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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| SANDRA B. SCHUJMAN | 08/17/2010 |
| SHAILAJA P. RAO | 08/17/2010 |
| ROBERT T. BONDOKOV | 08/17/2010 |
| LEO J. SCHOWALTER | 08/17/2010 |
| KENNETH E. MORGAN | 07/02/2007 |
| GLEN A. SLACK | 07/02/2007 |
| RECEIVING PARTY DATA | |
| Name: | CRYSTAL IS, INC. |
| Street Address: | 70 COHOES AVENUE |
| City: | GREEN ISLAND |
| State/Country: | NEW YORK |
| Postal Code: | 12183 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14687993 |
| CORRESPONDENCE DATA | |
| Fax Number: | (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> | |
| Phone: | 202.739.3000 |
| Email: | susan.lanney@morganlewis.com |
| Correspondent Name: | MORGAN, LEWIS & BOCKIUS LLP |
| Address Line 1: | 1111 PENNSYLVANIA AVENUE, N.W |
| Address Line 4: | WASHINGTON, D.C. 20004 |
| ATTORNEY DOCKET NUMBER: | CIS-005CPC1 |
| NAME OF SUBMITTER: | SUSAN LANNEY |
| SIGNATURE: | /Susan Lanney/ |
| DATE SIGNED: | 04/25/2015 |
| Total Attachments: 10 | |

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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Sandra B. Schujman; Shailaja P. Rao; Robert T. Bondokov; Kenneth E. Morgan; Glen A. Slack; and Leo J. Schowalter (hereinafter referred to as Assignors), residing at 1317 Roschill Blvd., Niskayuna, New York 12309; 440 New Scotland Avenue, Apt. 1E, Albany, New York 12208; 15 Eastview Drive, Apt. 7, Watervliet, New York 12189; 58 N. Main Street, Castleton, New York; 3442 Ridge Road, Scotia, New York 12302; and 25 Cord Drive, Latham, New York 12110, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in ALUMINUM NITRIDE BULK CRYSTALS HAVING HIGH TRANSPARENCY TO ULTRAVIOLET LIGHT AND METHODS OF FORMING THEM, set forth in a Patent application for Letters Patent of the United States, already filed on June 30, 2010 as U.S. Application No. 12/827,507; and

WHEREAS, Crystal IS, Inc., a corporation organized under and pursuant to the laws of the State of New York, having its principal place of business at 70 Cohoes Avenue, Green Island, New York 12183 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and 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 Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to 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 sale and assignment not been made.

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

AND Assignors hereby grant 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:

GOODWIN PROCTER LLP

All practitioners at Customer Number 051414

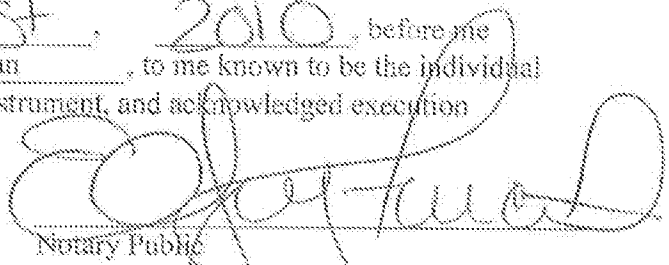
AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.


Sandra B. Schujman

Date: August 17 2010

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

On this 17 day of August, 2010, before me personally came Sandra B. Schujman, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

State Jay C. Capaldi, Notary Public
State of New York, Qualified in Rensselaer County
Commission Expires December 30, 2013
Registration # 018A6139154

Shailaja Rao
Shailaja P. Rao

Date: August 17 2010

United States of America
State of NY } ss.:
County of Albany }

On this 17 day of August, 2010, before me personally came Shailaja P. Rao, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Blaise Jay Furonell, Notary Public
State of New York Qualified in Rensselaer County
Commission Expires December 28, 2012
Registration # 012009120164

[Signature]
Notary Public

[Handwritten Signature]

Robert T. Bondokov

Date: August 17 2010

United States of America

State of

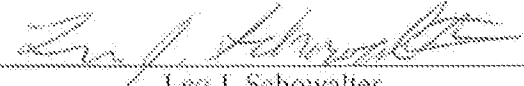
County of

NY) ss.:
Albany)

On this 17 day of August, 2010, before me personally came Robert T. Bondokov, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

[Handwritten Signature]
Notary Public


*Ellen Jay Farnell, Notary Public
State of New York Qualified in Herkimer County
Commission Expires December 28, 2013
Registration # 01288120104*


Leo J. Schowalter

Date: August 17 2010

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

On this 17 day of August, 2010, 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

Leo J. Schowalter, Notary Public
State of New York Qualified in Rensselaer County
Commission Expires December 28, 2013
Registration # 01548120102

ASSIGNMENT

WHEREAS, We, Kenneth E. Morgan, Leo J. Schowalter, and Glen A. Slack, have invented one or more inventions described in an application for Letters Patent of the United States entitled:

METHODS FOR CONTROLLABLE DOPING OF ALUMINUM NITRIDE BULK CRYSTALS

and identified by

Attorney Docket No. CIS-005 and/or executed by us on even date herewith and about to be filed in the United States Patent Office; and

Serial No. 11/731,790 filed in the United States Patent Office on March 30, 2007;

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, New York 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, continuations-in-part, 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 expense and charges, including the execution of non-provisional, substitution, continuation, continuation-in-part, 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 and request the Director of the United States Patent and Trademark Office and the empowered officials of all other governments 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.

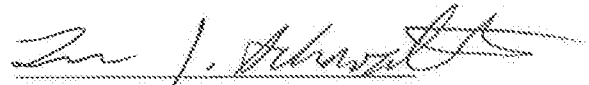
Inventor: 
Kenneth E. Morgan

State of New York)
County of) ss

Subscribed and sworn to before me, by the above-named Kenneth E. Morgan this 2 day of July, 2007.

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



Notary Public
My Commission Expires: _____

Inventor: 
Leo J. Schowalter

State of New York)
County of) ss

Subscribed and sworn to before me, by the above-named Leo J. Schowalter this 2 day of July, 2007.

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


Notary Public
My Commission Expires: _____

