

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>Harold E. Johnston</td> <td>05/03/2005</td> </tr> <tr> <td>Kirstin F. Warner</td> <td>05/03/2005</td> </tr> <tr> <td>Reed J. Blau</td> <td>05/03/2005</td> </tr> <tr> <td>Scott K. Lusk</td> <td>05/03/2005</td> </tr> </tbody> </table>		Name	Execution Date	Harold E. Johnston	05/03/2005	Kirstin F. Warner	05/03/2005	Reed J. Blau	05/03/2005	Scott K. Lusk	05/03/2005
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RECEIVING PARTY DATA											
Name:	Alliant Techsystems Inc.										
Street Address:	7480 Flying Cloud Drive										
City:	Minneapolis										
State/Country:	MINNESOTA										
Postal Code:	55344										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13477750</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13477750						
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CORRESPONDENCE DATA											
Fax Number:	(612)349-9266										
Phone:	612-349-5745										
Email:	pommier@ptslaw.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:	Douglas J. Christensen										
Address Line 1:	80 South 8th Street										
Address Line 2:	4800 IDS Center										
Address Line 4:	Minneapolis, MINNESOTA 55402										
ATTORNEY DOCKET NUMBER:	4203.43US01										
NAME OF SUBMITTER:	Ann Pommier										
Total Attachments: 2 source=4203.43US01 - Assignment#page1.tif source=4203.43US01 - Assignment#page2.tif											

OP \$40.00 13477750

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 M.S. MN01-2070, 5050 Lincoln Drive, Edina, MN 55436-1097, 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. 11/093,633 filed on March 30, 2005, and entitled **HEAVY METAL FREE, ENVIRONMENTALLY GREEN PERCUSSION PRIMER AND ORDNANCE AND SYSTEMS INCORPORATING 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;

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:

Harold E. Johnston
Harold E. Johnston
Residing at: 708 W. 600 S., Brigham City, UT 84302

Date 5/3/05

Kirstin F. Warner
Kirstin F. Warner
Residing at: 496 W. 3925 N., Ogden, UT 84414

Date 5/3/05

Reed J. Blau
Reed J. Blau
Residing at: P.O. Box 476, 75 East Main, Richmond, UT 84333

Date 5/3/05

Scott K. Lusk
Scott K. Lusk
Residing at: 8178 W. 10700 N., Clarkston, UT 84305-008

Date 5/3/05

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