

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>MICHAEL J. BOWERS</td> <td>06/28/2013</td> </tr> <tr> <td>JAMES R. MCBRIDE</td> <td>10/02/2013</td> </tr> <tr> <td>SANDRA J. ROSANTHAL</td> <td>10/02/2013</td> </tr> </tbody> </table>		Name	Execution Date	MICHAEL J. BOWERS	06/28/2013	JAMES R. MCBRIDE	10/02/2013	SANDRA J. ROSANTHAL	10/02/2013
Name	Execution Date								
MICHAEL J. BOWERS	06/28/2013								
JAMES R. MCBRIDE	10/02/2013								
SANDRA J. ROSANTHAL	10/02/2013								
RECEIVING PARTY DATA									
Name:	VANDERBILT UNIVERSITY								
Street Address:	305 KIRKLAND HALL								
Internal Address:	2201 WEST END AVENUE								
City:	NASHVILLE								
State/Country:	TENNESSEE								
Postal Code:	37240								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13679924</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13679924				
Property Type	Number								
Application Number:	13679924								
CORRESPONDENCE DATA									
Fax Number:	(678)420-9301								
Phone:	(678)420-9300								
Email:	oglesd@ballardspahr.com								
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>									
Correspondent Name:	D. BRIAN SHORTELL								
Address Line 1:	999 PEACHTREE STREET								
Address Line 2:	SUITE 1000								
Address Line 4:	ATLANTA, GEORGIA 30309								
NAME OF SUBMITTER:	D. BRIAN SHORTELL, J.D., PH.D.								
Signature:	/D. Brian Shortell/								

Date:

01/03/2014

Total Attachments: 4

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ASSIGNMENT

WHEREAS, we, **MICHAEL J. BOWERS, II, JAMES R. MCBRIDE, AND SANDRA J. ROSANTHAL**, of **5603 ELELE COURT, SYKESVILLE, MARYLAND 21784, 1513 HAMDEN DRIVE, NASHVILLE, TENNESSEE 37211**, and **1205 DAVIDSON ROAD, NASHVILLE, TENNESSEE 37205**, respectively, have invented new and useful improvements in “**BROAD-EMISSION NANOCRYSTALS AND METHODS OF MAKING AND USING SAME**,” for which a United States Patent Application was filed on **NOVEMBER 16, 2012**, and assigned Application No. **13/679,924**; and

WHEREAS, **VANDERBILT UNIVERSITY**, whose Post Office address is **305 KIRKLAND HALL, 2201 WEST END AVENUE, NASHVILLE, TENNESSEE 37240, USA**, is desirous of acquiring the entire interest in the same;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, **MICHAEL J. BOWERS, II, JAMES R. MCBRIDE, AND SANDRA J. ROSANTHAL**, hereby do sell, assign and transfer unto said **VANDERBILT UNIVERSITY** the entire right, title and interest in and to said invention and application throughout the world, including, without limitation, any Letters Patent which may issue thereon, and any subsequent application claiming priority to the above-identified application, reissue, reexamination, divisional, continuation-in-part, extension or continuation thereof and all rights of priority under the Paris Convention arising from said application; the same for **VANDERBILT UNIVERSITY’S** legal representatives and assigns, as fully and entirely as the same would have been held by us had this assignment and sale not been made;

AND, we hereby bind ourselves, our heirs, legal representatives, administrators and assigns properly to execute without further consideration any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby made or intended to be made and generally do everything possible to aid VANDERBILT UNIVERSITY, its legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries throughout the world.

IN WITNESS WHEREOF, I have executed this Assignment this 28 day of June, 2013.

Michael J Bowers II (L.S.)
MICHAEL J. BOWERS, II

State of Maryland


County of Howard

On this 28 day of June, 2013, before me, a Notary Public came MICHAEL J. BOWERS, II, to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

Christopher Shone Badurdek
Notary Public

Christopher Shone Badurdek
My Commission Expires: _____

IN WITNESS WHEREOF, I have executed this Assignment this 2 day of OCTOBER, 2013.

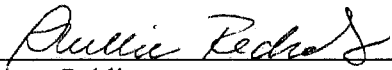


JAMES R. MCBRIDE (L.S.)

State of TN

County of DAVIDSON

On this 2 day of OCTOBER, 2013, before me, a Notary Public came JAMES R. MCBRIDE, to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.



Notary Public

My Commission Expires: _____

IN WITNESS WHEREOF, I have executed this Assignment this 2nd day of October, 2013.

S. J. Rosenthal (L.S.)
SANDRA J. ROSANTHAL

State of Tennessee

County of Davidson

On this _____ day of _____, 2013, before me, a Notary Public came SANDRA J. ROSANTHAL, to me known and known to be the individual described in and who executed the foregoing assignment, and she duly acknowledged the same to be her free act and deed.

Shellic Reda
Notary Public

My Commission Expires: _____