

Form PTO-1595 (Rev. 03-09)
OMB No. 0651-0027 (exp. 03/31/2009)

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ARI, 03-23

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1. Name of conveying party(ies)

T. Richard Jow

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

2. Name and address of receiving party(ies)

Name: The United States of America as represented by the

Internal Address: Secretary of the Army

Street Address: _____

City: Washington

State: DC

Country: USA Zip: 20310

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

Execution Date(s) _____

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
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Corrected Assignment to correct Assignor Name.

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

11/518,748

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: U.S. Army Research Laboratory

Internal Address: Attn: RDRL-LOC-I/Guy M. Miller

Street Address: 2800 Powder Mill Road

City: Adelphi

State: Maryland Zip: 20783

Phone Number: 301-394-3791

Fax Number: 301-394-3972

Email Address: guy.m.miller@arl.army.mil

6. Total number of applications and patents involved: 1

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

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8. Payment Information

Deposit Account Number 19-2201

Authorized User Name Guy M. Miller

9. Signature:

Guy M. Miller
Signature

4-15-10
Date

Guy M. Miller, Reg. No. 32,333

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TO: U.S. ARMY RESEARCH LABORATORY COMPANY: ATTN: RDRL-LOC GUY M. MILLER

3013943972

office of chief counsel

11/18/2009
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11-18-2009

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Form FTD-1585 (Rev. 03-09)
OMB No. 0851-0027 (exp. 03/31/2009)

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RECORDATION FORM COVER SHEET
PATENTS ONLY

ARL 03-23

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)

Shenghui Zhang
Conrad Xu
T. Richard Zow

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

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

Execution Date(s) 9/7/2006

- 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: The United States of America as represented by the

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City: Washington

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Country: USA Zip: 20310

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City: Adelphi

State: Maryland Zip: 20783

Phone Number: 301-394-3791

Fax Number: 301-394-3872

Email Address: guy.m.miller@army.mil

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 4000

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- None required (government interest not affecting title)

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Deposit Account Number 19-2201

Authorized User Name Guy M. Miller

9. Signature:

Guy M. Miller
Signature

11-18-09
Date

Guy M. Miller, Reg. No. 32,333
Name of Person Signing

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CH \$40.00 192201 11518748

ASSIGNMENT OF INVENTION

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

Title of Invention: Metal Borate Synthesis Process

Inventor(s) Shengshui Zhang, Conrad Xu and T. Richard Jow

*Application Serial No.: 11/518,748

ARL 03-23

*Date Oath Executed: 9/7/2006

*Filing Date: 9/7/2006

(*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: _____

Shengshui Zhang
(First name) (Middle Initial) (Last name)

Duty Address: US ARL, AMSRD-ARL-SE-DC, Adelphi Montgomery Maryland 20783-1197
(Locality) (County) (State)

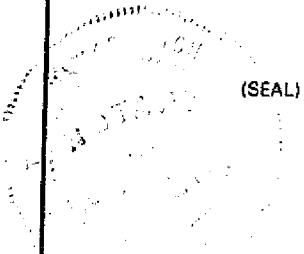
Date: 09/07/2006 Typed Name of Inventor: Shengshui Zhang

State of: Maryland)
County of: Montgomery) SS

On the above date Shengshui Zhang 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.

Twin Hanby Beuberman
(Signature of notary public)

My Commission expires on 1/9/10



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)

Shengshui Zhang, Conrad Xu and T. Richard Jow

2. APPLICATION SERIAL NUMBER

11/518,748

ARL 03-23

3. FILING DATE

9/7/2006

4. TITLE OF INVENTION

Metal Borate Synthesis Process

SIGNATURE OF INVENTOR:

(First name)

(Middle initial)

(Last name)

DUTY ADDRESS: US ARL, AMSRD-ARL-SE-DC, Adelphi Montgomery Maryland 20783-1197

DATE SIGNED:

09/07/06

INVENTOR'S TYPED NAME:

Conrad Xu

STATE OF

Maryland

COUNTY OF

Montgomery

SS.

On the above date Conrad Xu 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.

(SEAL)

Terin Hawke Beubaner
(Signature of notary public)

My Commission expires on

1/9/10

SIGNATURE OF INVENTOR:

(First name)

(Middle initial)

(Last name)

DUTY ADDRESS: US ARL, AMSRD-ARL-SE-DC, Adelphi Montgomery Maryland 20783-1197

DATE SIGNED:

09/07/2006

INVENTOR'S TYPED NAME:

T. Richard Jow

STATE OF

Maryland

COUNTY OF

Montgomery

SS.

On the above date T. Richard Jow 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.

(SEAL)

Terin Hawke Beubaner
(Signature of notary public)

My Commission expires on

1/9/10