

12/09/2011



103637752

To the Director of the U.S. Patent and Trademark Office

documents or the new address(es) below.

1. Name of conveying party(ies)Steven M. Risser Feb 24, 2011
Vincent D. McGinniss Feb 25 2011
David W. Nippa Feb 24 2011
Paul Edward Burrows May 3 2011
Asanga B. Padmaperuma Feb 23 2011Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No**3. Nature of conveyance/Execution Date(s):**Execution Date(s) 2/24/11, 2/25/11, 5/3/11, 2/23/11, 4/5/11

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)Name: Battelle Memorial Institute

Internal Address: _____

Street Address: 505 King AvenueCity: ColumbusState: OhioCountry: USA Zip: 43201Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**☐ This document is being filed together with a new application.

A. Patent Application No.(s)

13/060,038

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Terri LombardiInternal Address: Battelle Memorial InstituteStreet Address: 505 King AvenueCity: ColumbusState: OH Zip: 43201Phone Number: 614 424 6197Fax Number: 614 424 3864Email Address: lombardt@battelle.org**6. Total number of applications and patents involved:** 1**7. Total fee (37 CFR 1.21(h) & 3.41) \$** _____

- ☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment InformationDeposit Account Number 50-1749Authorized User Name Frank Rosenberg**9. Signature:**

/Frank Rosenberg/

Signature

November 30, 2011

Date

Frank Rosenberg

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

12

Sambhu N. Kundu Apr 5, 2011

ASSIGNMENT

Steven M. Risser
 Vincent D. McGinniss
 David W. Nippa
 Paul Edwards Burrows
 Asanga B. Padmaperuma
 Sambhu N. Kundu

to
 Battelle Memorial Institute

WHEREAS we, Steven M. Risser, of Reynoldsburg, in the County of Licking, and State of Ohio, Vincent D. McGinniss, of Columbus, in the County of Franklin, and State of Ohio, David W. Nippa, of Dublin, in the County of Franklin, and State of Ohio, Paul Edwards Burrows, of Chattaroy, in the County of ~~SPOKANE~~, and State of Washington, Asanga B. Padmaperuma, of Richland, in the County of Benton, and State of Washington, and Sambhu N. Kundu, of Richland, in the County of Benton, and State of Washington have made certain inventions for which Patent Applications, US and International, were filed as follows:

Type	Application Number	Date Filed	Title
US Provisional Application	61/090,191	8/19/2008	Organic-Inorganic Complexes Containing a Phosphor Nanocluster and an Antenna Ligand
US Provisional Application	61/145,515	1/16/2009	Organic-Inorganic Complexes Containing a Phosphor Nanocluster and an Antenna Ligand
US Provisional Application	61/184,197	6/4/2009	Solar Cells with a Luminescent Layer
PCT International Application	PCT/US2009/054371	8/19/2009	Organic-Inorganic Complexes Containing a Luminescent Rare earth-Metal Nanocluster and an Antenna Ligand, Luminescent Articles, and Methods of Making Luminescent Compositions
US National Stage	13/060,038	2/21/2011	Organic-Inorganic Complexes Containing a Luminescent Rare earth-Metal Nanocluster and an Antenna Ligand, Luminescent Articles, and Methods of Making Luminescent Compositions

And

WHEREAS, Battelle Memorial Institute, a corporation of Ohio, having a place of business at 505 King Avenue, Columbus, Ohio, herein called "ASSIGNEE", is desirous of acquiring our entire right, title, and interest in said inventions and applications therefor, and in any patent or patents to be obtained therefor;

ASSIGNMENT

Steven M. Risser
Vincent D. McGinniss
David W. Nippa
Paul Edwards Burrows
Asanga B. Padmaperuma
Sambhu N. Kundu

to
Battelle Memorial Institute

NOW, THEREFORE, To All Whom It May Concern, be it known that, for and in consideration of the sum of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto the said Assignee, our entire right, title, and interest in and to the inventions shown, described, or claimed therein, and the full and exclusive right and title to the said applications executed by us, preparatory to obtaining Letters Patent of the United States and in all foreign countries therefor; and in and to any extensions, reissues, divisions, or renewals thereof; and we do hereby authorize and request the Commissioner of Patents or other proper Officer, to issue such Letters Patent, or any of them, to the said Assignee, as the assignee of our entire right, title, and interest in and to the same for the sole use and behoof of the said Assignee, and its successors or assigns.

And we further covenant and agree that we will, at the request and expense of the said Assignee, execute such other and further assurances of title as may be necessary or proper to fully convey the interest herein sought to be conveyed; that we will, at the request and expense of the said Assignee, execute such application papers as may be desired by the said Assignee for the filing of any division or renewal of the applications herein conveyed, or for the reissues or extensions of any Letters Patent that may be granted upon said applications, and will execute such Supplemental Oaths and Preliminary Statements, or other papers as desired by the said Assignee.

And we further assign unto the said Assignee our whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Assignee to apply for patents therefor in its own name in countries where such procedure is proper and to claim the benefit of the International Convention and do agree to execute applications for the said invention in the several countries where it is necessary that the same be executed by the inventors, and to execute assignments of such applications and the patents to be obtained therefor to the said assignee, as well as all other necessary papers.

ASSIGNMENT

Steven M. Risser
 Vincent D. McGinniss
 David W. Nippa
 Paul Edwards Burrows
 Asanga B. Padmaperuma
 Sambhu N. Kundu

to
 Battelle Memorial Institute

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Columbus, Ohio
 this 24 day of February, 2011.

