

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>John R. Moser</td><td>09/15/2011</td></tr><tr><td>Richard L. Raun</td><td>09/12/2011</td></tr><tr><td>David D. Shaw</td><td>09/12/2011</td></tr></tbody></table>		Name	Execution Date	John R. Moser	09/15/2011	Richard L. Raun	09/12/2011	David D. Shaw	09/12/2011		
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RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Alliant Techsystems Inc.</td></tr><tr><td>Street Address:</td><td>7840 Flying Cloud Drive</td></tr><tr><td>City:</td><td>Minneapolis</td></tr><tr><td>State/Country:</td><td>MINNESOTA</td></tr><tr><td>Postal Code:</td><td>55344</td></tr></table>		Name:	Alliant Techsystems Inc.	Street Address:	7840 Flying Cloud Drive	City:	Minneapolis	State/Country:	MINNESOTA	Postal Code:	55344
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PROPERTY NUMBERS Total: 1											
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Application Number:	13225159										
CORRESPONDENCE DATA											
Fax Number: (801)531-9168											
Phone: 801-532-1922											
Email: vmmangum@traskbritt.com											
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name: TRASKBRITT, P.C./ ALLIANT TECH SYSTEMS											
Address Line 1: 230 South 500 East											
Address Line 2: Suite 300											
Address Line 4: SALT LAKE CITY, UTAH 84102											
ATTORNEY DOCKET NUMBER:	2507-10570US										
NAME OF SUBMITTER:	Nathan E. Whitlock										
Total Attachments: 4 source=Sept-15-2011-Assignment-10570US#page1.tif source=Sept-15-2011-Assignment-10570US#page2.tif source=Sept-15-2011-Assignment-10570US#page3.tif source=Sept-15-2011-Assignment-10570US#page4.tif											

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PATENT
REEL: 026910 FRAME: 0701

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 7480 Flying Cloud Drive, Minneapolis, MN 55344, 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 Serial No. 13/225,159 filed on September 02, 2011, entitled **ENERGETIC COMPOSITIONS INCLUDING NITRATE ESTERS, METHODS OF FORMING SUCH ENERGETIC COMPOSITIONS, AND ARTICLES INCLUDING SUCH ENERGETIC COMPOSITIONS**, 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;

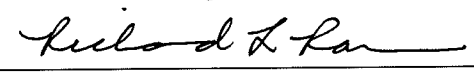
AGREE AND ACKNOWLEDGE that the SALE, ASSIGNMENT AND TRANSFER of rights and property set forth herein is and shall be IRREVOCABLE and BINDING upon the heirs, assigns, representatives and successors of each undersigned ASSIGNOR and EXTEND to the successors, assigns and nominees of the ASSIGNEE.

ASSIGNORS:



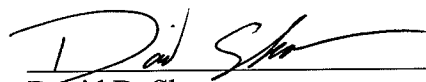
John R. Moser, Jr.
Residing at: 1953 Douglas Street, #10, Salt Lake City, UT 84105
1935 JRM

Date 9-15-2011



Richard L. Raun
Residing at: 320 North Main, Lindon, UT 84042

Date 9/12/2011



David D. Shaw
Residing at: 469 South 200 East, Bountiful, UT 84010

Date 9/12/2011

COUNTY OF Salt Lake)
: ss.
STATE OF Utah)

On this 15th day of September, 2011, before me personally appeared John R. Moser, Jr. to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same.

Tracee Cederbloom
Notary Public in and for said County and State

My Commission Expires:

July 25, 2015



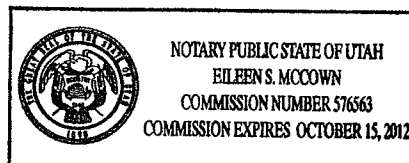
COUNTY OF Salt Lake)
: ss.
STATE OF Utah)

On this 15th day of September, 2011, before me personally appeared Richard L. Raun to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same.

Eileen McCown
Notary Public in and for said County and State

My Commission Expires:

October 15, 2012



COUNTY OF Salt Lake)
STATE OF Utah) : ss.

On this 12th day of September, 2011, before me personally appeared David D. Shaw to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same.

Eileen McCown
Notary Public in and for said County and State

My Commission Expires:

October 15, 2012

