U.S. DEPARTMENT OF COMMERCE Form PTO-1595 01 - 22 - 2001 1-31-92 1.12.0 Patent and Trademark Office ET 101589225 To the Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): Alliant Kilgore Flare Company LLC Name: Alliant Kilgore Flares Company LLC Additional name(s) of conveying party(ies) attached? □ Yes Ø No Internal Address: 200 Street Address:155 Kilgore Street 3. Nature of Conveyance: Toone, Tennessee 38381-7850 □ Assignment □ Merger City: State: ZIP: □ Security Agreement □ Change of Name ☑ Other correct previously recorded Assignment Additional name(s) & address(es) attached? □ Yes ⋈ No Execution Date: 4/13/2000 4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: B. Patent No.(s)5413024; 5400712; 5472533; 5561259 A. Patent Application No.(s) Additional numbers attached? □ Yes ⋈ No 6. Total number of applications and patents involved: 5. Name and address of party to whom correspondence concerning document should be 4 mailed: **Debbie Ledbeter** 7. Total fee (37 CFR 3.41): Alliant Techsystems Inc. □ Enclosed 600 Second Street N.E. Authorized to be charged to deposit account Hopkins, Minnesota 55343-8384 8. Deposit Account Number: 01-0481 (Attach duplicate of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature. true and correct and any attached copy is a true copy of To the best of my knowledge and belief, the foregoing information is the original document. RICHARD A. ARRETT, ESQ. Date January 2, 2001 (Name of person signing) Total number of pages including cover sheet, attachments, and document: qOMB No. 0651-011 (exp. 4/94) Do not detach this portion Mail documents to be recorded with required cover sheet information to: **Commissioner of Patents and Trademarks Box Assignments** Washington, D.C. 20231 E:\WPWORK\FORMS\PA-ASSGN.CVR

> PATENT REEL: 011425 FRAME: 0803

06/19/2000

FORM PTO-1619A 790 Expires 08/30/99 OMB 0651-0027	0001182		U.S. Department of Commerce Patent and Trademark Office PATENT			
RECORDATION FORM COVER SHEET						
PATENTS ONLY TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(les).						
Submission Type Conveyance Type						
X New	X Assignment	Security Agree	ment			
Resubmission (Non-Recordation) Document ID#	License	Change of Nan	ne			
Correction of PTO Error Reel # Frame #	Merger	Other				
Corrective Document	Frame # U.S. Government					
Reel # Frame #		partmental File	Secret File			
Conveying Party(les)	Mark If additional	names of conveying partic	es attached Execution Date Month Day Year			
Name (line 1) Alliant Techsystems Inc						
Name (line 2)		 				
Second Party	Execution Date Month Day Year					
Name (line 1)						
Name (Ilne 2)						
Receiving Party Mark if additional names of receiving parties attached						
Name (Ne t) Alliant Kilgore Flare C	Alliant Kilgore Flare Company LLC. If document to be recorded is an assignment and the receiving party is not					
Name (line 2)	domiciled in the United States, an appointment					
Address (No 1) 155 Kilgore Street	of a domestic representative is attached.					
Address (line 2)			(Designation must be a separate document from Assignment.)			
Address (fine 3) Toone City	Tennessee State/Country	U.S.A. 38381-				
Domestic Representative Name and Address Enter for the first Receiving Party only.						
Name						
Address (line 1)						
Address (line 2)						
Address (line 3)						
Address (line 4)						
	AD ARRIAN IIAN AND	V				
FOR OFFICE USE ONLY						

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Petent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (8651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 8651-0027, Patient and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to: Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

PATENT

REEL: 011425 FRAME: 0804

FORM PTO Expires 06/30/99 OMB 0651-0027	-1619B	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT		
Correspondent Name and Address Area Code and Telephone Number 952-931-4028					
Name	Mark Goldberg				
Address (line 1)	Alliant Techsystems	Inc.			
Address (line 2)	600 Second Street N.	Ε.			
Address (line 3)	MN11-2216				
Address (line 4)	Hopkins, MN 55343-83	84			
Pages Enter the total number of pages of the attached conveyance document # 4					
Application Number(s) or Patent Number(s) Mark If additional numbers attached					
	• •	atent Number (DO NOT ENTER BOTH numbers			
Pat	ent Application Number(s)		t Number(s)		
L		5413024 556	1259		
<u> </u>	7	5400712			
ļ		3400/12			
		5472533			
If this document is being filed together with a <u>new Patent Application</u> , enter the date the patent application was <u>Month Day Year</u> signed by the first named executing inventor.					
Patent Coor	eration Treaty (PCT)				
-	r PCT application number	PCT PCT	PCT		
	if a U.S. Application Number	PCT PCT	РСТ		
	not been assigned.	FOI			
Number of Properties Enter the total number of properties involved. # 4					
Fee Amount for Properties Listed (37 CFR 3.41): \$ 160.00					
Method of Payment: Enclosed Deposit Account X Deposit Account					
(Enter for payment by deposit account or if additional fees can be charged to the account.) Deposit Account Number: # 01-0481					
	Α	authorization to charge additional fees:	Yes X No		
Statement and Signature					
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as					
indicated herein.					
	Goldberg	Mark Fact	June 19, 2000		
Name	of Person Signing	Signature	Date		

PATENT

REEL: 011425 FRAME: 0805

PATENT ASSIGNMENT

0/1

THIS PATENT ASSIGNMENT (the "Assignment") is made and entered into this 13th day of April, 2000, by and between Alliant Techsystems Inc., (Assignor), a corporation organized and existing under the laws of the State of Delaware and having an office and place of business at Hopkins, Minnesota, and Alliant Kilgore Flare Company LLC, (Assignee) a corporation organized and existing under the laws of the State of Delaware, having an office and place of business at Toone, Tennessee. Assignor is desirous of assigning and Assignee is desirous of acquiring the entire right, title and interest in and to United States Patents 5,413,024 issued on May 9, 1995; 5,400,712 issued on March 28, 1995; 5,472,533 issued on December 5, 1995 and 5,561,259 issued on October 1, 1996 (referred to as the Patents, hereinafter).

