



02-03-1999



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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):

Brenda L Matkin,  
Ralph H. Halladay,  
and  
Susan D. Terrill

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

United States of America, as  
represented by the Secretary of the Army  
Washington, D. C. 20231

3. Nature of conveyance: ASSIGNMENT

Execution Date: April 30, 1998

4A. Patent Application Number(s):

09/072,998

4B. Patent Number(s):

5. Name and address of party to whom

correspondence concerning document should be mailed:

Commander  
U.S. Army Aviation and Missile Command  
ATTN: AMSAM-L-G-I (FMBush)  
Redstone Arsenal, AL 35898-5000

6. Total number of applications and patents involved: 1

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

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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.

*Freddie M. Bush*  
Freddie M. Bush, Reg. No. 27,616  
Telephone Number (256) 876-5108

25 January 1999  
Date

Total number of pages including cover sheet, attachments, and documents: 3 pages.

Mail documents to be recorded with required cover sheet information to :  
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PATENT  
REEL: 9729 FRAME: 0463

## ASSIGNMENT OF INVENTION

For use of this form, see AR 27-60; the proponent agency is OTJAG

Title of Invention: A Wideband Quasi-Optical Millimeter-Wave Resonator

Inventor(s): Brenda L. Matkin, Ralph H. Halladay and Susan D. Terrill

\*Application Serial No.: 09/072,998

\*Date Declaration Executed: April 30, 1998 \*Filing Date 05/06/98

(\*Data not known at execution may be added for better identification)

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

1. Assign to the Government of the United States, as represented by the Secretary of the Army, the entire right, title and interest throughout the United States, its Territories, Possessions, and Puerto Rico, in and to the above-entitled 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 assign to the Government upon its request, title and interest in the invention in those foreign countries in which the Government, within eight months of the filing of the United States application for patent, determines to cause an application to be filed; provided that if the Government determines not to cause an application to be filed in any particular foreign country or fails to make such a determination, within the said eight months, all right, title and interest in the invention in such foreign country shall remain in me (us), subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent which may issue on the invention in such foreign country, including the power to issue sublicenses for use in behalf of the Government and/or furtherance of the foreign policies of the Government.
3. Agree to provide any further information within my (our) knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention, the prosecution and settlement of interferences and recording of title to patent applications and patents issuing thereon.

Signature of Inventor: Brenda L. Matkin  
 (First Name) (Middle Initial) (Last Name)

Address: 1012 Matkin Cove Rd., Lacey's Spring, 35754 Morgan Alabama  
 (Locality) (County) (State)

Date 30 April 98 Typed Name of Inventor Brenda L. Matkin

State of ALABAMA )  
 ) ss.  
 County of MADISON )

On the above date Brenda L. Matkin known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that she executed the same as her own free act and deed.

James B. Sammons  
 (Signature of Notary Public)

(Seal)

My Commission expires on 26 Feb 2002

SUPPLEMENTAL SIGNATURE SHEET

For use of this form, see AR 27-60; the proponent agency is OTJAG

Use this form with DA Forms 2873-R and 2874-R when additional signature blocks are needed.

1. ASSIGNOR(s) or LICENSOR(s) NAME(s)  
Brenda L. Matkin, Ralph H. Halladay and  
Susan D. Terrill

2. APPLICATION SERIAL NUMBER  
09/077,998

3. FILING DATE  
05/06/98

4. TITLE OF INVENTION  
A Wideband Quasi-Optical Millimeter-Wave Resonator

Signature of Inventor: Ralph H Halladay  
(First Name) (Middle Initial) (Last Name)

Address: 133 Lake Pointe Circle, Huntsville, 35824 Madison Alabama

Date signed: 30 Apr 98 Inventor's Typed Name Ralph H. Halladay

State of ALABAMA )  
) ss.  
County of MADISON )

On the above date Ralph H. Halladay 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 executed the same as his own free act and deed.

James B. Sammons  
(Signature of Notary Public)

(Seal)

My Commission expires on 26 Feb 2002

Signature of Inventor: Susan D. Terrill  
(First Name) (Middle Initial) (Last Name)

Address: 1908 Willis Rd., Huntsville, 35801 Madison Alabama

Date signed: 30 April 98 Inventor's Typed Name Susan D. Terrill

State of ALABAMA )  
) ss.  
County of MADISON )

On the above date Susan D. Terrill 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 executed the same as his own free act and deed.

James B. Sammons  
(Signature of Notary Public)

(Seal)

My Commission expires on 26 Feb 2002