

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3461245

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BIN ZHANG	06/28/2010
RAJESH MUKHERJEE	06/21/2010
HIRONAKA FUJII	06/21/2010
HIROAKI MIYAGAWA	06/21/2010
GUANG PAN	06/28/2010
TOSHITAKA NAKAMURA	06/21/2010
AMANE MOCHIZUKI	06/21/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NITTO DENKO CORPORATION
<b>Street Address:</b>	1-1-2 SHIMOHOZUMI
<b>Internal Address:</b>	IBARAKI
<b>City:</b>	OSAKA
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	567-8680
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	13958244
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Email:</b>	efiling@knobbe.com
<b>Correspondent Name:</b>	KNOBBE MARTENS
<b>Address Line 1:</b>	2040 MAIN STREET
<b>Address Line 2:</b>	14TH FLOOR
<b>Address Line 4:</b>	IRVINE, CALIFORNIA 92614
<b>ATTORNEY DOCKET NUMBER:</b>	NDTCO.158C1
<b>NAME OF SUBMITTER:</b>	MARK METZKE
<b>SIGNATURE:</b>	/Mark Metzke/

<b>DATE SIGNED:</b>	07/29/2015
<b>Total Attachments: 8</b> source=assignment#page1.tif source=assignment#page2.tif source=assignment#page3.tif source=assignment#page4.tif source=assignment#page5.tif source=assignment#page6.tif source=assignment#page7.tif source=assignment#page8.tif	

### ASSIGNMENT

WHEREAS, Bin Zhang, a United States citizen, residing at San Diego, CA, Rajesh Mukherjee, a United States citizen, residing at Irvine, CA, Hironaka Fujii, a United States citizen, residing at Carlsbad, CA, Hiroaki Miyagawa, a United States citizen, residing at Oceanside, CA, Guang Pan, a United States citizen, residing at Carlsbad, CA, Toshitaka Nakamura, a United States citizen, residing at Oceanside, CA, Amane Mochizuki, a United States citizen, residing at San Diego, CA, (individual(s) hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas or discoveries related to GARNET-BASED PHOSPHOR CERAMIC SHEETS FOR LIGHT EMITTING DEVICE (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States has been prepared for filing (identified above) with the United States Patent and Trademark Office (hereinafter the "Application");

AND WHEREAS, Nitto Denko Corporation, a Japanese Corporation, with its principal place of business at 1-1-2 Shimohozumi Ibaraki, Osaka 567-8680, JAPAN (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Application and the Work:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Application and the Work, including all provisional applications relating thereto (including but not limited to U.S. Provisional Application No(s). 81/315763, filed March 19, 2010 (respectively if plural applications)), and all nonprovisional applications claiming priority thereto, including, all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other provisional or non-provisional applications relating to the Application and the Work or any improvements made thereto, sign all lawful papers, execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 28 day of June, 2010.



Bin Zhang

STATE OF CALIFORNIA

ss.

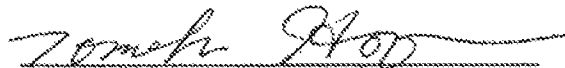
COUNTY OF San Diego

On June 28, 2010, before me, Tomoko Hoffman, notary public, personally appeared Bin Zhang 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.

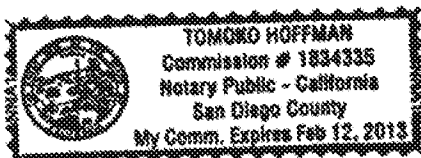
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

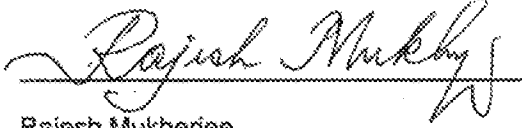
[SEAL]



Notary Signature



IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 21st day of June, 2010.

  
Rajesh Mukherjee

STATE OF CALIFORNIA

ss.


