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To the Honorable Commissioner of Patents and Trademarks: Please Record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Thiokol Propulsion Corp.

10-29-01

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

2. Name and address of receiving party(ies)

Name: Alliant Techsystems Inc.

Internal Address: _____

Street Address: 5050 Lincoln Drive

City: Edina State: MN Zip: 55436

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: September 7, 2001

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

If this document is being filed together with a new application, the execution data of the application is:

A. Patent Application No.(s)
07/616,964

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:

01-0481 (Alliant Techsystems Inc.)

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

DO NOT USE THIS SPACE

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

Signature

October 29, 2001

Date

Total number of pages including cover sheet, attachments, and documents: 3

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

02/07/2002 TDIAZ1 00000124 010481 07616964

01 FC:581 40.00 CH

PATENT RIGHTS ASSIGNMENT

This Assignment is made and executed by Thiokol Propulsion Corp., a Delaware corporation with its principal place of business located at 9160 N. Highway 83, P.O. Box 707, Brigham City, Utah 84302-0707 (hereinafter "Assignor"), to and in favor of Alliant Techsystems Inc., a Delaware corporation having its principal place of business at 5050 Lincoln Drive, Edina, Minnesota 55436 (hereinafter "Assignee").

Whereas Assignor previously received the entire right, title and interest in and to the invention described in the application for United States Letters Patent entitled "POLY(BUTADIENE)/POLY(LACTONE) THERMOPLASTIC BLOCK POLYMERS, METHODS OF MAKING, AND UNCURED HIGH ENERGY COMPOSITIONS CONTAINING THE SAME AS BINDERS," assigned Serial No. 07/616,964 filed November 21, 1990 (hereinafter "the Patent Application"); and

Whereas Assignor desires to assign its entire right, title and interest in and to the Patent Application to Assignee for valuable consideration; and

Whereas Assignee has provided such valuable consideration to Assignor;

Accordingly, the parties agree as follows:

1. Assignor hereby conveys and assigns to Assignee Assignor's entire right, title and interest in and to the Patent Application and the inventions disclosed therein, 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 the Patent Application.
2. Assignor hereby assigns to Assignee Assignor's 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. Assignor hereby grants to Assignee the sole and exclusive right to prosecute the Patent Application and all related patents and applications as described in Paragraphs 1 and 2 above, as well as any opposition proceedings, reissue applications, reexaminations, and nullity or invalidity proceedings. Assignor authorizes all governmental bodies having the power to issue patents, reissues, inventor's certificates or

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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. Assignor agrees 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. Assignor acknowledges that Assignee has provided valuable consideration for the rights granted under this Assignment.

9/7/2001
Date

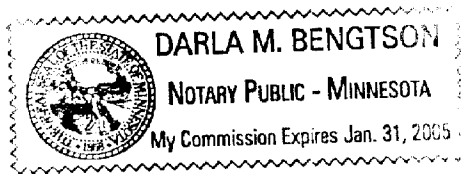
Ann D Davidson
Ann D. Davidson
Assistant Secretary

On this 7th day of September, 2001 Ann D. Davidson, 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.

Darla M. Bengtson
Notary Public

My Commission Expires:



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