

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Fernando PALACIO</td> <td>01/27/2012</td> </tr> <tr> <td>Angel MILLAN ESCOLANO</td> <td>01/27/2012</td> </tr> <tr> <td>Nuno Joan OLIVEIRA SILVA</td> <td>01/13/2012</td> </tr> <tr> <td>Luis Antonio DIAS CARLOS</td> <td>01/13/2012</td> </tr> <tr> <td>Vitor AMARAL</td> <td>01/18/2012</td> </tr> <tr> <td>Patricia LIMA</td> <td>01/13/2012</td> </tr> <tr> <td>Carlo BRITES</td> <td>01/17/2012</td> </tr> </tbody> </table>		Name	Execution Date	Fernando PALACIO	01/27/2012	Angel MILLAN ESCOLANO	01/27/2012	Nuno Joan OLIVEIRA SILVA	01/13/2012	Luis Antonio DIAS CARLOS	01/13/2012	Vitor AMARAL	01/18/2012	Patricia LIMA	01/13/2012	Carlo BRITES	01/17/2012
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<table border="1"> <tr> <td>Name:</td> <td>CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC)</td> </tr> <tr> <td>Street Address:</td> <td>C/ Serrano, 117</td> </tr> <tr> <td>City:</td> <td>Madrid</td> </tr> <tr> <td>State/Country:</td> <td>SPAIN</td> </tr> <tr> <td>Postal Code:</td> <td>28006</td> </tr> </table>		Name:	CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC)	Street Address:	C/ Serrano, 117	City:	Madrid	State/Country:	SPAIN	Postal Code:	28006						
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PROPERTY NUMBERS Total: 1																	
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Application Number:	13380671																
CORRESPONDENCE DATA																	
Fax Number:	(212)931-8521																
Phone:	212 509 8800																
Email:	info@byrnepoh.com																

CH \$40.00 13380671

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.*

Correspondent Name: Byrne Poh LLP  
Address Line 1: 11 Broadway, Ste 814  
Address Line 4: New York, NEW YORK 10004

ATTORNEY DOCKET NUMBER:	1615140.139-US1
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NAME OF SUBMITTER:	Nina R. Horan
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App. No.: 13/38,0671  
Filed: 12/23/2011

### ASSIGNMENT

WHEREAS, we, Fernando PALACIO, Ángel MILLÁN ESCOLANO, Nuno Joan OLIVEIRA SILVA, Luis Antonio DIAS CARLOS, Vitor AMARAL, Patricia LIMA and Carlos BRITES (collectively "the Assignors"), are the inventors of a certain new and useful invention and discovery entitled "LUMINESCENT ORGANIC/INORGANIC MATRIX, METHOD FOR THE PRODUCTION THEREOF AND LUMINESCENT MOLECULAR THERMOMETER BASED ON SAID MATRIX" ("the Invention") for which a patent application was filed with the United States Patent and Trademark Office on 12/23/2011 as U.S. Patent Application Number 13/380,671 ("the Application").

WHEREAS, CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS (CSIC), existing under the laws of SPAIN, having its principal office at C/ Serrano, 117, 28006 Madrid, SPAIN, and UNIVERSIDAD DE AVEIRO, existing under the laws of PORTUGAL, having its principal office at Campus Universitario de Santiago, 3810-193 Aveiro, PORTUGAL, each of which together with their successors and assigns (collectively "the Assignees") is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited.

For valuable consideration, receipt and sufficiency of which is hereby acknowledged,

Assignors Fernando PALACIO, Ángel MILLÁN ESCOLANO and Nuno Joan OLIVEIRA SILVA hereby assign to Assignee CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS (CSIC),

and

Assignors Luis Antonio DIAS CARLOS, Vitor AMARAL, Patricia LIMA and Carlos BRITES hereby assign to Assignee UNIVERSIDAD DE AVEIRO,

all of their right, title, and interest in and to the Invention, all improvements therein, the Application and all priority rights arising therefrom, and any applications and/or patents, and any reissues and extensions thereof, which issue in any country upon any patent applications which correspond with any of the following: the Application; any application that claims priority from the Application (including utility applications, divisionals, continuations, continuations-in-part, international applications, and/or foreign regional and/or national applications); any application from which the Application claims priority (including provisional applications, non-provisional applications, international applications, foreign regional applications, and/or foreign national applications); or any application based in whole or in part on any of the foregoing.

Assignors agree that such Assignors and Assignors' heirs and legal representatives will, without further consideration, cooperate with Assignees in the prosecution of all of the above applications, execute, verify, acknowledge, and deliver all such further papers, including applications for patents and for reissues and extensions therefor, and instruments of assignment and transfer thereof, and will communicate any facts known to

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Assignors relating to the Invention, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignees. Assignors further agree that such Assignors will, without further compensation to Assignors during the term of such Assignors' employment by Assignees and thereafter for reasonable compensation as determined by Assignees, perform such other acts as may be reasonably required when requested by Assignees, including attending depositions, preparing and executing declarations and affidavits and testifying as a witness, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignees.

