entitled HIGH VOLTAGE FIRING UNIT, ORDNANCE SYSTEM, AND METHOD OF OPERATING SAME, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent or the legal equivalent thereof which have been or may be filed in the United States and all foreign countries relating to any of such improvements; all original, reexamined and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application made in the United States;

AUTHORIZE the ASSIGNEE to apply for and receive any and all United States and foreign patents relating to such improvements in its own name;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to and in the name of the ASSIGNEE;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement or encumbrance affecting the rights and property herein conveyed has been or will be made or entered into by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the ASSIGNEE, to carry out in good faith the intent and purpose of this assignment, to execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications relating to any and all such improvements; to execute all rightful oaths, declarations, assignments, powers of attorney and other papers; to communicate to the ASSIGNEE all facts and provide to the ASSIGNEE all documents and things known and accessible to the undersigned relating to such improvements and the history thereof, and testify as to the same in any interference, litigation or other proceeding relating thereto; and generally to do everything possible which the ASSIGNEE shall consider desirable for vesting title to such improvements in the ASSIGNEE, and to secure, maintain, defend and enforce valid and enforceable patent protection for such improvements;

ASSIGNORS:	
	Date
Derek R. DeVries Residing at: 1296 W. 1200 N., Farr West, UT 84404	
	Date
Brent D. Madsen Residing at: 25 Sarah Street, Providence, UT 84332	
Elden Clateran	Date 6 Syptimber 2000
Eldon C. Peterson Residing at: 2244 North 1200 East, North Logan, UT 84341	,
	Date
Donald L. Jackson Residing at: 7977 South 7320 West, West Jordan, UT 84081	
	Date
William W. Thorup Residing at: 7992 South 3850 West, West Jordan, UT 84088	

COUNTY OF CARHE STATE OF WHAH	
On this day Peterson to me known to be and acknowledged to me that	of, 2012, before me personally appeared Eldon the person whose name is subscribed to the foregoing instrument, he/she executed the same.
	Notary Public in and for said County and State
My Commission Expires:	D. CLARE LEISHMAN NOTARY PUBLIC - STATE OF UTAH My Comm. Exp. 12/02/2015 Commission # 653033
COUNTY OF) ; ss.
STATE OF	
On this day Jackson to me known to be the acknowledged to me that he/	he person whose name is subscribed to the foregoing instrument, and
	Notary Public in and for said County and State
a : v	140mly 1 home in and for some soundy and some
My Commission Expires:	

ASSIGNMENT

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ASSIGNORS:	
Derek R. DeVries Residing at: 1296 W. 1200 N., Farr West, UT 84404	Date
Brent D. Madsen Residing at: 25 Sarah Street, Providence, UT 84332	Date
Eldon C. Peterson	Date
Residing at: 2244 North 1200 East, North Logan, UT 84341 Lonald Jackson	Date 8/10/1 Z
Donald L. Jackson Residing at: 7977 South 7320 West, West Jordan, UT 84081	
William W. Thorup Residing at: 7992 South 3850 West, West Jordan, UT 84088	Date
Scott K. Lusk	Date

Residing at: 78 W. 10700 N., Clarkston, UT 84305-008

COUNTY OF)	
STATE OF	: ss.	
SIMIL OI	,	
DeVries to me kno	own to be the person	, 2012, before me personally appeared Derek R. on whose name is subscribed to the foregoing instrument,
and acknowledged	to me that he/she ex	xecuted the same.
		Notary Public in and for said County and State
My Commission Ex	xpires:	
COUNTY OF)	
	: ss.	
STATE OF)	
On this	day of	, 2012, before me personally appeared Brent D.
		whose name is subscribed to the foregoing instrument, and
acknowledged to m	ne that he/she execu	ited the same.
		Notary Public in and for said County and State
My Commission E	xpires:	

COUNTY OF)	
STATE OF	: ss.)	
On this Peterson to me know and acknowledged to	vn to be the person	, 2012, before me personally appeared Eldon whose name is subscribed to the foregoing instrument, ecuted the same.
		Notary Public in and for said County and State
My Commission Exp	ires:	
COUNTY OF Solistate OF Uta	tlake)	
STATE OF Uta	, ss.)	
On this 10 de Lackson to me knowr acknowledged to me	n to be the person w	, 2012, before me personally appeared Donald whose name is subscribed to the foregoing instrument, and ed the same.
		Notary Public in and for said County and State
My Commission Exp	ires:	NOTARY PUBLIC STATE OF UTAH EILEEN S. MCCOWN COMMISSION NUMBER 576663 COMMISSION EXPIRES OCTOBER 15, 2012

