

## 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>
LEO SCHOWALTER	06/21/2006
GLEN A. SLACK	06/22/2006
JUAN CARLOS ROJO	06/22/2006
ROBERT T. BONDOKOV	06/21/2006
KENNETH E. MORGAN	06/21/2006
JOSEPH A. SMART	06/22/2006
<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>
Application Number:	15231141
<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, debra.gilbride@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-002CP3C3
<b>NAME OF SUBMITTER:</b>	MATTHEW T. CURRIE
<b>SIGNATURE:</b>	/Matthew T. Currie/
<b>DATE SIGNED:</b>	04/19/2018

**Total Attachments: 4**

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## JOINT ASSIGNMENT

WHEREAS, we, **Leo J. Schowalter, Glen A. Slack, J. Carlos Rojo, Robert T. Bondokov, Kenneth E. Morgan, and Joseph A. Smart**, have invented one or more inventions described in an application for Letters Patent of the United States entitled:

**METHOD AND APPARATUS FOR PRODUCING LARGE, SINGLE-CRYSTALS OF ALUMINUM NITRIDE**

and identified by

☒ Attorney Docket No. CIS-002CP3, and;

☒ Serial No. 11/431,090 filed in the United States Patent Office on May 9, 2006; and

WHEREAS, **Crystal IS, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of New York, and having a usual place of business at 70 Cohoes Avenue, Green Island, NY 12183, desires to acquire an interest therein, in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application or such Letters Patent, and any right, title and interest we may have in provisional applications to which said application claims priority; said invention(s), applications and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all of our rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, including but not limited to any cause(s) of action and damages accruing prior to this assignment. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all Letters Patent to ASSIGNEE in its own name as assignee of our entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns, and legal representatives, but at its or their expense and charges, including the execution of non-provisional, substitution, continuation, divisional, reissue, reexamination, or corresponding foreign or international patent applications;

AND, we hereby further agree to provide statements or testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

AND, we hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number and filing date into this assignment, if none is indicated on the date of our execution of this assignment;

AND, we hereby authorize and request the Director of the United States Patent and Trademark Office to issue such Letters Patent as shall be granted upon said application, or applications based thereon, to said ASSIGNEE, its successors, assigns, or legal representatives.

**IN TESTIMONY WHEREOF**, we have hereunto set our hands and affixed our seals on the date(s) set forth below.

Inventor:

Leo J. Schowalter  
Leo J. Schowalter

State of NY  
County of Albany

On this 21 day of June, 2006, before me, the undersigned Notary Public, personally appeared Leo J. Schowalter, proved to me through satisfactory evidence of identification, which was/were Personal knowledge, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Shirin Palermo  
Notary Public

SHIRIN PALERMO  
(Seal) NOTARY PUBLIC-STATE OF NEW YORK  
No. 01PA6145416  
Qualified in Rensselaer County  
My Commission Expires May 08, 2010

Inventor:

Glen A. Slack  
Glen A. Slack

State of NY  
County of Albany

On this 22 day of June, 2006, before me, the undersigned Notary Public, personally appeared Glen A. Slack, proved to me through satisfactory evidence of identification, which was/were Personal knowledge, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Shirin Palermo  
Notary Public

(Seal)

SHIRIN PALERMO  
NOTARY PUBLIC-STATE OF NEW YORK  
No. 01PA6145416  
Qualified in Rensselaer County  
My Commission Expires May 08, 2010

Inventor:

  
J. Carlos Rojo

State of NY  
County of Albany

On this 22 day of June, 2006, before me, the undersigned Notary Public, personally appeared **Carlos Rojo**, proved to me through satisfactory evidence of identification, which was/were Personal knowledge, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

  
Notary Public

(Seal)


SHIRIN PALERMO  
NOTARY PUBLIC-STATE OF NEW YORK  
No. 01PA6145416  
Qualified in Rensselaer County  
My Commission Expires May 08, 2010

Inventor:

  
Robert T. Bondokov


State of NY  
County of Albany

On this 21 day of June, 2006, before me, the undersigned Notary Public, personally appeared **Robert T. Bondokov**, proved to me through satisfactory evidence of identification, which was/were Personal knowledge, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

  
Notary Public

SHIRIN PALERMO  
NOTARY PUBLIC-STATE OF NEW YORK  
No. 01PA6145416  
Qualified in Rensselaer County  
My Commission Expires May 08, 2010

Inventor:

  
Kenneth E. Morgan 6/21/06

State of NY  
County of Albany

On this 21 day of June, 2006, before me, the undersigned Notary Public, personally appeared **Kenneth E. Morgan**, proved to me through satisfactory evidence of identification, which was/were Personal knowledge, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

  
Notary Public

(Seal)

SHIRIN PALERMO  
NOTARY PUBLIC-STATE OF NEW YORK  
No. 01PA6145416  
Qualified in Rensselaer County  
My Commission Expires May 08, 2010

Inventor:

Joseph A. Smart  
Joseph A. Smart

State of NY  
County of Albany

On this 22 day of June, 2006, before me, the undersigned Notary Public, personally appeared Joseph A. Smart, proved to me through satisfactory evidence of identification, which was/were Personal knowledge, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Shirin Palermo  
Notary Public

(Seal)

SHIRIN PALERMO  
NOTARY PUBLIC-STATE OF NEW YORK  
No. 01PA6145416  
Qualified in Rensselaer County  
My Commission Expires May 08, 2010