

2/22/5

Docket No.: DREX-1003US

FORM PTO-1595 (Modified)  
(Rev. 03-01)  
OMB No. 0651-0027 (exp. 5/31/2002)  
POBA/REV03

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03-01-2005



U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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To the Director of the United States Patent and Trademark Office: Please

attached original documents or copy thereof.

1. Name of conveying party(ies):

Wan Y. Shih  
Wei-Heng Shih  
Huiming Gu

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

Name: Drexel University

Address: 32nd and Chestnut Streets

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

City: Philadelphia

State/Prov.: PA

Country: US

ZIP: 19104

Execution Date: January 14, 2005 & February 5, 2005

Additional name(s) & address(es)

☐ Yes ☒ No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

Patent Application No.

Filing date

B. Patent No.(s)

10/981,985

November 5, 2004

Additional numbers

☐ Yes ☒ No

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

Name: Kevin J. Dunleavy

Registration No. 32,024

Address: Eight Penn Center, Suite 1350

1628 John F. Kennedy Boulevard

City: Philadelphia

State/Prov.: PA

Country: US

ZIP: 19103

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

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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.*

Kevin J. Dunleavy

Name of Person Signing

02/28/2005 DBYRNE 00000209 10981985

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Director of the United States Patent and Trademark Office  
P.O. Box 1450 Alexandria, VA 22313-1450

Signature

February 17, 2005

Date

5

PATENT

REEL: 016299 FRAME: 0330

## ASSIGNMENT

WHEREAS, We, Wei-Heng Shih, residing at 641 Heather Lane, Bryn Mawr, PA 19010, United States of America, and Huiming Gu, 102 Holmes Road, Holmes, PA, 19043, United States of America, and Wan Y. Shih, residing at 641 Heather Lane, Bryn Mawr, PA 19010, United States of America, (hereinafter referred to as "the Assignor"), are the inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as **Attorney Docket No. DREX-1003US** entitled **Method of Making Mixed Metal Oxide Ceramics**, having been filed on November 5, 2004, and assigned U.S. Patent Application No. 10/981,985.

WHEREAS, DREXEL UNIVERSITY, A Pennsylvania Corporation, having a place of business at 32<sup>nd</sup> and Chestnut Streets, Philadelphia, PA 19104, United States of America, (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, We, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said applications including the right to claim priority to the applications in any foreign application entitled to claim such priority under national law, international conventions, treaties or otherwise, and any and all continuations, divisions and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our name applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

AND We hereby covenant that We have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, all known facts respecting said inventions or improvements, said applications and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign

applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Director – U.S. Patent and Trademark Office and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the applications aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, I have hereunto set my hand and seal.

Dated: 2/5/05

Wei-Heng Shih (L. S.)  
Wei-Heng Shih, Inventor

Notarial Certificate

State of Pennsylvania )  
County DELAWARE )

Before me personally appeared Wei-Heng Shih, who acknowledged the foregoing instrument to be a free act and deed and also represented that he is authorized to execute the same the FIFTH day of FEBRUARY, in the year 2005.

Notary Public

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal  
Steven G. Demarest, Notary Public  
City of Philadelphia, Philadelphia County  
My Commission Expires July 22, 2006

Member, Pennsylvania Association of Notaries

IN WITNESS WHEREOF, I have hereunto set my hand and seal.

Dated: 01/14/2005

Huiming Gu  
Huiming Gu, Inventor

(L. S.)

Notarial Certificate

State of PA. )  
County DEL )

Before me personally appeared Huiming Gu, who acknowledged the foregoing instrument to be a free act and deed and also represented that he is authorized to execute the same the 14 day of JANUARY, in the year 2005.

William G. Fulker  
Notary Public

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal  
William G. Fulker, Notary Public  
Morton Boro, Delaware County  
My Commission Expires May 15, 2008

Member, Pennsylvania Association Of Notaries

IN WITNESS WHEREOF, I have hereunto set my hand and seal.

Dated: 2/5/2005 Wan Shih (L. S.)  
Wan Y. Shih, Inventor

Notarial Certificate

State of PENNSYLVANIA )  
County DELAWARE )

Before me personally appeared Wan Y. Shih, who acknowledged the foregoing instrument to be a free act and deed and also represented that he is authorized to execute the same the FIFTH day of FEBRUARY, in the year 2005.

[Signature]  
Notary Public

COMMONWEALTH OF PENNSYLVANIA  
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City of Philadelphia, Philadelphia County  
My Commission Expires July 22, 2006  
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