

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MATTHEW W. BOOTMAN	07/28/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CRYSTALPLEX CORPORATION
<b>Street Address:</b>	2403 SIDNEY STREET
<b>Internal Address:</b>	SUITE 280
<b>City:</b>	PITTSBURGH
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	15203
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14725658
<b>PCT Number:</b>	US2015033288
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(412)281-0717
<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>	4124545000
<b>Email:</b>	docketingpgh@pepperlaw.com
<b>Correspondent Name:</b>	PEPPER HAMILTON LLP
<b>Address Line 1:</b>	500 GRANT STREET
<b>Address Line 2:</b>	SUITE 5000
<b>Address Line 4:</b>	PITTSBURGH, PENNSYLVANIA 15219-2507
<b>ATTORNEY DOCKET NUMBER:</b>	134597.01401
<b>NAME OF SUBMITTER:</b>	RAYMOND A. MILLER
<b>SIGNATURE:</b>	/Raymond A. Miller/
<b>DATE SIGNED:</b>	09/10/2015
<b>Total Attachments: 4</b>	
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## A S S I G N M E N T

WHEREAS, I, **Matthew W. Bootman** (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 280, Pittsburgh, PA 15203 (hereinafter "Assignee"), is desirous of acquiring Assignor's entire right, title and interest in and to said Invention and in and to any and all Letters Patent of the United States and foreign countries that may be obtained therefor.

WHEREAS, Assignor conveyed to Assignee all of Assignor's right, title, and interest in the Invention pursuant to Assignor's obligations under the Assignment executed on July 28, 2014;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, at least as of July 28, 2014, Assignor does hereby confirm Assignor's previous assignment 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;

AND for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, Assignor does hereby sell, assign, transfer and set over unto Assignee, its legal representatives, successors, and assigns all rights to claim priority rights deriving 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).

UPON SAID CONSIDERATION, Assignor shall not execute any writing or do any act whatsoever conflicting with the terms and conditions of this Assignment, and that Assignor will, at any time upon request, without further or additional consideration, but at the expense of said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect Assignee's enjoyment of this grant, and render all necessary assistance in making 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 choses 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; and

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

Date: 9-1-15


Assignor:   
Matthew W. Bootman

### ACKNOWLEDGMENT

STATE OF Pennsylvania )  
COUNTY OF Allegheny ) SS:

On this 1<sup>st</sup> day of September, 2015, before me, a Notary Public, the undersigned officer, personally appeared Matthew W. 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.

SEAL

Notary Public   
My commission expires 12/17/2017

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL  
RACHEL L KOPPER  
Notary Public

PITTSBURGH CITY, ALLEGHENY CNTY  
My Commission Expires Dec 17, 2017

Agreed and accepted:

Crystalplex Corporation

Date: 9-1-15Assignee: [Signature]  
By: Matt Bootman  
Title: CEO**ACKNOWLEDGMENT**STATE OF Pennsylvania )  
COUNTY OF Allegheny ) SS:

On this 1<sup>st</sup> day of September, 2015, before me, a Notary Public, the undersigned officer, 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 [Signature]  
My commission expires Dec 17, 2017

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL  
RACHEL L KOPPER  
Notary PublicPITTSBURGH CITY, ALLEGHENY CNTY  
My Commission Expires Dec 17, 2017

## SCHEDULE A

Country	Patent Application No.	Filing Date	Title
US	62/004,712	05/29/2014	DISPERSION SYSTEM FOR QUANTUM DOTS
US	14/725,658	05/29/2015	DISPERSION SYSTEM FOR QUANTUM DOTS
WO	PCT/US2015/033288	05/29/2015	DISPERSION SYSTEM FOR QUANTUM DOTS