Steven M. Risser
 Steven M. Risser

STATE OF OHIO)
 ss
 COUNTY OF FRANKLIN)

This 24th day of February, 2011, before me, a Notary Public in and for the County
 aforesaid, personally appeared Steven M. Risser, personally known to me and known to be the
 person described in and who executed the foregoing assignment and acknowledged the same to be
 his voluntary act and deed, and that he executed the same for the uses and purposes therein set
 forth.

Theresa M. Lombardi
 Notary Public

(SEAL)



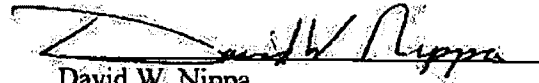
Theresa M. Lombardi
 Notary Public, State of Ohio
 My Commission Expires 01-13-2016

ASSIGNMENT

Steven M. Risser
Vincent D. McGinniss
David W. Nippa
Paul Edwards Burrows
Asanga B. Padmaperuma
Sambhu N. Kundu

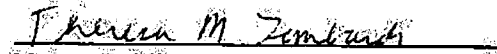
to
Battelle Memorial Institute

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Columbus, Ohio
this 24th day of February, 2011.


David W. Nippa

STATE OF OHIO)
 ss
COUNTY OF FRANKLIN)

This 24th day of February, 2011, before me, a Notary Public in and for the County
aforesaid, personally appeared David W. Nippa, personally known to me and known to be the
person described in and who executed the foregoing assignment and acknowledged the same to be
his voluntary act and deed, and that he executed the same for the uses and purposes therein set
forth.


Notary Public

(SEAL)



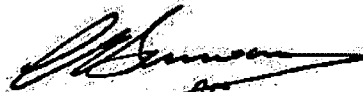
Theresa M. Lombardi
Notary Public, State of Ohio
My Commission Expires 01-13-2016

ASSIGNMENT

Steven M. Risser
 Vincent D. McGinniss
 David W. Nippa
 Paul Edwards Burrows
 Asanga B. Padmaperuma
 Sambhu N. Kundu

to
 Battelle Memorial Institute

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at BUNGE,
05 this 31 day of MAY, 2011.


 Paul Edwards Burrows

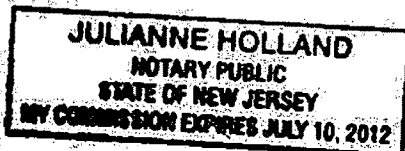
STATE OF New Jersey)
)
 COUNTY OF Mercer)
)
 SS

OK
5/3/11

This 3 day of May, 2011, before me, a Notary Public in and for the County
 aforesaid, personally appeared Paul Edwards Burrows, personally known to me and known to be
 the person described in and who executed the foregoing assignment and acknowledged the same to
 be his voluntary act and deed, and that he executed the same for the uses and purposes therein set
 forth.

OK
5/3/11


 Notary Public



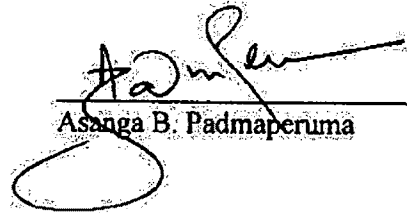
(SEAL)

ASSIGNMENT

Steven M. Risser
 Vincent D. McGinniss
 David W. Nippa
 Paul Edwards Burrows
 Asanga B. Padmaperuma
 Sambhu N. Kundu

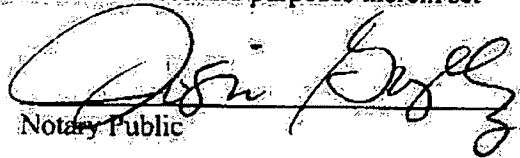
to
 Battelle Memorial Institute

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Nielsen
WA this 23rd day of February, 2011.


 Asanga B. Padmaperuma

STATE OF Washington,
 COUNTY OF Spokane SS

This 23rd day of February, 2011, before me, a Notary Public in and for the County
 aforesaid, personally appeared Asanga B. Padmaperuma, personally known to me and known to be
 the person described in and who executed the foregoing assignment and acknowledged the same to
 be his voluntary act and deed, and that he executed the same for the uses and purposes therein set
 forth.


 Notary Public

(SEAL)



ASSIGNMENT

Steven M. Risser
 Vincent D. McGinniss
 David W. Nippa
 Paul Edwards Burrows
 Asanga B. Padmaperuma
 Sambhu N. Kundu

to
 Battelle Memorial Institute

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at San Jose,
California this 5th day of April, 2011.

Sambhu Kundu
 Sambhu N. Kundu

STATE OF California)
 COUNTY OF Santa Clara)^{SS}

This 5th day of April, 2011, before me, a Notary Public in and for the County of Santa Clara,
 aforesaid, personally appeared Sambhu N. Kundu, person known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be
his voluntary act and deed, and that he executed the same for the uses and purposes therein set
forth.

Bernadet Elishapour
 Notary Public

(SEAL)



CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

State of California

County of Santa Clara

On 5th day of April 2011 before me, Bernadet Elishapour 'Notary Public'

personally appeared: Sambhu N. Kundu



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Place Notary Seal Above

Signature: Bernadet Elishapour

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Declaration for utility or Design
Document Date: 08/11/2011 Number of Pages: 3

Signer(s) Other Than Named Above: N/A

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- ☐ Corporate Officer — Title(s): _____
- ☐ Individual
- ☐ Partner — ☐ Limited ☐ General
- ☐ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer's Name: _____

- ☐ Corporate Officer — Title(s): _____
- ☐ Individual
- ☐ Partner — ☐ Limited ☐ General
- ☐ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other: _____

Signer Is Representing: _____

RIGHT THUMBPRINT OF SIGNER
Top of thumb here