

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6672154

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JANICE E. BOERCKER	04/16/2021
JOSEPH G. TISCHLER	04/15/2021
CHASE T. ELLIS	04/21/2021
PAUL D. CUNNINGHAM	04/16/2021
RHONDA M. STROUD	04/20/2021
MICHAEL H. STEWART	04/20/2021
STEVEN C. ERWIN	04/22/2021
SARAH F. BRITTMAN	04/16/2021
PATRICK Y. YEE	04/15/2021
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF THE NAVY
<b>Street Address:</b>	875 NORTH RANDOLPH STREET
<b>Internal Address:</b>	SUITE 1425
<b>City:</b>	ARLINGTON
<b>State/Country:</b>	VIRGINIA
<b>Postal Code:</b>	22203
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17238265
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)404-7380
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	202-404-1558
<b>Email:</b>	patent.docketing@nrl.navy.mil
<b>Correspondent Name:</b>	NAVAL RESEARCH LABORATORY ASSOCIATE COUN
<b>Address Line 1:</b>	CODE 1008.2
<b>Address Line 2:</b>	4555 OVERLOOK AVENUE, S.W.
<b>Address Line 4:</b>	WASHINGTON, D.C. 20375-5320

<b>ATTORNEY DOCKET NUMBER:</b>	113009-US2
<b>NAME OF SUBMITTER:</b>	JOSLYN BARRITT
<b>SIGNATURE:</b>	/Joslyn Barritt /
<b>DATE SIGNED:</b>	04/23/2021

**Total Attachments: 18**

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## ASSIGNMENT BY INVENTORS (US)

**THIS ASSIGNMENT**, made by Janice E. Boercker, Joseph G. Tischler, Chase T. Ellis, Paul D. Cunningham, Rhonda M. Stroud, Michael H. Stewart, and Steven C. Erwin, residing in Fairfax, Virginia; Alexandria, Virginia; Silver Spring, Maryland; Baltimore, Maryland; Washington, DC; Springfield, Virginia; and Alexandria, Virginia, respectively (the “Assignors”);

**WHEREAS**, Assignors, while employed by the Government of the United States, have invented certain new and useful improvements in **Synthesis of  $\text{Cu}_{2-x}\text{S}/\text{PbS}$  Core/Shell Nanocrystals**, set forth in U.S. Provisional Patent Application No. **63/014,801** filed on April 24, 2020, and in  **$\text{Cu}_{2-x}\text{S}/\text{PbS}$  Core/Shell Nanocrystals**, set forth in an Application for Letters Patent of the United States filed concurrently herewith (the “Inventions”); and

**WHEREAS**, The Government of the United States of America, as represented by the Secretary of the Navy, a Federal Agency (hereinafter referred to as the Government), is desirous of acquiring the entire right, title and interest in and to the Invention, and in and to any applications for Letters Patent to be obtained therefor and thereon in the United States and worldwide (the “Patent Applications”), and in and to any Letters Patent on the Inventions granted from the Patent Applications, including all regional patents such those from the European patent organization and all Patent Cooperation Treaty member states;

**WHEREAS**, by acquiring the Assignors' entire right, title, and interest in and to the invention the Government will be enabled to license the invention and share the income from the licensing with the Assignors as allowed by law;

**NOW, THEREFORE**, in consideration of the premises and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors hereby assign, transfer, and set over unto the Government, its successors, legal representatives, and assigns, their entire right, title, and interest in and to the Invention and the Patent Applications in and to any and all direct and indirect divisions, continuations, and continuations-in-part of the Patent Applications; in and to any and all Letters Patent in the United States and worldwide which may be granted therefor and thereon; in and to any and all reissues, reexaminations, and

extensions of said Letters Patent; and in and to all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Government for its own use and benefit and the use and benefit of its successors, legal representatives, and assigns. This assignment, grant, and transfer is made for and until 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 assignment not been made. This assignment is made nunc pro tunc.

