

FORM PTO-1595 (Modified)  
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P08/REV03

09-23-2003

HEET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office



Tab settings

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To the Director of the United States Patent and Trademark Office, please record the attached original documents or copy thereof.

1. Name of conveying party(ies): 2003 SEP 17 AM 9: 08  
Richard M. Lloyd

**FINANCE SECTION**

9-17-03

Additional names(s) of conveying party(ies)  Yes  No

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

Name: Raytheon Company

Internal Address: \_\_\_\_\_

Street Address: 141 Spring Street

City: Lexington State: MA ZIP: 02421

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: September 11, 2003

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

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

A. Patent Application No.(s)

10/456,777

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Iandiorio & Teska

Internal Address: \_\_\_\_\_

09/22/2003 ECDOPER 00000022 10456777

01 FC:0021 40.00 DP

Street Address: 260 Bear Hill Road

City: Waltham State: MA ZIP: 02451

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:

09-0002

(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.*

Roy J. Coleman

Name of Person Signing

Signature

9/15/03

Date

**3**

Total number of pages including cover sheet, attachments, and document:

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services  
Director of the United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450

## ASSIGNMENT

WHEREAS, I, the signator hereto, have invented an improvement entitled KINETIC ENERGY ROD WARHEAD WITH LOWER DEPLOYMENT ANGLES (Raytheon Case No. 01E065B) and have executed an application for United States patent based thereon on the date set forth below;

WHEREAS, RAYTHEON COMPANY, of Lexington, Massachusetts 02421, U.S.A., a corporation duly organized and existing under and by virtue of the laws of the State of Delaware, U.S.A., is desirous of acquiring certain rights thereunder;

NOW, THEREFORE, for one dollar and other good and valuable consideration, receipt of all of which is hereby acknowledged, we have agreed to and do hereby sell, assign and transfer unto said corporation the entire right, title and interest, in and throughout the world, in and to said invention, said application and any and all patents (including extensions thereof) of any country, which have been or may be granted on said invention or any part thereof, or on said application or any divisional, continuing, substitute or reissue application based in whole thereon, or based upon said invention, and without limiting the generality of the foregoing, we also do hereby sell, assign and transfer unto said corporation all our rights under the International Convention and all other treaties of like purpose, in respect of said invention and application, and we authorize said corporation to apply for patents on said invention or any part thereof, in all countries, claiming the priority of the filing date of said application in the United States of America under the provisions of said international Convention or any such other treaty;

TO BE HELD AND ENJOYED by said corporation, its successors and assigns to the full ends of the respective terms for which said patents or any of them have been or may be granted, as fully and entirely as the same would have been held and enjoyed by me had no sale, assignment or transfer of said right, title or interest been made;

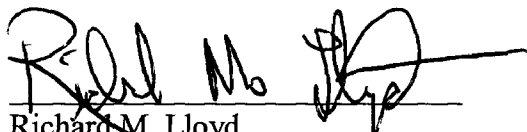
AND we do hereby authorize and request the Commissioner of Patents of the United States of America and the corresponding Office of each country foreign thereto to issue any and all United States and foreign patents which may be granted upon said applications or any of them in the United States and all other countries, or upon said invention or any part thereof, to said corporation, its successors or assigns.

AND we hereby agree for ourselves and for our heirs, executors and administrators, to execute without additional consideration any further lawful documents and any further assurances, and any applications for patents of any country, that might be deemed necessary by said corporation, its successors or assigns, fully to secure to said corporation its successors or assigns, its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them, all, however, at the expense of said corporation, its successors or assigns.

AND we hereby covenant for ourselves and our legal representatives, and agree with said corporation, its successors and assigns, that we have granted no right or license to make, use or sell said invention to anyone except said corporation, that prior to the execution of this our right, title and interest in said invention had not been otherwise encumbered, and that we have not

executed and will not execute any instrument in conflict herewith.

IN WITNESS WHEREOF, I Richard M. Lloyd, have hereunto set my hand and  
affixed my seal this 11th day of September, 2003.

  
Richard M. Lloyd

ACKNOWLEDGMENT

Commonwealth of Massachusetts }  
County of Middlesex }

On this 11th day of September, 2003, before me, a Notary Public within this state,  
personally appeared the above-named Richard M. Lloyd, personally known by me to be the  
identified person named in and who executed the foregoing instrument, and subscribed the same  
in my presence, and acknowledged that he executed the same as his voluntary and free act and  
deed.



Notary Public  
My commission expires: 10/24/08

[Notary's  
seal here]

RAY-143J  
Raytheon Case No. 01E065B  
KT:ok/mgt