

Form PTO-1595
(Rev. 10/02)

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OMB No. 0651-0027 (exp. 6/30/2005)

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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):

- Christian G. Reiff
- Harold E. Boesch, Jr.
- Bruce T. Benwell

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

3. Nature of conveyance:

Assignment Merger

Security Agreement Change of Name

Other _____

Execution Date: 04/14/03 08/17/00

2. Name and address of receiving party(ies)

Name: United States of America as Represented by the Secretary of the Army

Internal Address: _____

Street Address: _____

City: Washington State: DC Zip: _____

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) 10/693,483

B. Patent No.(s) _____

Additional numbers attached? Yes No

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

Name: Office of Command Counsel

Internal Address: U.S. Army Materiel Command,
ATTN: AMCCC-B-IP

Street Address: 9301 Chapek Road

City: Fort Belvoir State: VA Zip: 22060-5527

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:

19-2201 U.S. Army Materiel Command

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9. Signature.

William V. Adams Reg No. 32,552  16 January 2004

Name of Person Signing Signature Date

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

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

CH \$40.00 192201 10693483

ASSIGNMENT OF INVENTION

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

Title of Invention: Surface Arc Discharge Acoustic and Light Source

Inventor(s): Christian G. Reiff, Harold E. Boesch, Jr. and Bruce T. Benwell

* Application Serial No.: 10/693,483

* Date Oath Executed: 09/04/2003, 09/03/2003, 10/10/2003 * Filing Date: 10/23/2003

(*Date 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.

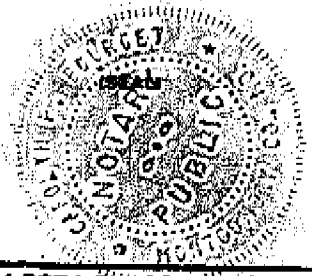
Signature of Inventor: Christian G. Reiff (First name), (Middle Initial), (Last name)

Duty Address: US ARL AMSRL-SE-DS, Adelphi, Montgomery, MD 20783-1197 (Locality), (Country), (State)

Date: 4/14/03 Typed Name of Inventor: Christian G. Reiff

State of Maryland)
County of Montgomery) SS.

On the above date Christian G. Reiff known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that the same as his own free act and deed.



Signature of notary public: Carolyn P. Bourget

My Commission expires on November 1, 2003

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) Christian G. Reiff, Harold E. Boesch, Jr. and Bruce T. Benwell	2. APPLICATION SERIAL NUMBER 101693483
	3. FILING DATE 10/23/2003

4. TITLE OF INVENTION Surface Arc Discharge Acoustic and Light Source

SIGNATURE OF INVENTOR: Harold E. Boesch, Jr.
(First name) (Last name) (Last name)

DUTY ADDRESS: US ARL AMSRL-SE-DS, Adelphi, Montgomery, MD 20783-1197

DATE SIGNED: April 17, 2003 INVENTOR'S TYPED NAME: Harold E. Boesch, Jr.

STATE OF Maryland)
 COUNTY OF Montgomery) SS.

On the above date Harold E. Boesch, Jr. 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.

Carolyn P. Bourget
(Signature of notary public)

My Commission expires on December 1, 2003

SIGNATURE OF INVENTOR: B. T. Benwell
(First name) (Last name) (Last name)

DUTY ADDRESS: 5425 Tall Cedar Road, Summerduck, Fauquier, VA 22742

DATE SIGNED: 8/17/00 INVENTOR'S TYPED NAME: Bruce T. Benwell

STATE OF Maryland)
 COUNTY OF Montgomery) SS.

On the above date Bruce T. Benwell 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.

Carolyn P. Bourget
(Signature of notary public)

My Commission expires on December 1, 2003