

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY AGREEMENT

CONVEYING PARTY DATA

Name	Execution Date
NANOLUMENS ACQUISITION INC.	07/30/2013

RECEIVING PARTY DATA

Name:	SQUARE 1 BANK
Street Address:	406 Blackwell Street
Internal Address:	Suite 240
City:	Durham
State/Country:	NORTH CAROLINA
Postal Code:	27701

PROPERTY NUMBERS Total: 18

Property Type	Number
Patent Number:	5725801
Patent Number:	5897812
Patent Number:	6403204
Patent Number:	7133009
Application Number:	10552452
Application Number:	10570516
Application Number:	11535377
Application Number:	11681250
Application Number:	11681960
Application Number:	11683489
Application Number:	11743299
Application Number:	11779802
Application Number:	11832786
Application Number:	11834189

CH \$720.00 5725801

Application Number:	12348158
Application Number:	13231950
Application Number:	13297784
Application Number:	13494012

CORRESPONDENCE DATA

Fax Number: 9193541278
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 919-314-3086
Email: loandocsdept@square1bank.com
Correspondent Name: Square 1 Bank
Address Line 1: 406 Blackwell Street
Address Line 2: Suite 240
Address Line 4: Durham, NORTH CAROLINA 27701

NAME OF SUBMITTER:	Lee Conner
Signature:	/leeconner-sra/
Date:	08/02/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 7

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INTELLECTUAL PROPERTY SECURITY AGREEMENT

THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT is entered into as of July 30, 2013 by and between SQUARE 1 BANK ("*Bank*") and NANOLUMENS ACQUISITION INC., a Georgia corporation ("*Grantor*").

RECITALS

A. Bank has agreed to make certain advances of money and to extend certain financial accommodations to Grantor (the "Loans") in the amounts and manner set forth in that certain Loan and Security Agreement by and between Bank, Grantor, and NanoLumens, Inc. dated July 25, 2013 (as the same may be amended, modified or supplemented from time to time, the "Loan Agreement"; capitalized terms used herein are used as defined in the Loan Agreement).

B. Bank is willing to extend and to continue to extend financial accommodations to Grantor, but only upon the condition, among others, that Grantor shall grant to Bank a security interest in certain Copyrights, Trademarks and Patents to secure the obligations of Grantor under the Loan Agreement.

C. Pursuant to the terms of the Loan Agreement, Grantor has granted to Bank a security interest in all of Grantor's right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement and all other agreements now existing or hereafter arising between Grantor and Bank, Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

To secure its Obligations to Bank, Grantor grants and pledges to Bank a security interest in all of Grantor's right, title and interest in, to and under its Intellectual Property (including without limitation those Copyrights, Patents and Trademarks listed on Exhibits A, B and C hereto), and including without limitation all proceeds thereof (such as, by way of example but not by way of limitation, license royalties and proceeds of infringement suits), the right to sue for past, present and future infringements, all rights corresponding thereto throughout the world and all re-issues, divisions continuations, renewals, extensions and continuations-in-part thereof.

This security interest is granted in conjunction with the security interest granted to Bank under the Loan Agreement. The rights and remedies of Bank with respect to the security interest granted hereby are in addition to those set forth in the Loan Agreement and the other Loan Documents, and those which are now or hereafter available to Bank as a matter of law or equity. Each right, power and remedy of Bank provided for herein or in the Loan Agreement or any of the Loan Documents, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the

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exercise by Bank of any one or more of the rights, powers or remedies provided for in this Intellectual Property Security Agreement, the Loan Agreement or any of the other Loan Documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Bank, of any or all other rights, powers or remedies.

Grantor represents and warrants that Exhibits A, B, and C attached hereto set forth any and all intellectual property rights in connection to which Grantor has registered or filed an application with either the United States Patent and Trademark Office or the United States Copyright Office, as applicable.

SIGNATURE PAGE FOLLOWS

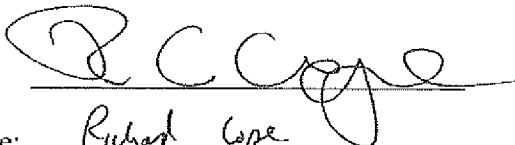
IN WITNESS WHEREOF, each party has caused this Intellectual Property Security Agreement to be duly executed by an officer thereunto duly authorized as of the first date written above.

GRANTOR:

Address of Grantor:

NANOLUMENS ACQUISITION INC.

4900 Avalon Ridge Parkway
Norcross, GA 30071


By: 
Name: Richard Cope
Title: President and CEO

BANK:

Address of Bank:

SQUARE 1 BANK

406 Blackwell Street, Suite 240
Durham, NC 27701
Attn: Loan Documentation Department

By: 
Name: Zach Robbins
Title: AVP

[Signature Page to Intellectual Property Security Agreement]

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EXHIBIT A
COPYRIGHTS

<u>Description</u>	<u>Registration Number</u>	<u>Registration Date</u>
None		

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EXHIBIT B

PATENTS

Description	Registration OR Serial Number	Registration OR Filing Date
Doped amorphous and crystalline gallium oxides, alkaline earth gallates and doped zinc germanate phosphors as electroluminescent materials	5725801	03/10/1998
Doped amorphous and crystalline gallium oxides alkaline earth gallates and doped zinc germanate phosphors as electroluminescent materials	5897812	04/27/1999
Oxide phosphor electroluminescent laminate	6403204	06/11/2002
Capacitively switched matrixed el display	7133009	11/07/2006
Europium-doped gallium-indium oxides as red emitting electroluminescent phosphor materials	10/552452	12/22/2006
Sphere-supported thin film phosphor electroluminescent devices	10/570516	10/25/2006
Electroluminescent Display Apparatus and Methods	11/535377	09/26/2006
Dynamic vehicle display system	11/681250	03/02/2007
Systems and Methods for Front Contacts for Electroluminescent Apparatus and Flexible Display	11/681960	03/05/2007
Electroluminescent Nixels and Elements with Single-Sided Electrical Contacts	11/683489	03/08/2007
Vehicle with Interior Video Display for Exterior View	11/743299	05/02/2007
Voltage partitioned display	11/779802	07/18/2007
Hybrid display	11/832786	08/02/2007
Emissive movie theater display	11/834189	08/06/2007
Flexible display	12/348158	01/02/2009

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Lightweight unitary display	13/231950	09/13/2011
Systems for Facilitating Virtual presence	13/297784	11/16/2011
Mobile, Personsize Display System and Method of Use	13/494012	06/11/2012



EXHIBIT C
TRADEMARKS

Description	Registration/ Application Number	Registration/ Application Date
None		

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