

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>STEVE M. AUGUSTINE</td> <td>02/10/2014</td> </tr> <tr> <td>DAVID M. CHAPMAN</td> <td>02/10/2014</td> </tr> <tr> <td>DENNIS F. CLARK</td> <td>02/10/2014</td> </tr> </tbody> </table>		Name	Execution Date	STEVE M. AUGUSTINE	02/10/2014	DAVID M. CHAPMAN	02/10/2014	DENNIS F. CLARK	02/10/2014				
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<table border="1"> <tr> <td>Name:</td> <td>CRISTAL USA INC.</td> </tr> <tr> <td>Street Address:</td> <td>20 WIGHT AVENUE</td> </tr> <tr> <td>Internal Address:</td> <td>SUITE 150</td> </tr> <tr> <td>City:</td> <td>HUNT VALLEY</td> </tr> <tr> <td>State/Country:</td> <td>MARYLAND</td> </tr> <tr> <td>Postal Code:</td> <td>21030</td> </tr> </table>		Name:	CRISTAL USA INC.	Street Address:	20 WIGHT AVENUE	Internal Address:	SUITE 150	City:	HUNT VALLEY	State/Country:	MARYLAND	Postal Code:	21030
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CORRESPONDENCE DATA													
<p>Fax Number:</p> <p>Email: nydocket@gtlaw.com</p> <p><i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i></p> <p>Correspondent Name: GREENBERG TRAURIG, LLP</p> <p>Address Line 1: MET LIFE BUILDING</p> <p>Address Line 2: 200 PARK AVENUE</p> <p>Address Line 4: NEW YORK, NEW YORK 10166</p>													
ATTORNEY DOCKET NUMBER:	142580.010301												
NAME OF SUBMITTER:	JUDI CORDO												
Signature:	/Judi Cordo/												

Date:

02/20/2014

Total Attachments: 3

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ASSIGNMENT

WHEREAS, we,

1. Steve M. Augustine, a citizen of the United States, residing at 4380 Doncaster Drive, Ellicott City, MD 21043; and

2. David M. Chapman, a citizen of the United States, residing at 10327 Pine Ridge Drive, Ellicott City, MD 21042; and

3. Dennis F. Clark, a citizen of the United States, residing at 1917 Old Frederick Road, Catonsville, MD 21228

are the inventors of the invention described in

**CATALYST SUPPORT MATERIALS, CATALYSTS, METHODS OF MAKING THEM
AND USES THEREOF**

for which we have executed an application for a Patent of the United States

☐ which was filed herewith

☒ which was filed on August 23, 2013 as U.S. Patent Application No. 13/975,073

WHEREAS, Cristal USA Inc., a Delaware corporation having an office for the transaction of business at 20 WIGHT AVENUE, SUITE 150, HUNT VALLEY, MD 21030, ASSIGNEE, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals, continuations, and continuations-in-part thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of the instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

Date: 2/20/14

Signed: 
Steve M. Augustine

STATE OF Maryland)
COUNTY OF Baltimore) ss.:

On Feb 10, 2014, before me personally appeared Steve M. Augustine, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Notary Public

TERESA B. SZCZEPANSKI
NOTARY PUBLIC
BALTIMORE COUNTY
MARYLAND
MY COMMISSION EXPIRES APRIL 7, 2014

Date: Feb. 10, 2014

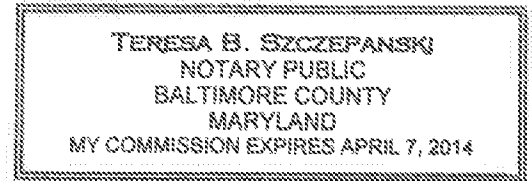
Signed: David M. Chapman
David M. Chapman

STATE OF Maryland)
) SS.:
COUNTY OF Baltimore)

On Feb. 10, 2014, before me personally appeared David M. Chapman, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Teresa B. Szczepanski
Notary Public



Date: 02/10/2014

Signed: Dennis F. Clark
Dennis F. Clark

STATE OF Maryland)
) SS.:
COUNTY OF Baltimore)

On Feb. 10, 2014, before me personally appeared Dennis F. Clark, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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