

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>David Loren Carroll</td> <td>12/19/2008</td> </tr> <tr> <td>Jiwen Liu</td> <td>03/03/2009</td> </tr> <tr> <td>Manoj A.G. Namboothiry</td> <td>01/05/2009</td> </tr> </tbody> </table>		Name	Execution Date	David Loren Carroll	12/19/2008	Jiwen Liu	03/03/2009	Manoj A.G. Namboothiry	01/05/2009		
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: (704)371-8321</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 704.338.5021</p> <p>Email: cwimbish@kilpatrickstockton.com</p> <p>Correspondent Name: J. Clinton Wimbish</p> <p>Address Line 1: 214 North Tryon St., Suite 2500</p> <p>Address Line 4: Charlotte, NORTH CAROLINA 28202</p>											
ATTORNEY DOCKET NUMBER:	08077-326488										
NAME OF SUBMITTER:	J. Clintom Wimbish										
<p>Total Attachments: 4</p> <p>source=Assignment#page1.tif</p> <p>source=Assignment#page2.tif</p>											

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PATENT
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ASSIGNMENT

WHEREAS, we, **DAVID LOREN CARROLL**, a citizen of the United States of America residing at 5173 Laurel View Drive, Winston-Salem, NC 28104; **JIWEN LIU**, a citizen of China, residing at 2200 Allen Easley Drive, Apt. 5-I, Winston-Salem, NC 27106; and **MANOJ A. G. NAMBOOTHIRY**, a citizen of India residing at 650 Rugby Row, Apt. D, Winston-Salem, NC 27106 (ASSIGNORS) have invented certain inventions and improvements disclosed in a Patent Cooperation Treaty (PCT) patent application entitled **ORGANIC OPTOELECTRONIC DEVICES AND APPLICATIONS THEREOF** filed in the U.S. Receiving Office on May 1, 2006 and assigned International Application Number PCT/US06/16730; and

WHEREAS, **Wake Forest University** (ASSIGNEE), 1834 Wake Forest Road, Winston-Salem, NC 27106, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

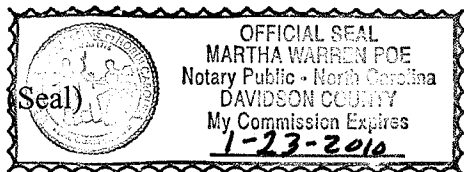
NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application, any applications claiming priority thereto, and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by

virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

David Loren Carroll
DAVID LOREN CARROLL

STATE OF North Carolina
COUNTY OF Forsyth

Before me, a Notary Public in and for the State of North Carolina, on this 19th day of December, 2008, personally appeared DAVID LOREN CARROLL, who being duly sworn, signed and acknowledged the foregoing Assignment as his/her free act and deed.



Martha Warren Poe
NOTARY PUBLIC
My Commission Expires: 1-23-2010

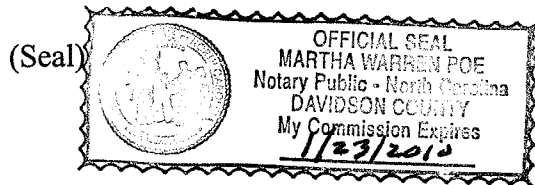
Li Wen

JIWEN LIU

STATE OF North Carolina

COUNTY OF Forsyth

Before me, a Notary Public in and for the State of North Carolina, on this 3rd day of March, 2008, personally appeared JIWEN LIU, who being duly sworn, signed and acknowledged the foregoing Assignment as his/her free act and deed.



Martha Warren Poe

NOTARY PUBLIC

My Commission Expires:

MANOJ A.G. NAMBOOTHIRY

STATE OF _____

COUNTY OF _____

Before me, a Notary Public in and for the State of _____, on this ____ day of _____, 2008, personally appeared MANOJ A.G. NAMBOOTHIRY, who being duly sworn, signed and acknowledged the foregoing Assignment as his/her free act and deed.

(Seal)

NOTARY PUBLIC

My Commission Expires:

JIWEN LIU

STATE OF _____

COUNTY OF _____

Before me, a Notary Public in and for the State of _____, on this _____ day of _____, 2008, personally appeared JIWEN LIU, who being duly sworn, signed and acknowledged the foregoing Assignment as his/her free act and deed.

(Seal)

NOTARY PUBLIC
My Commission Expires:

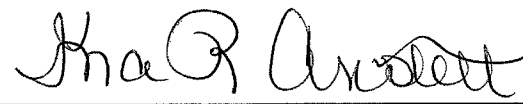

MANOJ A.G. NAMBOOTHIRY

STATE OF Indiana

COUNTY OF Tippecanoe

Before me, a Notary Public in and for the State of Indiana, on this 5th day of January, 2009, personally appeared MANOJ A.G. NAMBOOTHIRY, who being duly sworn, signed and acknowledged the foregoing Assignment as his/her free act and deed.

(Seal)


NOTARY PUBLIC
My Commission Expires: 12/8/2015

