

FORM PTO-1595 (Modified)
(Rev. 6-93)
OMB No. 0651-0011 (exp 4/94)
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P08/REV02

03-22-2000



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SHEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

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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):

Andrew B. Crickenberger

2. Name and address of receiving party(ies):

Name: Alliant Techsystems Inc.

Internal Address: Legal Department

MN11-2216

Street Address: 600 Second Street NE

City: Hopkins

State: MN

ZIP: 55343

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: Jan. 13, 2000

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: Jan. 13, 2000

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: George A. Leone

Internal Address: George A. Leone & Associates

Street Address: 2150 128th Ave. NW

City: Minneapolis

State: MN

ZIP: 55448

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00

☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☒ Authorized to be charged to deposit account

8. Deposit account number:

01-
04-0481 Alliant Techsystems Inc.

03/20/2000 DNGUYEN 00000188 010481 09503524

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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.

George A. Leone

Name of Person Signing

Signature

Feb. 14, 2000

Date

PATENT

REEL: 010615 FRAME: 0867

ASSIGNMENT

Whereas, I, **Andrew B. Crickenberger** of Fort Ashby, West Virginia, have invented certain new and useful improvements in a **MULTIPLE PULSE CARTRIDGE IGNITION SYSTEM**, for which the attached application is executed on even day herewith; and

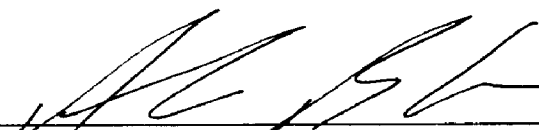
Whereas, **ALLIANT TECHSYSTEMS INC.**, a corporation organized and existing under the laws of the State of Delaware, and having its principal offices at 600 Second Street N.E., Hopkins, Minnesota 55343-8384 USA is desirous of acquiring the entire right, title and interest in and to said invention, said application and in, to and under any and all Letters Patent to be obtained therefore;

Now, therefore, for good and valuable consideration to me paid by the said **ALLIANT TECHSYSTEMS INC.**, the receipt of which is hereby acknowledged, I have sold, assigned and transferred, and by these presents do hereby sell, assign and transfer unto the said **ALLIANT TECHSYSTEMS INC.**, its successors and assigns, my entire right, title and interest in and to said invention, said application and the Letters Patent, both foreign and domestic, that may or shall issue, including all of my rights under any and all international conventions, treaties and/or agreements concerning patents to which the United States is a party, and I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to the above mentioned assignee in accordance herewith.

I further authorize said assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of said United States application and/or otherwise take advantage of the provisions of any international convention, treaty and/or agreement.

I do hereby covenant and agree with the said assignee, its successors and assigns, that I will not execute any writing or do any act whatsoever conflicting with these presents, and that I or my executors or administrators will at any time upon request, without further or additional consideration, but at the expense of the said assignee, its successors and assigns, execute such additional writings and do such additional acts as said assignee, its successors and assigns, may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, or of any and all foreign countries on said invention,

and in enforcing any rights, occurring as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents.



Andrew B. Crickenberger

Date Signed: JAN 13, 2000