

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

Assignment ID: PATI490778

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Lianhua QU	01/16/2020
Hunaid NULWALA	01/21/2020
RECEIVING PARTY DATA	
Company Name:	CRYSTALPLEX CORPORATION
Street Address:	2403 Sidney Street, Suite 270
City:	Pittsburgh
State/Country:	PENNSYLVANIA
Postal Code:	15203
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	18384521
CORRESPONDENCE DATA	
Fax Number:	
<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>	
Phone:	6508152630
Email:	ksiersema@sheppardmullin.com,svpatents@sheppardmullin.com
Correspondent Name:	KRYSTLE SIERSEMA
Address Line 1:	SHEPPARD MULLIN RICHTER & HAMPTON LLP
Address Line 2:	1540 EL CAMINO REAL, SUITE 120
Address Line 4:	MENLO PARK, CALIFORNIA 94025
ATTORNEY DOCKET NUMBER:	63CF-000930US-379397
NAME OF SUBMITTER:	Mrs. Krystle Mestressat
SIGNATURE:	Mrs. Krystle Mestressat
DATE SIGNED:	09/12/2024
Total Attachments: 10	
source=63CF-000930US-379397 Assignment Inventor to Crystalplex#page1.tiff	
source=63CF-000930US-379397 Assignment Inventor to Crystalplex#page2.tiff	
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source=63CF-000930US-379397 Assignment Inventor to Crystalplex#page9.tiff
source=63CF-000930US-379397 Assignment Inventor to Crystalplex#page10.tiff

ASSIGNMENT

WHEREAS, I, HUNAID NULWALA (hereinafter "Assignor"), am an inventor of a certain new and useful invention(s) as set forth and disclosed in the patent application(s) listed in **Schedule A** attached hereto (hereinafter the "Invention");

WHEREAS, CRYSTALPLEX CORPORATION, having an address of 2403 Sidney Street, Suite 270, Pittsburgh, PA 15203 (hereinafter "Assignee"), wishes to acquire Assignor's entire right, title and interest in and to said Invention and in and to any and all Letters Patent that may be obtained therefor in the United States and any and all foreign countries;

WHEREAS, Assignor previously conveyed to Assignee all of Assignor's right, title, and interest in the Invention as described in such prior-filed application(s) pursuant to an assignment dated September 7, 2016 which has been recorded at the U.S. Patent and Trademark Office at Reel 039819 and Frame 0140 (hereinafter, "Assignment Agreement");

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, at least as of November 19, 2018 the parties agree as follows.

Assignor, does hereby confirm Assignor's previous assignment, including pursuant to the Assignment Agreement, and does hereby sell, assign, transfer and set over unto Assignee, its legal representatives, successors, and assigns, Assignor's entire right, title and interest in and to said Invention as set forth in the scheduled application(s), including any applications which claim priority to the scheduled application(s), any application(s) to which the scheduled application(s) claim priority, and any continuations, continuations-in-part, divisions, registrations, reissues, re-examinations or extensions thereof, whether in the U.S. or any foreign country, and in and to any and all patents of the United States and foreign countries which may be issued for said Invention.

Assignor does hereby sell, assign, transfer and set over unto Assignee, its legal representatives, successors, and assigns all rights to claim priority from the Invention and scheduled application(s); all causes of action and remedies related to the Invention and scheduled application(s) (including, without limitation, the right to sue for past, present, or future infringement, misappropriation or violation of rights related to any of the foregoing and the right to collect royalties and other payments under or on account of any of the foregoing); and any and all other rights and interests arising out of, in connection with, or in relation to the Invention and scheduled application(s).

Assignor shall not execute any writing or do any act whatsoever conflicting with the terms and conditions of this Assignment. Assignor will, at any time upon request, without further or additional consideration, but at the expense of Assignee, execute such additional assignments and other writings and do such additional acts as Assignee may deem necessary or desirable to perfect Assignee's enjoyment of this grant, and render all necessary assistance in making the application for or obtaining original patents or applications, continuations, continuations-in-part, divisions, registrations, reissues, re-examinations or extensions thereof, whether in the U.S. or any foreign country, for said Invention, and in enforcing any rights or

chooses in action accruing as a result of such applications or patents, by giving testimony in any and all proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind and inure to the benefit of the assigns and legal representatives of Assignor and Assignee.

