

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
James R. Grandusky	06/09/2010
Leo J. Schowalter	06/09/2010
Shawn R. Gibb	06/09/2010
Joseph A. Smart	05/07/2010
Shiwen Liu	05/12/2010
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:	13298570
CORRESPONDENCE DATA	
Fax Number:	(617)951-8736
Phone:	(617) 951-8293
Email:	nicole.deane@bingham.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	Matthew T. Currie
Address Line 1:	Bingham McCutchen LLP
Address Line 2:	2020 K Street, NW
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20006
ATTORNEY DOCKET NUMBER:	CIS-011CPC1
NAME OF SUBMITTER:	Matthew T. Currie/N.Deane

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PATENT
REEL: 027244 FRAME: 0495

Total Attachments: 8

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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, by James R. Grandusky; Leo J. Schowalter; Shawn R. Gibb; Joseph A. Smart; and Shiwen Liu (hereinafter referred to as Assignors), residing at 22 Suncrest Drive, Waterford, New York 12188; 25 Cord Drive, Latham, New York 12110; 62 Southbury Road, Clifton Park, New York 12065; 358 Blume Road, Mooresville, North Carolina 28117; and 1 Castle Drive, Acton, Massachusetts 01720, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in Thick Pseudomorphic Nitride Epitaxial Layers, set forth in a Patent application for Letters Patent of the United States, already filed on April 21, 2010 as U.S. Application No. 12/764,584; 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.

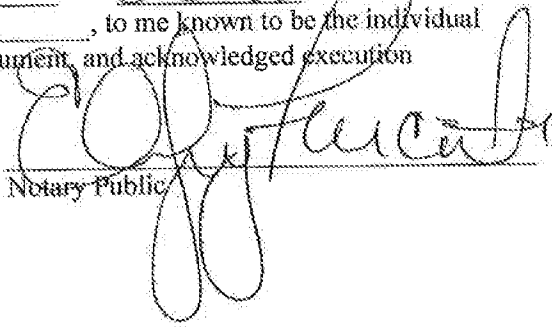

James R. Grandusky

Date: June 9 2010

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

On this 9th day of June, 2010, 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.

Elena Jay Furginelli, Notary Public
State of New York Qualified in Hereditary County
Commission Expires December 28, 2013
Registration # 018A6199764


Notary Public

Leo J. Schowalter
Leo J. Schowalter

Date: June 9th 2010

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

On this 9th day of June, 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.

[Signature]
Notary Public

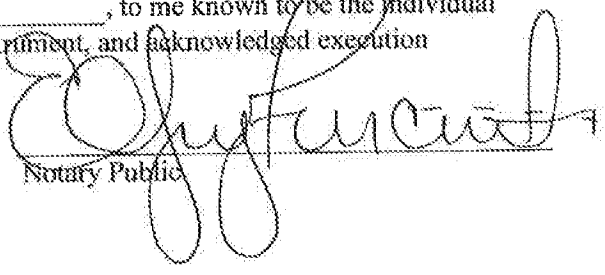
*Elena Joy Furdess, Notary Public
State of New York Qualified in Rensselaer County
Commission Expires December 28, 2013
Registration # 018A8129104*


Shawn R. Gibb

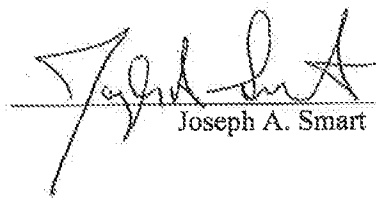
Date: June 9th 2010

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

On this 9th day of June, 2010, 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

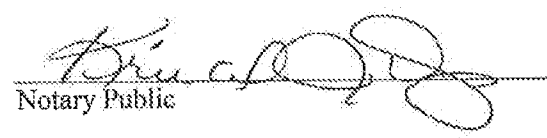
*Elise Jay Fucilli, Notary Public
State of New York Qualified in Rensselaer County
Commission Expires December 28, 2012
Registration # 01288139184*


Joseph A. Smart


Date: May 7, 2010

United States of America)
State of North Carolina) ss.:
County of Tredell)

On this 7 day of May, 2010, before me personally came Joseph A. Smart, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

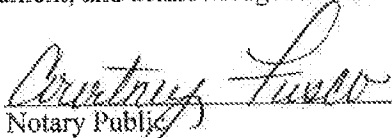
**My Commission Expires:
April 22, 2014**


Shiwen Liu

Date: May 12, 2010

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

On this 12th day of May, 2010, before me personally came Shiwen Liu, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