**AND** for the same consideration, Assignors hereby represent and warrant to the Government, 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 the Government under law or that have already been transferred to the Government, Assignors are the sole and lawful owners of the entire right, title, and interest in and to the above-mentioned inventions and application(s) for Letters Patent; that their rights, titles, and/or interest in the above-mentioned inventions and application(s) for Letters Patent 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 the Government, 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 the Invention worldwide, without charge to the Government, its successors, legal representatives, and assigns, whenever counsel of the Government, or counsel of its successors, legal representatives, and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application(s) for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is lawful and desirable; or that any division, continuation, or continuation-in-part of any application(s) 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 the Government as Assignee of the Invention and the Letters Patent to be issued thereon for the sole use and benefit of the Government, its successors, legal representatives, and assigns.

**AND** Assignors hereby also grant unto the Government the right to claim priority to the application(s) identified above.

**AND** Assignors hereby further agree to make, execute, and deliver to the Government, any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of any Patent Application; any continuation, division, or substitution of any Patent Application; or any application for reissue or extension of any Letters Patent on the Inventions, and further agree to assist the Government in every way in protecting the invention as may be requested, provided that any expense arising through such efforts will be paid by the Government.

**AND** Assignors hereby appoint all practitioners at Customer Number 26384, all of US Naval Research Laboratory, 4555 Overlook Ave, SW, Code 1008.2, Washington, DC 20375, jointly, and each of them severally, as our attorneys at law/patent agent(s), with full power of substitution, delegation and revocation, to prosecute the Patent Applications, to make alterations and amendments therein, and to transact all business in the U. S. Patent and Trademark Office connected therewith and in all other Patent Cooperation Treaty member states with respect to any and all Letters Patent which may be granted therefor and thereon, and with respect to any and all 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 the Government.

**AND** Assignors hereby grant all practitioners at Customer Number 26384 the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of any foreign patent office for recordation of this document.

Date: 4/16/21 Signature: /Janice E. Boercker/  
Janice E. Boercker, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Joseph G. Tischler, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Chase T. Ellis, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Paul D. Cunningham, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Rhonda M. Stroud, Assignor

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Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Janice E. Boercker, Assignor

Date: 04/15/2021 Signature: /Joseph Tischler/  
Joseph G. Tischler, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Chase T. Ellis, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Paul D. Cunningham, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Rhonda M. Stroud, Assignor

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Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Janice E. Boercker, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Joseph G. Tischler, Assignor

Date: 21 APR 2021 Signature: /Chase Ellis/  
Chase T. Ellis, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Paul D. Cunningham, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Rhonda M. Stroud, Assignor



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Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Janice E. Boercker, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Joseph G. Tischler, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Chase T. Ellis, Assignor

4/16/2021  
Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
/Paul D. Cunningham/  
Paul D. Cunningham, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Rhonda M. Stroud, Assignor

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Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Janice E. Boercker, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Joseph G. Tischler, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Chase T. Ellis, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Paul D. Cunningham, Assignor

4/20/2021  
Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
/Rhonda Stroud/  
Rhonda M. Stroud, Assignor

04/20/2021

Date: \_\_\_\_\_ Signature: /Michael H. Stewart/  
Michael H. Stewart, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Steven C. Erwin, Assignor

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Kerry L. Broome  
Associate Counsel, IP  
Naval Research Laboratory;  
Authorized Representative for  
Assignee, The Government of the  
United States of America

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Michael H. Stewart, Assignor

4/16/2021

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
/Steven Erwin/  
Steven C. Erwin, Assignor

Date: 04/22/2021

Signature: Kerry L. Broome  
Kerry L. Broome  
Associate Counsel, IP  
Naval Research Laboratory;  
Authorized Representative for  
Assignee, The Government of the  
United States of America

## ASSIGNMENT BY INVENTOR

**THIS ASSIGNMENT**, made by Sarah F. Brittman, residing in Washington, DC (hereinafter referred to as Assignor);

**WHEREAS**, Assignor has invented certain new and useful improvements in **Synthesis of  $\text{Cu}_{2-x}\text{S}/\text{PbS}$  Core/Shell Nanocrystals**, set forth in U.S. Provisional Patent Application No. **63/014,801** filed on April 24, 2020, and in  **$\text{Cu}_{2-x}\text{S}/\text{PbS}$  Core/Shell Nanocrystals**, set forth in an Application for Letters Patent of the United States filed concurrently herewith (the “Inventions”); and