COUNTY OF San Diego

On June 21, 2010, before me, Tomoko Hoffman, notary public, personally appeared Rajesh Mukherjee 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.

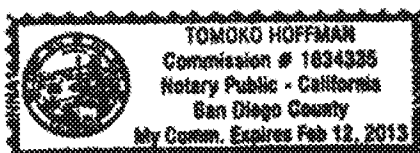
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]



Notary Signature



IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 21 day of June, 2010.

Hironaka Fujii  
Hironaka Fujii

STATE OF CALIFORNIA

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ss.

COUNTY OF San Diego

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On June 21, 2010, before me, Tomoko Hoffman notary public, personally appeared Hironaka Fujii 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.

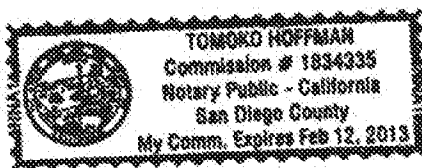
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]

Tomoko Hoffman

Notary Signature



IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 21 day of  
June, 2010.

Hiroaki Miyagawa  
Hiroaki Miyagawa

STATE OF CALIFORNIA }

ss.

COUNTY OF San Diego }

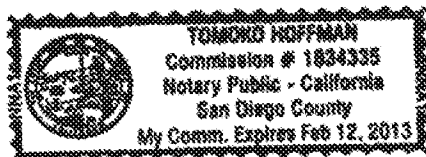
On June 21, 2010, before me, Tomoko Hoffman, notary public, personally appeared Hiroaki Miyagawa who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their 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.

[SEAL]

Tomoko Hoffman  
Notary Signature



IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 28th day of June, 2010.

  
\_\_\_\_\_  
Guang Pan

STATE OF CALIFORNIA

ss.

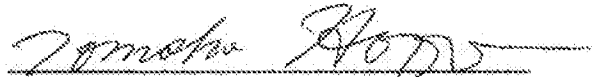
COUNTY OF San Diego

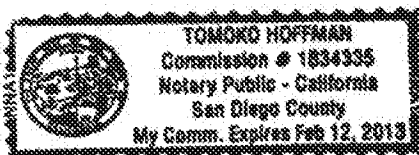
On June 28, 2010, before me, Tomoko Hoffman, notary public, personally appeared Guang Pan who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized 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.

[SEAL]

  
\_\_\_\_\_  
Notary Signature





IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 21 day of June, 2010.  
T.N.

Toshitaka Nakamura

Toshitaka Nakamura

STATE OF CALIFORNIA

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ss.

COUNTY OF San Diego

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On June 21, 2010, before me, Tomoko Hoffman, notary public, personally appeared Toshitaka Nakamura 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.

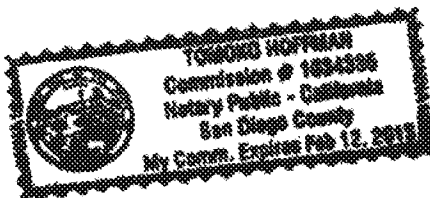
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]

Tomoko Hoffman

Notary Signature



IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 21 day of June, 2010.



Amane Mochizuki

STATE OF CALIFORNIA

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ss.

COUNTY OF San Diego

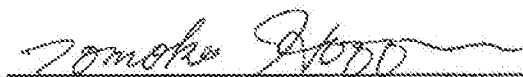
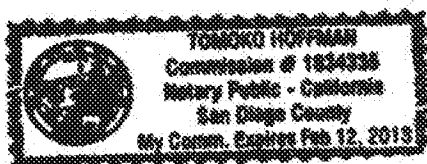
}

On June 21st, 2010, before me, Tomoko Hoffman, notary public, personally appeared Amane Mochizuki who proved to me on the basis of satisfactory evidence to be the person(x) 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(x) on the instrument the person(x), or the entity upon behalf of which the person(x) 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.

[SEAL]



Notary Signature

9083138  
052410