

10-02-2001



101861473

Form PTO-1595

(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

## PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE  
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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):

Li-Qian Xing, Todd C. Hufnagel, and Kaliat T. Ramesh

Additional name(s) of conveying party(ies) attached?

☐ Yes☒ No

## 3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: September 13, 2001

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

Name: Johns Hopkins University

Internal Address:

Street Address:

708N Wyman Park Center  
3400 N. Charles Street

City: Baltimore

State: MD

Zip: 21218-2695

Additional name(s) &amp; 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 new application is: September 13, 2001

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: Eric Oliver

DICKSTEIN SHAPIRO MORIN &amp; OSHINSKY LLP

Internal Address: Atty. Dkt.: J5450.0027/P027

Street Address: 2101 L Street NW

City:

Washington

State:

DC

Zip:

20037-1526

## 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:

04-1073

(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.

Eric Oliver

Name of Person Signing

Signature

September 25, 2001

Date

Total number of pages including cover sheet, attachments, and documents: 8

09/26/2001 SFELEKE1 00000028 09960946

04 FC:581

40.00 DP

## ASSIGNMENT BY INVENTORS

**THIS ASSIGNMENT**, made this fifth day of September, 2001 by Li-Qian Xing, Todd C. Hufnagel, and Kaliat T. Ramesh (hereinafter referred to as Assignors), residing at 9476 Olive Boulevard Apt. H, St. Louis, Missouri 63132; 2112 Pitney Road, Parkville, Maryland 21234; and 2821 Carroll Wind Drive, Ellicott City, Maryland 21043; respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in ALLOY WITH METALLIC GLASS AND QUASI-CRYSTALLINE PROPERTIES, set forth in a Provisional application for Letters Patent of the United States, already filed on September 25, 2000 as U.S. application No. 60/234,976; and

**WHEREAS**, Johns Hopkins University, a corporation organized under and pursuant to the laws of Maryland having its principal place of business at 708N Wyman Park Center, 3400 N. Charles Street, Baltimore, Maryland 21218-2695 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor and thereon.

**NOW, THEREFORE**, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto

Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

**AND** for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and

assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Provisional application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

**AND** Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

**AND** Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

**DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP**

Gary M. Hoffman

26,41 Laurence E. Fisher

37,13 Gianni Minutoli

41,19

Thomas J. D'Amico	28,37	John C. Luce	34,37	Michael Bergman	42,31
Donald A. Gregory	28,95	William E. Powell, III	39,80	Mark E. Strickland	45,13
James W. Brady, Jr.	32,11	Patrick T. Skacel	47,94	Salvatore P. Tamburo	45,15
Jon D. Grossman	32,69	Gary L. Veron	39,05	Peter Veytsman	45,92
Mark J. Thronson	33,08	Mialeeka C. Williams-	48,03	Christopher S. Chow	46,49
Eric Oliver	35,30	Jeremy A. Cubert	40,39		

**AND** Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Li-qian Xing

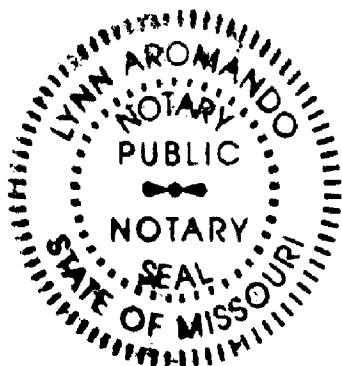
Li-qian Xing

Date: 9/6/01


United States of America )  
State Missouri ) ss.:  
County St. Louis City )

On 6th day September, 2001, before me  
personally Li-qian Xing, to me known to be the  
described in and who executed the foregoing instrument, and  
of the same.

Lynn Aromando  
Notary Public



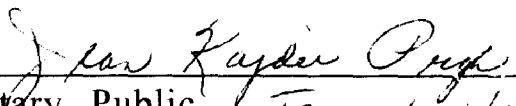
LYNN AROMANDO  
NOTARY PUBLIC, STATE OF MISSOURI  
MY COMMISSION EXPIRES APRIL 11, 2004  
ST. LOUIS CITY

  
Kaliat T. Ramesh

Date: 9/13/01

United States of America )  
State Maryland ) SS.:  
County Baltimore )  
City

On 13th day September, 2001, before me  
personally Kaliat T. Ramesh, to me known to be the  
described in and who executed the foregoing instrument, and  
of the same.

  
Notary Public Jean Kajder Pugh

My Commission Expires June 1, 2002

Todd C. Hufnagel  
Todd C. Hufnagel

Date: 9/13/01

United States of America     )  
State Maryland     ) ss.:  
County Baltimore     )  
City

On 13th day September, 2001, before me  
personally Todd C. Hufnagel, to me known to be the  
described in and who executed the foregoing instrument, and  
of the same.

Jean Kayden Pugh  
Notary Public Jean Kayden Pugh

My Commission expires June 2002