**WHEREAS**, The Government of the United States of America, as represented by the Secretary of the Navy, a Federal Agency (hereinafter referred to as the Government), is desirous of acquiring the entire right, title and interest in and to the Invention, and in and to any applications for Letters Patent to be obtained therefor and thereon in the United States and worldwide (the “Patent Applications”), and in and to any Letters Patent on the Invention granted from the Patent Applications, including all regional patents such those from the European patent organization and all Patent Cooperation Treaty member states;

**WHEREAS**, by acquiring the Assignor’s entire right, title, and interest in and to the invention the Government will be enabled to license the invention and share the income from the licensing with Assignor as allowed by law; and

**WHEREAS**, Assignor has certain rights in the invention under the Naval Research Laboratory Postdoctoral Fellow Program administered by the National Research Council;

**NOW, THEREFORE**, in consideration of the premises and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor hereby assigns, transfers, and sets over unto the Government, its successors, legal representatives, and assigns, their entire right, title, and interest in and to the Invention and the Patent Applications in and to any and all direct and indirect divisions, continuations, and continuations-in-part of the Patent Applications; in and to any and all Letters Patent in the United States and worldwide which may be granted therefor and thereon; in and to any and all reissues, reexaminations, and extensions of said Letters Patent; and in and to all rights under the International Convention

for the Protection of Industrial Property, the same to be held and enjoyed by the Government for its own use and benefit and the use and benefit of its successors, legal representatives, and assigns. This assignment, grant, and transfer is made for and until 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 Assignor had this assignment not been made. This assignment is made nunc pro tunc.

**AND** for the same consideration, Assignor hereby represents and warrants to the Government, 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 the Government under law or that have already been transferred to the Government, Assignor is the sole and lawful owners of the Assignor's entire right, title, and interest in and to the above-mentioned inventions and application(s) for Letters Patent; that such rights, titles, and/or interest in the above-mentioned inventions and application(s) for Letters Patent are unencumbered; and that Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignor hereby covenants and agrees to and with the Government, its successors, legal representatives, and assigns that Assignor 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 the Invention worldwide, without charge to the Government, its successors, legal representatives, and assigns, whenever counsel of the Government, or counsel of its successors, legal representatives, and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application(s) for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is lawful and desirable; or that any division, continuation, or continuation-in-part of any application(s) for Letters Patent or any reissue, reexamination, or extension of any Letters Patent to be obtained thereon is lawful and desirable.

**AND** Assignor hereby requests the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to the Government as Assignee of the Invention and the

Letters Patent to be issued thereon for the sole use and benefit of the Government, its successors, legal representatives, and assigns.

**AND** Assignor hereby also grants unto the Government the right to claim priority to the application(s) identified above.

**AND** Assignor hereby further agrees to make, execute, and deliver to the Government, any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of any Patent Application; any continuation, division, or substitution of any Patent Application; or any application for reissue or extension of any Letters Patent on the Inventions, and further agrees to assist the Government in every way in protecting the invention as may be requested, provided that any expense arising through such efforts will be paid by the Government.

**AND** Assignor hereby appoints all practitioners at Customer Number 26384, all of US Naval Research Laboratory, 4555 Overlook Ave, SW, Code 1008.2, Washington, DC 20375, jointly, and each of them severally, as our attorneys at law/patent agent(s), with full power of substitution, delegation and revocation, to prosecute the Patent Applications, to make alterations and amendments therein, and to transact all business in the U. S. Patent and Trademark Office connected therewith and in all other Patent Cooperation Treaty member states with respect to any and all Letters Patent which may be granted therefor and thereon, and with respect to any and all 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 the Government.

