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Patent and Trademark Office

MRD 026-98



100724918

To the Honorable Commissioner of Patent and Trademark

Original documents or copy thereof.

1. Name of conveying party(ies):
 Douglas Claffey

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

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

Name: Analytical Graphics, Inc.

Internal Address: _____

3. Nature of conveyance:

Assignment Merger

Security Agreement Change of Name

Other _____

Execution Date: March 4, 1998

Street Address: 325 Technology Drive

City: Malvern State: PA ZIP: 19355

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

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

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

A. Patent Application No.(s)
09/031,800

Additional numbers attached? Yes No

B. Patent No.(s)

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

Name: Jon L. Roberts, Esq.

Internal Address: _____

Street Address: Roberts & Brownell, LLC
8381 Old Courthouse Road, Suite 212

City: Vienna State: VA ZIP: 22182

6. Total number of applications and patents involved: 1

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

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:
18/1579

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

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9. Statement and signature.
 In 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.

02 FC:581 Jon L. Roberts, Esq. 40.00 OP

Name of Person Signing Jon L. Roberts Signature [Signature] Date 5/6/98

Total number of pages including cover sheet: 3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Douglas Claffey, James Woodburn

Serial No.: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Filed: 09/031,800

Examiner: Not Yet Assigned

**FOR: METHOD AND APPARATUS FOR DETERMINING CLOSE APPROACHES
FOR EARTH-FIXED LAUNCH TRAJECTORIES**

* * * * *

ASSIGNMENT Pursuant to 37 CFR § 3.56

* * * * *

I, Douglas Claffey, residing at 11 Rogers Way, Malvern, PA 19355 for good and valuable consideration, the sufficiency of which is hereby acknowledged, do hereby sell, assign and transfer unto Analytical Graphics, Inc., a corporation organized under the laws of the Commonwealth of Pennsylvania and having its principal office at 325 Technology Drive, Malvern, PA 19355 (hereinafter "ASSIGNEE,"), the entire right, title and interest, together with all rights of priority, in and to my invention for a **METHOD AND APPARATUS FOR DETERMINING CLOSE APPROACHES FOR EARTH-FIXED LAUNCH TRAJECTORIES**, as described and/or claimed in my application for Letters Patent of the United States of America, filed herewith, as well as all foreign counterparts thereof together with all Letters Patent issuing on the aforesaid application for Letters Patent, the same to be held and enjoyed by ASSIGNEE, its successors, assigns or other legal representatives, to the full ends of the terms of all said Letters Patent therefor which may be granted.

I HEREBY AUTHORIZE ASSIGNEE to make application for and to receive Letters Patent for said invention in any foreign countries in its own name, or in my name, at its election.

AND I HEREBY COVENANT AND AGREE that I will execute or procure any further necessary assurance of title to said invention and any Letters Patent which may issue therefor and that I will, at any time, upon the request and at the expense of ASSIGNEE deliver any testimony in any legal proceedings and execute all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent which may be granted therefor in ASSIGNEE, its successors, assigns, or other legal representatives, and that I will, at any time, upon the request and at the expense of the ASSIGNEE execute any continuations, divisions, reissues, or any other additional applications for Letters Patent for said invention or any part or parts thereof, all of which applications and any Letters Patent issuing thereof are hereby assigned to ASSIGNEE, and will make all rightful oaths, and do all lawful acts requisite for procuring the same therein, without further compensation, but at the expense of ASSIGNEE, its successors, assigns or other legal representatives.

AND I HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States for said invention, resulting from any of the aforesaid application to assignee.

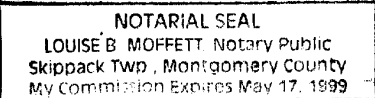
WITNESS MY HAND and seal this 4th of March, 1998.

Douglas Claffey
 Douglas Claffey

STATE OF PA)
) ss:
 COUNTY OF CHESTER)

On this 4th day of Mar, 1998 personally appeared before me **Douglas Claffey** to me known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Louise B. Moffett
 Notary Public



PATENT