The undersigned hereby grant(s) the firm of PEPPER HAMILTON LLP the power to insert on this Assignment any further identification, including the country, application number, filing date and/or title, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other patent office for recordation of this document.

The undersigned requests that any patents that may be issued for said Invention be issued to Assignee, its legal representatives, successors or assigns, as an owner of Assignor's entire right, title and interest in and to said patent and the Invention covered thereby.

Date: Jan-21st 2020Assignor: 
HUNAID NULWALAACKNOWLEDGMENTSTATE OF Pennsylvania)
COUNTY OF Allegheny) SS:

On this 21st day of January, 2020, before me, the undersigned Notary Public, personally appeared HUNAID NULWALA, to me known (or satisfactorily proven) to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

Notary Public My commission expires 12/17/2021

Commonwealth of Pennsylvania – Notary Seal
RACHEL L KOPPER – Notary Public
Allegheny County
My Commission Expires Dec 17, 2021
Commission Number 1253504

Agreed and accepted:

CRYSTALPLEX CORPORATION

Date: 1-21-2020Assignee: Matt Bootman
By: Matt Bootman
Title: President & COOACKNOWLEDGMENTSTATE OF Pennsylvania)
COUNTY OF Allegheny) SS:

On this 21st day of January, 2020, before me, the undersigned Notary Public, personally appeared Matt Bootman, to me known (or satisfactorily proven) to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

Notary Public

My commission expires

12/17/2021

Commonwealth of Pennsylvania – Notary Seal
RACHEL L KOPPER – Notary Public
Allegheny County
My Commission Expires Dec 17, 2021
Commission Number 1253504

SCHEDULE A

Country	Patent Application No.	Filing Date	Title
US	62/338,915	May 19, 2016	CADMIUM-FREE QUANTUM DOTS
US	62/338,888	May 19, 2016	TUNABLE SEMICONDUCTOR NANOCRYSTALS AND FILMS AND 3-D STRUCTURES CONTAINING THEM
US	62/441,182	December 31, 2016	QUANTUM DOT CONTAINING POLYMER AND METHODS OF MAKING THE SAME
PCT	PCT/US2017/033630	May 19, 2017	CADMIUM-FREE QUANTUM DOTS, TUNABLE QUANTUM DOTS, QUANTUM DOT CONTAINING POLYMER, ARTICLES, FILMS, AND 3D STRUCTURE CONTAINING THEM AND METHODS OF MAKING AND USING THEM
US	16/302,870	November 19, 2018	CADMIUM-FREE QUANTUM DOTS, TUNABLE QUANTUM DOTS, QUANTUM DOT CONTAINING POLYMER, ARTICLES, FILMS, AND 3D STRUCTURE CONTAINING THEM AND METHODS OF MAKING AND USING THEM

ASSIGNMENT

WHEREAS, I, LIANHUA QU (hereinafter "Assignor"), am an inventor of a certain new and useful invention(s) as set forth and disclosed in the patent application(s) listed in **Schedule A** attached hereto (hereinafter the "Invention");

WHEREAS, CRYSTALPLEX CORPORATION, having an address of 2403 Sidney Street, Suite 270, Pittsburgh, PA 15203 (hereinafter "Assignee"), wishes to acquire Assignor's entire right, title and interest in and to said Invention and in and to any and all Letters Patent that may be obtained therefor in the United States and any and all foreign countries;

WHEREAS, Assignor previously conveyed to Assignee all of Assignor's right, title, and interest in the Invention as described in such prior-filed application(s) pursuant to an assignment dated September 7, 2016 which has been recorded at the U.S. Patent and Trademark Office at Reel 039819 and Frame 0140 (hereinafter, "Assignment Agreement");

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, at least as of November 19, 2018 the parties agree as follows.

