

04-27-2001

Form PTO-1595

RE



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U.S. Dept. of Commerce
Patent and Trademark Office

Our Reference: E-1349 CIP

9.26.00

101671593

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

1. Name of conveying party(ies):

M Bliss, RA Craig, and PL Reeder

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: 29 Aug., 1997

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

Name: Battelle Memorial Institute K1-53
 Internal Address: K1-53
P.O. Box 999
Intellectual Property Services
 Street Address: 902 Battelle Blvd.
Intellectual Property Services

City: Richland State: WA Zip: 99352

Additional name(s) & addresses 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: 29 AUG 1997

A. Patent Application No.(s): _____

B. Patent No.(s): _____

Additional numbers attached? Yes No

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

Name: Paul W. Zimmerman
 Internal Address: K1-53
P.O. Box 999
Intellectual Property Services
 Street Address: 902 Battelle Blvd.
 City: Richland State: WA Zip: 99352

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: #02-1275 (Payor No. 005055)

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

JCP13 U.S. PTO
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 09/26/00

DO NOT USE THIS SPACE

9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct, any attached copy is a true copy of the original document.

Paul W. Zimmerman
Name of person signing

Paul W. Zimmerman
Signature

9/19/97
Date

Total number of pages comprising cover sheet: 4

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents
Box Assignments
Washington, D.C. 20231

PATENT
REEL: 011512 FRAME: 0852

A S S I G N M E N T

Mary Bliss
Richard A. Craig
Paul L. Reeder

to

Battelle Memorial Institute

WHEREAS we, Mary Bliss, of West Richland, in the County of Benton, and State of Washington; Richard A. Craig, of West Richland, in the County of Benton, and State of Washington; and Paul L. Reeder, of Richland, in the County of Benton, and State of Washington, have made certain inventions in SCINTILLATOR WAVEGUIDE FOR SENSING RADIATION, for which we are about to make application for Letters Patent of the United States; and

WHEREAS Battelle Memorial Institute, a corporation of Ohio, organized and existing under the laws of the State of Ohio, and having a place of business in the City of Richland, Washington, is desirous of acquiring an interest in the said invention and in any patent or patents to be obtained therefor;

NOW, THEREFORE, To All Whom It May Concern, be it known that, for and in consideration of the sum of One Dollar (\$1.00) each, and other good and valuable considerations, the receipt of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto the said Battelle Memorial Institute, the entire right, title, and interest in and to the invention shown, described, or claimed therein, and the full and exclusive right and title to the said application, executed by me on the 29th day of August, 1997, preparatory to obtaining Letters Patent of the United States therefor; and in and to any extensions, reissues, divisions, or renewals thereof; and we do hereby authorize and request the Commissioner of Patents or other proper Officer, to issue such Letters Patent, or any of them, to the said Battelle Memorial Institute, as the assignee of our entire right, title, and interest in and to the same for the sole use and benefit of the said Battelle Memorial Institute, and its successors or assigns.

And we further covenant and agree that we will, at the request and expense of the said Battelle Memorial Institute, execute such other and further assurances of title as may be necessary or proper to fully convey the

interest herein sought to be conveyed; that we will, at the request and expense of the said Battelle Memorial Institute, execute such application papers as may be desired by the said Battelle Memorial Institute, for the filing of any division or renewal of the application herein conveyed, or for reissues or extensions, of any Letters Patent that may be granted upon said application, and will execute such Supplemental Oaths and Preliminary Statements, or other papers as desired by the said Battelle Memorial Institute.

And we further assign unto the said Battelle Memorial Institute, the whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Battelle Memorial Institute to apply for patents therefor in its own name in countries where such procedure is proper and to claim the benefit of the International Convention and do agree to execute applications for the said invention in the several countries where it is necessary that the same be executed by the inventors, and to execute assignments of such applications and the patents to be obtained therefor to the said Battelle Memorial Institute, the assignee herein, as well as all other necessary papers.

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 29 day of August, 1997.

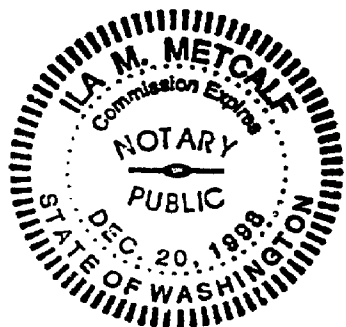
Mary Bliss

Mary Bliss (1st Inventor)

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 29th day of August, 1997, before me a Notary Public in and for the County aforesaid, personally appeared Mary Bliss, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.

SEAL



Ila M. Metcalf

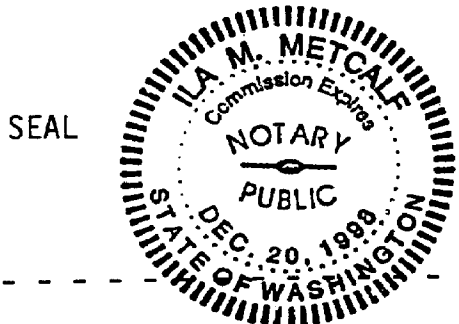
Ila M. Metcalf
Notary Public
Commission Expires 12/20/98

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 29 day of August, 1997.

Richard A. Craig
Richard A. Craig (2nd Inventor)

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 29th day of August, 1997, before me a Notary Public in and for the County aforesaid, personally appeared Richard A. Craig, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.



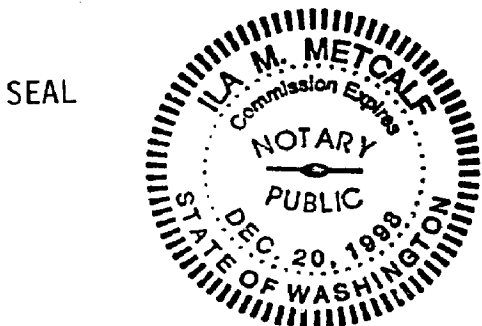
Ila M. Metcalf
Ila M. Metcalf
Notary Public
Commission Expires 12/20/98

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 29 day of August, 1997.

Paul L. Reeder
Paul L. Reeder (3rd Inventor)

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 29th day of August, 1997, before me a Notary Public in and for the County aforesaid, personally appeared Paul L. Reeder, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.

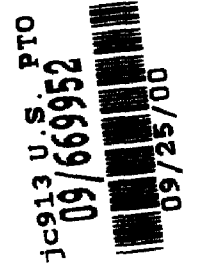


Ila M. Metcalf
Ila M. Metcalf
Notary Public
Commission Expires 12/20/98

PATENT

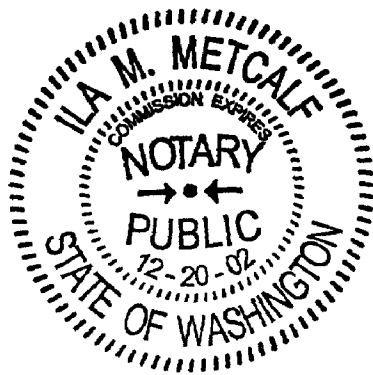
File No. E-1349 CIP DIV

NOTARIAL CERTIFICATE



I, Ila M. Metcalf, a Notary Public for the State of Washington, to hereby certify that the attached is a true and exact copy of the Assignment for prior application serial number 08/924,357, filed 09/05/97.

IN WITNESS WHEREOF, I have signed my name and affixed my official seal this 21st day of September 2000.



Ila M. Metcalf
Ila M. Metcalf, Notary Public
State of Washington
Commission Expires December 20, 2002