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor does hereby assign, transfer, and set over to Assignee the entire right, title, and interest in and to the Patents, including any related cases and any patents issuing based upon the Patents in any foreign country and including the subject matter of all claims which may be obtained therefrom for its own use and enjoyment, and for the use and enjoyment of its successors, assigns, or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment had not been made); together with all income, royalties, damages, or payments due or payable for the Patents as of the Effective Date or thereafter, including, without limitation, all claims for damages by reason of past, present, or future infringement or other unauthorized use of the Patents, with the right to sue for, and collect the same for its own use and enjoyment and for the use and enjoyment of its successors, assigns, or other legal representatives.

ASSIGNOR SHALL provide to Assignee, its successors, assigns, or other legal representatives, cooperation and assistance at Assignee's request (including the execution and delivery of any and all affidavits, declarations, oaths, exhibits assignments, powers of attorney, or other documentation as may be reasonably required) in the implementation or perfection of this Assignment.

PATENT REEL: 011425 FRAME: 0806 IN TESTIMONY WHEREOF Assignor has caused this Assignment to be signed and executed by the undersigned authorized representative thereunto duly authorized as of the Effective Date.

IN WITNESS WHEREOF, I hereunto affix my hand and seal this _____/3 TH day of APRIL, 2000.

ALLIANT TECHSYSTEMS INC.

BY:

(Seal)

Authorized Representative

STATE OF MINNESOTA

: ss:

COUNTY OF HENNEPIN

Before me personally appeared said <u>DARYL L. ZIMMER</u> and acknowledged that he is the <u>V. P., GENERAL COUNCEL AND</u> of ALLIANT TECHSYSTEMS INC., and that he has the authority to execute this Assignment on behalf of ALLIANT TECHSYSTEMS INC., and has acknowledged the foregoing instrument to be his free act and deed this <u>13</u>th day of <u>APRIL</u>, 2000.

Darla M. Benglson (seal)
Notary Public

My commission expires

DARLA M. BENGTSON

NOTARY PUBLIC - MINNESOTA

My Commission Expires Jan. 31, 2005

2

PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (the "Assignment") is made and entered into this 13th day of April, 2000, by and between Alliant Techsystems Inc., (Assignor), a corporation organized and existing under the laws of the State of Delaware and having an office and place of business at Hopkins, Minnesota, and Alliant Kilgore Flare Company LLC, (Assignee) a corporation organized and existing under the laws of the State of Delaware, having an office and place of business at Toone, Tennessee. Assignor is desirous of assigning and Assignee is desirous of acquiring the entire right, title and interest in and to United States Patents 5,413,024 issued on May 9, 1995; 5,400,712 issued on March 28, 1995; 5,472,533 issued on December 5, 1995 and 5,561,259 issued on October 1, 1996 (referred to as the Patents, hereinafter).

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor does hereby assign, transfer, and set over to Assignee the entire right, title, and interest in and to the Patents, including any related cases and any patents issuing based upon the Patents in any foreign country and including the subject matter of all claims which may be obtained therefrom for its own use and enjoyment, and for the use and enjoyment of its successors, assigns, or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment had not been made); together with all income, royalties, damages, or payments due or payable for the Patents as of the Effective Date or thereafter, including, without limitation, all claims for damages by reason of past, present, or future infringement or other unauthorized use of the Patents, with the right to sue for, and collect the same for its own use and enjoyment and for the use and enjoyment of its successors, assigns, or other legal representatives.

ASSIGNOR SHALL provide to Assignee, its successors, assigns, or other legal representatives, cooperation and assistance at Assignee's request (including the execution and delivery of any and all affidavits, declarations, oaths, exhibits assignments, powers of attorney, or other documentation as may be reasonably required) in the implementation or perfection of this Assignment.

PATENT REEL: 011425 FRAME: 0808 IN TESTIMONY WHEREOF Assignor has caused this Assignment to be signed and executed by the undersigned authorized representative thereunto duly authorized as of the Effective Date.

ALLIANT TECHSYSTEMS INC.

BY:

(30

Authorized Representative

STATE OF MINNESOTA

; ss:

COUNTY OF HENNEPIN

Before me personally appeared said <u>DARYL</u> L. ZIMMER and acknowledged that he is the V.P. GENERAL COURSEL AND OF ALLIANT TECHSYSTEMS INC., and that he has the authority to execute this Assignment on behalf of ALLIANT TECHSYSTEMS INC., and has acknowledged the foregoing instrument to be his free act and deed this <u>13TH</u> day of <u>APRIL</u>, 2000.

Darla M. Bengleon (seal)
Notary Public

My commission expires

DARLA M. BENGTSON

NOTARY PUBLIC - MINNESOTA

My Commission Fymires, Inc. 31, 2005

2

TOTAL P.06

PATENT REEL: 011425 FRAME: 0809

RECORDED: 01/12/2001