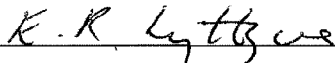
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 27<sup>th</sup> day of 1st (month), 2012 (year).



Fernando PALACIO  
INSTITUTO DE CIENCIA DE MATERIALES DE ARAGÓN (ICMA)  
Fac. Físicas Plza. San Francisco, s/n  
50009 Zaragoza  
SPAIN

On this 27<sup>th</sup> day of 1st (month), 2012 (year), Fernando PALACIO, personally known to me to be the same individual who executed the foregoing Assignment, and who acknowledged to me that execution of the same was of his own free will for the use and purposes therein set forth.

Witness Signature:

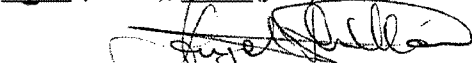


Printed Name:

EMMA REBELLA LYTHGOE

Residential Address: VINEDO VIEJO 2 CASA 813, ZARAGOZA  
SPAIN.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 27 day of 1 (month), 2012 (year).



Ángel MILLÁN ESCOLANO  
INSTITUTO DE CIENCIA DE MATERIALES DE ARAGÓN (ICMA)  
Fac. Físicas Plza. San Francisco, s/n  
50009 Zaragoza  
SPAIN

On this 27<sup>th</sup> day of 1<sup>st</sup> (month), 2012 (year), Ángel MILLÁN ESCOLANO, personally known to me to be the same individual who executed the foregoing

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Assignment, and who acknowledged to me that execution of the same was of his own free will for the use and purposes therein set forth.


Witness Signature: 

Printed Name:

GERMAN ROMEO

Residential Address: C/ LAGO DE MILLARES, 36, 2ª A - ZARAGOZA (SPAIN)

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 13 day of 01 (month), 2012 (year).



Nuno Joan OLIVEIRA SILVA

INSTITUTO DE CIENCIA DE MATERIALES DE ARAGÓN (ICMA)

Fac. Físicas Plza. San Francisco, s/n

50009 Zaragoza

SPAIN

On this 13<sup>th</sup> day of 01 (month), 2012 (year), Nuno Joan OLIVEIRA SILVA, personally known to me to be the same individual who executed the foregoing Assignment, and who acknowledged to me that execution of the same was of his own free will for the use and purposes therein set forth.

Witness Signature:



Printed Name:

SUSANA SANTOS BRAGA

Residential Address: Universidade de Aveiro, Departamento de Química

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 13 day of 01 (month), 2012 (year).



Luis Antonio DIAS CARLOS

UNIVERSIDAD DE AVEIRO

Campus Universitario de Santiago

3810-193 Aveiro

PORTUGAL

On this 13 day of 01 (month), 2012 (year), Luis Antonio DIAS CARLOS, personally known to me to be the same individual who executed the foregoing

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Assignment, and who acknowledged to me that execution of the same was of his own free will for the use and purposes therein set forth.

Witness Signature: Janie Ruth Amaral

Printed Name: ANIA RUTH AMARAL

Residential Address: UNIVERSIDADE DE AVEIRO, OPTO.FISICA, AVEIRO, PORTUGAL.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 18 day of 01 (month), 2012(year).

Vitor Brás de Sequeira Amaral

Vitor AMARAL  
UNIVERSIDAD DE AVEIRO  
Campus Universitario de Santiago  
3810-193 Aveiro  
PORTUGAL

On this 18<sup>th</sup> day of 01 (month), 2012(year), Vitor AMARAL, personally known to me to be the same individual who executed the foregoing Assignment, and who acknowledged to me that execution of the same was of his own free will for the use and purposes therein set forth.

Witness Signature: Ricardo Assis Guimarães Dias

Printed Name: RICARDO ASSIS GUIMARAES DIAS

Residential Address: Universidade de Aveiro, OPTO.Física, Portugal

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 13 day of 01 (month), 2012 (year).

Patricia Pereira de Lima

Patricia LIMA  
UNIVERSIDAD DE AVEIRO  
Campus Universitario de Santiago  
3810-193 Aveiro  
PORTUGAL

On this 13 day of 01 (month), 2012 (year), Patricia LIMA, personally known to me to be the same individual who executed the foregoing Assignment, and who

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acknowledged to me that execution of the same was of his own free will for the use and purposes therein set forth.

Witness Signature: Vânia Freitas

Printed Name: VÂNIA FREITAS

Residential Address: UNIVERSIDADE DE AVEIRO, DPTO FISICA, AVEIRO, PORTUGAL

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 17 day of 01 (month), 2012 (year).

Carlos António Delgado Sousa Brites  
Carlos BRITES  
UNIVERSIDAD DE AVEIRO  
Campus Universitario de Santiago  
3810-193 Aveiro  
PORTUGAL

On this 17 day of 01 (month), 2012 (year), Carlos BRITES, personally known to me to be the same individual who executed the foregoing Assignment, and who acknowledged to me that execution of the same was of his own free will for the use and purposes therein set forth.

Witness Signature: Lisa Andreia Sousa Brites

Printed Name: LISA ANDREIA SOUSA BRITES

Residential Address: RUA ABC, N.3, 3870 - 054 OIA

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