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To the Honorable Commissioner of Patents and Trademarks, if applicable, for the attached original documents or copy thereof.

1. Name of conveying party(ies):
David K. McGrath
Thomas J. Kirschner, Jr.
Daniel C. Dombrowski

8/29/01

2. Name and address of receiving party(ies)

Name: Alliant Techsystems Inc.

Internal Address:

J1046 U.S. PTO
09/941397
08/29/01

Additional name of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Street Address: 600 Second Street N.E.

City: Hopkins State: MN Zip: 55343

Additional Name(s) & address(es) attached? Yes No

09/941397

Execution Date: August 28, 2001

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: August 29, 2001

A. Patent Application No.(s)
NEW APPLICATION

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning this document should be mailed:

Name: Sullivan Law Group

Internal Address:

Street Address: 5060 North 40th Street

Suite 120

City: Phoenix State: AZ Zip: 85018

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

501324

(Attach duplicate copy of this page if paying by deposit account)

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9. 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.

David S. Taylor
Name of Person Signing

David S. Taylor
Signature

August 29, 2001
Date

Total number of pages including cover sheet, attachments, and documents: 4

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

09/17/2001 6TON11 00000003 501324 09941397
01 FC:581 40.00 CH

PATENT
REEL: 012154 FRAME: 0774

PATENT RIGHTS ASSIGNMENT

This Assignment is made jointly and severally by David K. McGrath, an individual residing at 3983 Blue Ball Road, Elkton, Md. 20921, and Thomas J. Kirschner, Jr., and individual residing at 41 Woodview Lane, North East, Md. 21901, and Daniel C. Dombrowski, an individual residing at 83 Crestwood Drive, Elkton, Md. 21921 (hereinafter "Assignors"), to and in favor of Alliant Techsystems Inc., a Delaware corporation having its principal place of business at 600 Second Street N.E., Hopkins, Minnesota 55343-8384 (hereinafter "Assignee").

Whereas Assignors are the inventors of the invention described in the application for United States Letters Patent entitled "ROCKET NOZZLE ASSEMBLY HAVING ROTATABLE VARIABLE THRUST CONTROL CYLINDERS, AND ROCKET ASSEMBLY COMPRISING THE SAME," filed herewith (hereinafter the "Patent Application"); and

Whereas Assignors desire to assign their entire right, title and interest in and to all patents, patent applications and the like on the above-identified invention to Assignee for valuable consideration; and

Whereas Assignee has provided such valuable consideration to Assignors;

Accordingly, the parties agree as follows:

1. Assignors hereby convey and assign to Assignee Assignors' entire right, title and interest in and to the Patent Application and the invention or inventions disclosed in it, including all continuation, continuation-in-part and divisional applications and all continuing prosecution applications based in whole or in part on the Patent Application, and including all patents and reissues resulting from it and/or them.

2. Assignors hereby assign to Assignee Assignors' entire right, title and interest in and to all counterparts to the Patent Application that have been or may be filed outside the United States, whether pursued as a patent, an inventor's certificate, a utility model or the like, including all rights of priority based on the Patent Application, further including all continuation, continuation-in-part and divisional applications and all continuing prosecution applications based in whole or in part on the non-U.S. counterparts, and still further including all patents, inventor's certificates, utility models and reissues based upon or resulting from any of the non-U.S. counterparts.

3. Assignors hereby grant to Assignee the sole and exclusive right to prosecute and have access to the Patent Application and all related applications as described in Paragraphs 1 and 2 above, as well as any opposition proceedings, reissue applications, reexaminations, and nullity or invalidity proceedings. Assignors authorize all

governmental bodies having the power to issue patents, reissues, inventor's certificates or utility models to issue a patent, reissue, inventor's certificate or utility model based on the Patent Application or any related applications as described in Paragraphs 1 and 2 above in the name of Assignee.

4. Assignors agree upon request and without further consideration, but at Assignee's expense: (a) to assist Assignee in prosecuting the Patent Application and all related applications as described in Paragraphs 1 through 3 above, as well as opposition proceedings, reissue applications, reexaminations, and nullity or invalidity proceedings; (b) to provide Assignee with information concerning the Patent Application to enable Assignee to obtain, secure and protect the rights granted under this Assignment; (c) to sign papers, take oaths and testify in legal proceedings to enable Assignee to obtain, secure and protect the rights granted under this Assignment; and (d) to perform all acts reasonably necessary to enable Assignee to obtain, secure and protect the rights granted under this Assignment.

5. Assignee may assign the rights under this Assignment in whole or in part. All references herein to Assignee include any successors or assigns of Assignee.

6. Assignors acknowledge that Assignee has provided valuable consideration for the rights granted under this Assignment.

Aug. 28, 2001
Date

David K. McGrath
David K. McGrath

STATE OF MD)
) ss.
County of Cecil)

On this 28th day of August, 2001, David K. McGrath, who is known to me to be the person whose name is subscribed to the foregoing instrument, personally appeared and executed the foregoing instrument for the purposes therein contained.

IN WITNESS WHEREOF, I have set my hand and official seal.

Anna S. Hod
Notary Public

My Commission Expires:

Dec. 1, 2004

28 Aug, 2001
Date

Thomas J. Kirschner, Jr.
Thomas J. Kirschner, Jr.

STATE OF MD)
County of Cecil) ss.

On this 28th day of August, 2001, Thomas J. Kirschner, who is known to me to be the person whose name is subscribed to the foregoing instrument, personally appeared and executed the foregoing instrument for the purposes therein contained.

IN WITNESS WHEREOF, I have set my hand and official seal.

[Signature]
Notary Public

My Commission Expires:

Dec. 1, 2004

Aug 28, 2001
Date

Daniel C. Dombrowski
Daniel C. Dombrowski

STATE OF MD)
County of Cecil) ss.

On this 28th day of August, 2001, Daniel C. Dombrowski, who is known to me to be the person whose name is subscribed to the foregoing instrument, personally appeared and executed the foregoing instrument for the purposes therein contained.

IN WITNESS WHEREOF, I have set my hand and official seal.

[Signature]
Notary Public

My Commission Expires:

Dec. 1, 2004