

U.S. PTO  
11/974003  
09/19/2007

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103455436

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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

Mark L.G. Althouse

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

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 12 SEPTEMBER 2007

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

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

Name: National Security Agency

Internal Address: Attn: AGC(IP&T), Suite 6542

Street Address: 9800 Savage Road

City: Ft. Meade

State: Maryland

Country: USA Zip: 20755-6542

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

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

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

10/22/2007 D YRNE 00000112 140381 11974003

01 FC:8021

(40.00 DA)

11/974003

Additional numbers attached? ☐ Yes ☐ No

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

Name: National Security Agency

Internal Address: Attn: AGC(IP&T), Suite 6542

Street Address: 9800 Savage Road

City: Ft. Meade

State: Maryland Zip: 20755-6542

Phone Number: 301-688-0287

Fax Number: 301-688-0076

Email Address: \_\_\_\_\_

**6. Total number of applications and patents involved: 1**

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 14-0381

Authorized User Name Eric Froehlich

9. Signature: Eric Froehlich Signature

14 Sept. 2007  
Date

Eric Froehlich

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 2

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**PATENT  
REEL: 020014 FRAME: 0330**

ASSIGNMENT  
(Government Employee)

TITLE:  
Range Limited Antenna

INVENTOR:  
Mark L. G. Althouse

I, the undersigned inventor, in consideration of the rights of the Government of the United States acquired by virtue of the circumstances under which the above-identified invention was made, hereby:

1. Assign to the Government of the United States, as represented by the Director, National Security Agency, the entire right, title, and interest throughout the world in and to the above-identified invention and application for patent and all Letters Patent issuing thereon, and any continuation, continuation-in-part or division of said application and any reissue or extension of said Letters Patent.

2. Agree to provide any further information within my knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention, the prosecution and settlement of the interferences and recording of title to patent applications and patents.

INVENTOR: Dr. Mark L. G. Althouse

ADDRESS: (City) Belt Air (County) Harford  
(State) Maryland

DATE: 12 September 2007

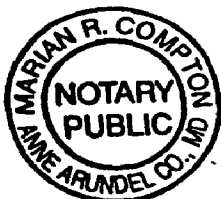
SIGNATURE: [Signature]

State of MARYLAND )  
County of ANNE ARUNDEL )

On 12 September 2007 (date), known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that he or she executed the same as their own free act and deed.

(SEAL)

Marian R. Compton  
(Signature)



MARIAN R. COMPTON  
Notary Public, State of Maryland  
Anne Arundel County  
My Commission Expires September 27, 2009