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16 April 2021

Date: \_\_\_\_\_

/Sarah Brittman/

Signature: \_\_\_\_\_

Sarah F. Brittman, Assignor

Date: 04/22/2021

Signature: Kerry L. Broome

Kerry L. Broome  
Associate Counsel, IP  
Naval Research Laboratory;  
Authorized Representative for  
Assignee, The Government of the  
United States of America



## ASSIGNMENT BY INVENTOR

**THIS ASSIGNMENT**, made by Patrick Y. Yee, residing in Washington, DC (hereinafter referred to as Assignor);

**WHEREAS**, Assignor has invented certain new and useful improvements in **Synthesis of  $\text{Cu}_{2-x}\text{S}/\text{PbS}$  Core/Shell Nanocrystals**, set forth in U.S. Provisional Patent Application No. **63/014,801** filed on April 24, 2020, and in  **$\text{Cu}_{2-x}\text{S}/\text{PbS}$  Core/Shell Nanocrystals**, set forth in an Application for Letters Patent of the United States filed concurrently herewith (the “Inventions”); and

**WHEREAS**, The Government of the United States of America, as represented by the Secretary of the Navy, a Federal Agency (hereinafter referred to as the Government), is desirous of acquiring the entire right, title and interest in and to the Invention, and in and to any applications for Letters Patent to be obtained therefor and thereon in the United States and worldwide (the “Patent Applications”), and in and to any Letters Patent on the Invention granted from the Patent Applications, including all regional patents such those from the European patent organization and all Patent Cooperation Treaty member states;

**WHEREAS**, by acquiring the Assignor’s entire right, title, and interest in and to the invention the Government will be enabled to license the invention and share the income from the licensing with Assignor as allowed by law; and

**WHEREAS**, Assignor has certain rights in the invention under the Naval Research Laboratory Postdoctoral Fellow Program administered by the National Research Council;

**NOW, THEREFORE**, in consideration of the premises and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor hereby assigns, transfers, and sets over unto the Government, its successors, legal representatives, and assigns, their entire right, title, and interest in and to the Invention and the Patent Applications in and to any and all direct and indirect divisions, continuations, and continuations-in-part of the Patent Applications; in and to any and all Letters Patent in the United States and worldwide which may be granted therefor and thereon; in and to any and all reissues, reexaminations, and extensions of said Letters Patent; and in and to all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Government for its own use and benefit and the use and benefit of its successors, legal representatives, and

assigns. This assignment, grant, and transfer is made for and until 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 Assignor had this assignment not been made. This assignment is made nunc pro tunc.

**AND** for the same consideration, Assignor hereby represents and warrants to the Government, 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 the Government under law or that have already been transferred to the Government, Assignor is the sole and lawful owners of the Assignor's entire right, title, and interest in and to the above-mentioned inventions and application(s) for Letters Patent; that such rights, titles, and/or interest in the above-mentioned inventions and application(s) for Letters Patent are unencumbered; and that Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignor hereby covenants and agrees to and with the Government, its successors, legal representatives, and assigns that Assignor 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 the Invention worldwide, without charge to the Government, its successors, legal representatives, and assigns, whenever counsel of the Government, or counsel of its successors, legal representatives, and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application(s) for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is lawful and desirable; or that any division, continuation, or continuation-in-part of any application(s) for Letters Patent or any reissue, reexamination, or extension of any Letters Patent to be obtained thereon is lawful and desirable.

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**AND** Assignor hereby appoints all practitioners at Customer Number 26384, all of US Naval Research Laboratory, 4555 Overlook Ave, SW, Code 1008.2, Washington, DC 20375, jointly, and each of them severally, as our attorneys at law/patent agent(s), with full power of substitution, delegation and revocation, to prosecute the Patent Applications, to make alterations and amendments therein, and to transact all business in the U. S. Patent and Trademark Office connected therewith and in all other Patent Cooperation Treaty member states with respect to any and all Letters Patent which may be granted therefor and thereon, and with respect to any and all 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 the Government.

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April 15, 2021

Date: \_\_\_\_\_ Signature: Patrick Y. Yee  
Patrick Y. Yee, Assignor

Date: 04/22/2021

Signature: Kerry L. Broome

Kerry L. Broome  
Associate Counsel, IP  
Naval Research Laboratory;  
Authorized Representative for  
Assignee, The Government of the  
United States of America