COUNTY OF)	
STATE OF	: ss.)	
	n to be the person	, 2012, before me personally appeared William whose name is subscribed to the foregoing instrument, and ted the same.
		Notary Public in and for said County and State
My Commission Exp	pires:	
COUNTY OF) : ss.	
STATE OF)	
On this to me known to be acknowledged to me	e the person who	, 2012, before me personally appeared Scott K. Lusk se name is subscribed to the foregoing instrument, and ted the same.
		Notary Public in and for said County and State
My Commission Ex	pires:	

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ASSIGNORS:		
	Date	
Derek R. Devries Residing at: 96 W. 1200 N., Farr West, UT 84404		
	Date	
Brent D. Madsen Residing at: 25 Sarah Street, Providence, UT 84332		
Eldon C. Peterson	Date	
Residing at: 2244 North 1200 East, North Logan, UT 84341		
Donald L. Jackson	Date	-
Residing at: 7977 South 7320 West, West Jordan, UT 84081		
William W. Thorup William W. Thorup	Date	1/30/12
Residing at: 7992 South 3850 West, West Jordan, UT 84088		
	Date	
Scott K Lusk		

Residing at: 78 W. 10700 N., Clarkston, UT 84305-008

COUNTY OF)	
	: ss.	
STATE OF)	
	to be the person w	, 2012, before me personally appeared Derek R. whose name is subscribed to the foregoing instrument, and d the same.
		Notary Public in and for said County and State
My Commission Exp	ires:	
COUNTY OF) : ss.	
STATE OF)	
	n to be the person w	, 2012, before me personally appeared Brent D. whose name is subscribed to the foregoing instrument, and ed the same.
		Notary Public in and for said County and State
My Commission Exp	pires:	

COUNTY OF)	
STATE OF	: ss.)	
		, 2012, before me personally appeared Eldon whose name is subscribed to the foregoing instrument, ated the same.
		Notary Public in and for said County and State
My Commission Expires:	:	
	· 	
COUNTY OF)	
STATE OF	: ss.)	
	be the person wh	, 2012, before me personally appeared Donald ose name is subscribed to the foregoing instrument, and the same.
		Notary Public in and for said County and State
My Commission Expires	:	

COUNTY OF Selflake)	
COUNTY OF Sulflake) : ss. STATE OF Utal)	
	, 2012, before me personally appeared William e name is subscribed to the foregoing instrument, and e same.
	Notary Public in and for said County and State
My Commission Expires: October 15,2010	NOTARY PUBLIC STATE OF UTAH EILHEN S. MCCOWN COMMISSION NUMBER 576563 COMMISSION EXPIRES OCTOBER 15, 2012
COUNTY OF) : ss. STATE OF)	
On this day of to me known to be the person whose na acknowledged to me that he/she executed th	, 2012, before me personally appeared Scott K. Lusk me is subscribed to the foregoing instrument, and e same.
My Commission Expires:	Notary Public in and for said County and State

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, each undersigned ASSIGNOR does hereby:

Sign.

SELL, ASSIGN AND TRANSFER to Alliant Techsystems Inc. ("ASSIGNEE"), a corporation of the state of Delaware having a place of business at 1300 Wilson Boulevard Suite 400, Arlington, VA 22209, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the Application for United States Letters Patent, which has been executed by each undersigned ASSIGNOR concurrently herewith entitled HIGH VOLTAGE FIRING UNIT, ORDNANCE SYSTEM, AND METHOD OF OPERATING SAME, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent or the legal equivalent thereof which have been or may be filed in the United States and all foreign countries relating to any of such improvements; all original, reexamined and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application made in the United States;

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Date
Date
3. 100/19/10/09/10
Date 8/17/2012

Residing at: 3090 Pasada Road, Cameron Park, CA 95682

COUNTY OF)	officer.
STATE OF))	
On this Thorup to me know acknowledged to m	n to be the person	, 2012, before me personally appeared William whose name is subscribed to the foregoing instrument, and ted the same.
		Notary Public in and for said County and State
My Commission Ex	xpires:	
COUNTY OF)	
	1 SS.	
STATE OF)	
On this to me known to be acknowledged to m	e the person who	, 2012, before me personally appeared Scott K. Lusk se name is subscribed to the foregoing instrument, and ted the same.
		Notary Public in and for said County and State
My Commission Ex	opires:	
and the second s		

GEE ATTACHED MOTASY DESTROOMER

ACKNOWLEDGMENT State of California El Dorado County of Arianna Genetin, Notary Public before me, (insert name and title of the officer) personally appeared _ who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal. (Seal)

PATENT REEL: 029659 FRAME: 0053

RECORDED: 01/18/2013