

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4310512

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JAMES R. GRANDUSKY	04/03/2014
LEO J. SCHOWALTER	04/03/2014
MUHAMMAD JAMIL	04/08/2014
MARK C. MENDRICK	04/03/2014
SHAWN R. GIBB	04/03/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CRYSTAL IS, INC.
<b>Street Address:</b>	70 COHOES AVENUE
<b>City:</b>	GREEN ISLAND
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	12183
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15449044
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)739-3001
<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>	617-951-8525
<b>Email:</b>	patents@morganlewis.com, penny.coelho@morganlewis.com
<b>Correspondent Name:</b>	MATTHEW THOMAS CURRIE
<b>Address Line 1:</b>	MORGAN, LEWIS & BOCKIUS LLP
<b>Address Line 2:</b>	1111 PENNSYLVANIA AVE, N.W.
<b>Address Line 4:</b>	WASHINGTON, D.C. 20004
<b>ATTORNEY DOCKET NUMBER:</b>	CIS-019BC2
<b>NAME OF SUBMITTER:</b>	MATTHEW THOMAS CURRIE
<b>SIGNATURE:</b>	/MATTHEW THOMAS CURRIE/
<b>DATE SIGNED:</b>	03/09/2017
<b>Total Attachments: 7</b>	

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**PATENT APPLICATION**  
**Assignment**

For good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned, co-inventors:

**JAMES R. GRANDUSKY**

**LEO J. SCHOWALTER**

**MUHAMMAD JAMIL**

**MARK C. MENDRICK**

**SHAWN R. GIBB**

Who have created a certain invention for which an application for United States Letters Patent entitled **PSEUDOMORPHIC ELECTRONIC AND OPTOELECTRONIC DEVICES HAVING PLANAR CONTACTS**, was filed at the U.S. Patent and Trademark Office on March 13, 2014 and assigned U.S. Patent Application Serial No. 14/208,379.

Do hereby sell, assign and transfer to **Crystal IS, Inc.**, a corporation having a place of business at 70 Cohoes Avenue, Green Island, New York 12183, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and in and to any and all provisionals, continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possession and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, act, and treaties, including all future conventions, unions, agreements, acts, and treaties;

Agree that **Crystal IS, Inc.**, hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all

applications for patents on said invention in said Assignee, successors, assigns, or legal representatives; and

Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same has herein expressed is possessed by the undersigned.

Assignor hereby grants 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:

Bingham McCutchen LLP

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

IN THE TESTIMONY WHEREOF we have hereunto set our signatures on the date indicated below.

  
JAMES R. GRANDUSKY

Date: 4/3/14

United States of America )  
State of New York ) ss.:  
County of Albany )

On this 3rd day of April, 2014, before me  
personally came JAMES R. GRANDUSKY, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

  
Notary Public

Elena Joy Furciniti, Notary Public  
State of New York, Qualified in Rensselaer County  
Commission Expires December 28, 2017  
Registration # 01FU6139184

  
\_\_\_\_\_  
**LEO J. SCHOWALTER**

Date: 4/3/14

United States of America

State of New York ss.:

County of Albany

On this 3rd day of April, 2014, before me  
personally came **LEO J. SCHOWALTER**, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

  
\_\_\_\_\_  
Notary Public

**Elena Joy Furciniti, Notary Public**  
**State of New York, Qualified in Rensselaer County**  
**Commission Expires December 28, 2017**  
**Registration # 01FU6139184**

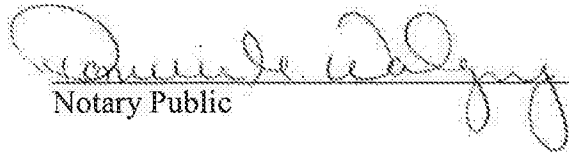


MUHAMMAD JAMIL

Date: 04/08/2014

United States of America )  
State of New York ) ss.:  
County of Schenectady )

On this 8<sup>th</sup> day of April, 2014, before me  
personally came MUHAMMAD JAMIL, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

  
Notary Public

Danielle M. Waligory  
Notary Public, State of New York  
No. 01WA6249860  
Qualified in Schenectady County  
My Commission Expires 10/17/15

Mark C. Mendrick  
MARK C. MENDRICK

Date: 4/9/2014

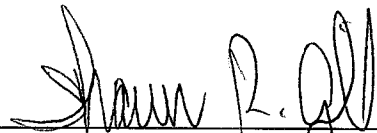
United States of America  
State of New York ) ss.:  
County of Albany )

On this 3rd day of April, 2014, before me  
personally came MARK C. MENDRICK, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

Elena Joy Furtiniti  
Notary Public

Elena Joy Furtiniti, Notary Public  
State of New York, Qualified in Rensselaer County  
Commission Expires December 28, 2017  
Registration # 01FU6139184

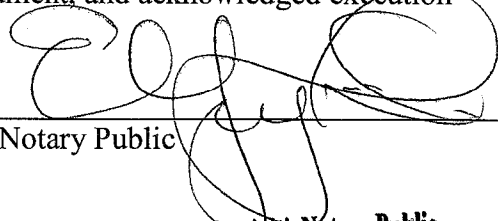


  
\_\_\_\_\_  
**SHAWN R. GIBB**

Date: April 3rd 2014

United States of America  
State of New York ss.:  
County of Albany

On this 3rd day of April, 2014, before me  
personally came **SHAWN R. GIBB**, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

  
\_\_\_\_\_  
Notary Public

**Elena Joy Furciniti, Notary Public**  
**State of New York, Qualified in Rensselaer County**  
**Commission Expires December 28, 2017**  
**Registration # 01FU6139184**