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U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

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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):

Jun (nmn) Xu  
Jeremy (NMN) Moxom

06/28/01

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

Name: UT-Battelle, LLC

Internal Address: \_\_\_\_\_

P. O. Box 2008

Mail Stop 6498

Street Address: 111B Union Valley Road

City: Oak Ridge State: TN Zip: 37831

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

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: May 21, 2001

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: 5/21/01

A. Patent Application No.(s)

B. Patent No.(s)

09/894776

Additional numbers attached? ☐ Yes ☒ No

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

Name: James M. Spicer

Internal Address: UT-Battelle, LLC

P. O. Box 2008

Mail Stop 6498

Street Address: 111B Union Valley Road

City: Oak Ridge State: TN Zip: 37831

## 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:

13-1958

(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.

James M. Spicer

Name of Person Signing

James M. Spicer  
SignatureJune 28, 2001  
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. 2023107/19/2001 00000042 131958 09894776  
01 FC:581 40.00 CHPATENT  
REEL: 011981 FRAME: 0380

## ASSIGNMENT

WHEREAS, WE, the below-named inventors whose residence and post office are as stated below, have invented certain new and useful improvements in a

**Positron Lifetime Spectrometer Using a DC Positron Beam**

(hereinafter referred to as "Subject Invention") for which an application for United States Letters Patent was executed by us on even date herewith, and

WHEREAS, UT-BATTELLE, LLC, a limited liability company of the State of Tennessee, having an office at 111-B Union Valley Road, P. O. Box 2008, Oak Ridge, Tennessee 37831-6498, hereinafter referred to as "ASSIGNEE," is desirous of acquiring the entire right, title and interest of the undersigned in the Subject Invention and to any Letters Patent that may be granted therefor in the United States of America and in any and all foreign countries.

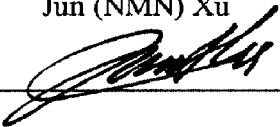
NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby assign to ASSIGNEE our entire right, title and interest in the Subject Invention to all rights of priority thereto pursuant to the International Convention for the Protection of Industrial Property, and in any Letters Patent on the Subject Invention that may be granted in the United States of America and in any and all foreign countries, including any and all Letters Patent that are divisions, reissues, continuations, substitutions or extensions of any Letters Patent or applications therefor on the Subject Invention.

We hereby authorize and request the Commissioner of the United States Patent and Trademark Office and the officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to the ASSIGNEE.

Further, we hereby agree to communicate to said ASSIGNEE or its representatives any facts known to us respecting said Subject Invention, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, to execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, and to make all rightful oaths and generally do everything possible to aid said ASSIGNEE and its representatives to obtain and enforce proper protection for said Subject Invention in the United States of America and in any and all foreign countries.

We further agree that the terms, covenants and conditions of this assignment shall inure to the benefit of ASSIGNEE, its successors, assigns, and legal representatives, and shall be binding on us, our heirs, legal representatives, and assigns.

Full name of inventor: Jun (NMN) Xu

Signature: 

Date: 5/21/2001

Residence: Knoxville, Tennessee

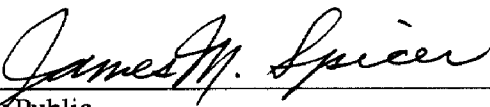
Post Office Address: 1420 Bayhill Ridge Lane, Knoxville, Tennessee 37922

State of Tennessee)

County of Anderson )

On this 21 day of May, 2001, before me, a Notary Public in and for the County and State aforesaid, appeared Jun (NMN) Xu to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

  
Notary Public

SEAL

My Commission Expires: August 16, 2004

Full name of inventor: Jeremy (NMN) Moxom

Signature: Jeremy Moxom Date: 21 May 01

Residence: Knoxville, Tennessee

Post Office Address: 5508 Peyton Place, Knoxville, Tennessee 37918

State of Tennessee)

County of Anderson)

On this 21 day of May, 2001, before me, a Notary Public in and for the County and State aforesaid, appeared Jeremy (NMN) Moxom to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

James M. Spicer  
Notary Public

SEAL

My Commission Expires: August 16, 2004