

RECOF

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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): **52901**  
James S. MCLEAN and Gentry E. CROOK  
Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other

Execution Date: July 18, 2000 and July 18, 2000, respectively

2. Name and address of receiving party(ies):  
Name: **Tactical Systems Research, Inc.**  
Internal Address:  
Street Address: **5805 Highland Hills Terrace**  
City: **Austin** State: **Texas** Zip: **78731**  
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)  
**09/401,630**

EXPRESS MAIL OF THE APPLICATION IS:  
Date **5/29/01** Label No. **706741509US**  
I hereby certify that, on the date indicated above, this paper or file was deposited with the U.S. Postal Service & that it was addressed for delivery to the Assistant Commissioner for Patents, Washington, DC 20231 by "Express Mail Post Office to Addressee" service.  
**A. Diullo** Name (Print) **J. Diullo** Signature

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Darby & Darby P.C.  
Internal Address: Robert C. Sullivan, Jr.  
Street Address: 805 Third Avenue, 27th Floor  
City: New York State: New York Zip: 10022-7513

6. Total number of applications and patents involved: **1**  
7. Total fee (37 CFR 3.41):.....\$ 40  
 Enclosed  
 Authorized to be charged to deposit account  
8. Deposit account number:  
04-0100  
(Attach duplicate copy of this page if paying by deposit account)

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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.*

Lisa Ulrich (45,168)  
Name of Person Signing

Lisa Ulrich  
Signature

May 29, 2001  
Date

Total number of pages including cover sheet, attachments, and document: **4**

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

PATENT  
REEL: 011852 FRAME: 0276

ASSIGNMENT

**Mr. James Stuart McLEAN** a citizen of the **United States of America**; residing at **3207 Yellowpine Terrace, Austin, Texas, 78757**; and

**Ms. Gentry CROOK**, a citizen of the **United States of America**; residing at **3207 Yellowpine Terrace, Austin, Texas, 78757**

hereinbelow called "ASSIGNORS", have made certain inventions described in the patents and patent applications specified in SCHEDULE A, attached hereto

WHEREAS, **Tactical Systems Research, Inc.**, a corporation organized and existing under and by virtue of the laws of **Texas**, and having offices and doing business at 5805 Highland Hills Terrace, Austin, Texas 78731, hereinbelow called "ASSIGNEE", is desirous of securing the entire right, title and interest in and to the said inventions, applications and Letters Patents, when granted, and in and to any divisions, divisions, continuations, improvements, reissues or extensions that may be made or granted thereon;

NOW, THEREFORE, BE IT KNOWN that for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by the said Assignee, and other good and valuable consideration, the receipt of all of which is hereby acknowledged, each of us, the said Assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over unto the said Assignee, its successors and assigns, the entire right, title and interest throughout the world in and to the said inventions, applications and Letters Patents, when granted, and in and to any divisions, continuations, improvements, reissues or extensions that may be made or granted on any of them;

TO HAVE AND TO HOLD the same to the full end of the term or terms for which said Letters Patent may be granted, as fully and completely as the same might be held by me had this sale and assignment not been made.

For the consideration aforesaid, I hereby covenant and agree to and with the said Assignee, its successors and assigns, that whenever its counsel or representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with said application or invention, including interference proceedings, is lawful and desirable, or that a reissue or continuation or extension of said Letters Patent is lawful and desirable, I will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or for the reissue or continuation or extension of the same, and will do all acts necessary or required to secure to the said Assignee, its successors, and assigns, the title to and full benefit of all rights hereby assigned, without charge to said Assignee or its successors or assigns, but at its or their expense;

AND the Commissioner of patents and Trademarks is requested to issue the said Letters Patent, when granted, in accordance with this sale and assignment.


For the consideration aforesaid, I have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto the said Assignee, its successors, and assigns, or the nominees of any of them, the entire right, title and interest in and to any and all Letters Patent for said invention, which may be granted in countries foreign to the United States, and in and to any applications for Letters Patent, which may be filed for said invention in countries foreign to the United States, and in and to the invention described in said applications; and I hereby authorize and empower said Assignee and its successors, assigns or nominees, to apply for Letters Patent or other form of protection on aid invention in its own name or in the name of its successors, assigns or nominees, in any or all countries where it may desire to file such application, and where said application may be filed by another than the inventor; and I hereby covenant and agree to sign all papers and drawings, take all rightful oaths, execute all rightful affidavits, and do all acts necessary or required to be done for the procurement and maintenance of Letters Patent or other form of protection for said invention in countries foreign to the United States, and for further investing or confirming the right and title thereto in the Assignee, its successors, assigns or nominees, without charge to said Assignee, its successors, assigns or nominees, but at its or their expense.

I declare under penalty of perjury under the laws of the United States of America that I have signed this document as my own free act and that all of the foregoing is true and correct.

Dated: July 18, 2000

  
James Stuart McLEAN, Inventor

Dated: July 18, 2000

  
Gentry CROOK, Inventor

## SCHEDULE A

1. U.S. Patent No. 5,926,150 entitled "Compact Broadband Antenna for Field Generation Application" issued July 20, 1999.
2. U.S. Patent Application No. 09/293,008 entitled "Compact Broadband Antennas based on Folded, Top-loaded Broadband Dipoles with High-pass tuning Elements," filed on April 16, 1999 and claiming the benefit of U.S. Provisional Application No. 60/081,984 filed on April 16, 1998.
3. U.S. Patent Application No. 09/401,630 entitled "Transmission Line Transformer Providing a Frequency-dependent Impedance Transformation Ratio," filed on September 22, 1999 and claiming benefit of U.S. Provisional Application No. 60/101,283 filed on September 22, 1998.
4. U.S. Patent Application No. 09/428,220 entitled "Broadband Antenna Incorporating Both Electric and Magnetic Dipole Radiators," filed on October 26, 1999 and claiming the benefit of U.S. Provisional Application No. 60/105,612, filed on October 26, 1998.
5. International Application No. PCT/US99/25342 entitled "Broadband Antenna Incorporating Both Electric and Magnetic Dipole Radiators," filed on October 26, 1999 and claiming the benefit of U.S. Provisional Application No. 60/105,612, filed on October 26, 1998.
6. U.S. Patent Application No. 09/394,460 entitled "Antenna Formed Within a Conductive Surface," filed on September 11, 1999 and claiming the benefit of U.S. Provisional Application No. 60/099,992, filed on September 11, 1998.