Assignor, does hereby confirm Assignor's previous assignment, including pursuant to the Assignment Agreement, and does hereby sell, assign, transfer and set over unto Assignee, its legal representatives, successors, and assigns, Assignor's entire right, title and interest in and to said Invention as set forth in the scheduled application(s), including any applications which claim priority to the scheduled application(s), any application(s) to which the scheduled application(s) claim priority, and any continuations, continuations-in-part, divisions, registrations, reissues, re-examinations or extensions thereof, whether in the U.S. or any foreign country, and in and to any and all patents of the United States and foreign countries which may be issued for said Invention.

Assignor does hereby sell, assign, transfer and set over unto Assignee, its legal representatives, successors, and assigns all rights to claim priority from the Invention and scheduled application(s); all causes of action and remedies related to the Invention and scheduled application(s) (including, without limitation, the right to sue for past, present, or future infringement, misappropriation or violation of rights related to any of the foregoing and the right to collect royalties and other payments under or on account of any of the foregoing); and any and all other rights and interests arising out of, in connection with, or in relation to the Invention and scheduled application(s).

Assignor shall not execute any writing or do any act whatsoever conflicting with the terms and conditions of this Assignment. Assignor will, at any time upon request, without further or additional consideration, but at the expense of Assignee, execute such additional assignments and other writings and do such additional acts as Assignee may deem necessary or desirable to perfect Assignee's enjoyment of this grant, and render all necessary assistance in making the application for or obtaining original patents or applications, continuations, continuations-in-part, divisions, registrations, reissues, re-examinations or extensions thereof, whether in the U.S. or any foreign country, for said Invention, and in enforcing any rights or

chooses in action accruing as a result of such applications or patents, by giving testimony in any and all proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind and inure to the benefit of the assigns and legal representatives of Assignor and Assignee.

The undersigned hereby grant(s) the firm of PEPPER HAMILTON LLP the power to insert on this Assignment any further identification, including the country, application number, filing date and/or title, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other patent office for recordation of this document.

The undersigned requests that any patents that may be issued for said Invention be issued to Assignee, its legal representatives, successors or assigns, as an owner of Assignor's entire right, title and interest in and to said patent and the Invention covered thereby.

Date: 1-16-2020Assignor: 

LIANHUA QU

ACKNOWLEDGMENTSTATE OF Pennsylvania)
COUNTY OF Allegheny) SS:

On this 16th day of January, 2020, before me, the undersigned Notary Public, personally appeared LIANHUA QU to me known (or satisfactorily proven) to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

Notary Public My commission expires 12/17/2021

Commonwealth of Pennsylvania - Notary Seal
RACHEL L. KOPPER - Notary Public
Allegheny County
My Commission Expires Dec 17, 2021
Commission Number 1253504

Agreed and accepted:

CRYSTALPLEX CORPORATION

Date: 16 January 2020

Assignee: [Signature]
 By: Thomas Patzinger, Jr.
 Title: CEO

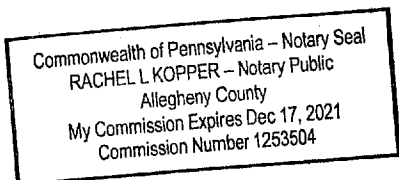
ACKNOWLEDGMENT

STATE OF Pennsylvania)
)
 COUNTY OF Allegheny) SS:

On this 16th day of January, 2020, before me, the undersigned Notary Public, personally appeared Thomas Patzinger Jr., to me known (or satisfactorily proven) to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

SEAL

Notary Public [Signature]
 My commission expires 12/17/2021



SCHEDULE A

Country	Patent Application No.	Filing Date	Title
US	62/338,915	May 19, 2016	CADMIUM-FREE QUANTUM DOTS
US	62/338,888	May 19, 2016	TUNABLE SEMICONDUCTOR NANOCRYSTALS AND FILMS AND 3-D STRUCTURES CONTAINING THEM
US	62/441,182	December 31, 2016	QUANTUM DOT CONTAINING POLYMER AND METHODS OF MAKING THE SAME
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US	16/302,870	November 19, 2018	CADMIUM-FREE QUANTUM DOTS, TUNABLE QUANTUM DOTS, QUANTUM DOT CONTAINING POLYMER, ARTICLES, FILMS, AND 3D STRUCTURE CONTAINING THEM AND METHODS OF MAKING AND USING THEM