

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3056303

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PEICHUN YANG	09/17/2014
DAVID A. WINICK	09/17/2014
PAUL FRANZON	09/17/2014
NEIL H. DISPIGNA	09/19/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NORTH CAROLINA STATE UNIVERSITY
<b>Street Address:</b>	1021 MAIN CAMPUS DRIVE
<b>Internal Address:</b>	CAMPUS BOX 8210
<b>City:</b>	RALEIGH
<b>State/Country:</b>	NORTH CAROLINA
<b>Postal Code:</b>	27695
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14446456
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(888)737-1649
<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>Phone:</b>	9193424882
<b>Email:</b>	docket@OLIVELAWGROUP.COM
<b>Correspondent Name:</b>	OLIVE LAW GROUP, PLLC BENTLEY J OLIVE
<b>Address Line 1:</b>	125 EDINBURGH SOUTH DRIVE
<b>Address Line 2:</b>	SUITE 220
<b>Address Line 4:</b>	CARY, NORTH CAROLINA 27511
<b>ATTORNEY DOCKET NUMBER:</b>	127/32 UTIL
<b>NAME OF SUBMITTER:</b>	BENTLEY J. OLIVE
<b>SIGNATURE:</b>	/Bentley J. Olive/
<b>DATE SIGNED:</b>	10/08/2014
<b>Total Attachments: 6</b>	
source=Assignment_127_32_UTIL_executed_all#page1.tif	

source=Assignment\_127\_32\_UTIL\_executed\_all#page2.tif  
source=Assignment\_127\_32\_UTIL\_executed\_all#page3.tif  
source=Assignment\_127\_32\_UTIL\_executed\_all#page4.tif  
source=Assignment\_127\_32\_UTIL\_executed\_all#page5.tif  
source=Assignment\_127\_32\_UTIL\_executed\_all#page6.tif

ASSIGNMENT

WHEREAS, We, **Peichun Yang** of Raleigh, North Carolina; **David A. Winick** of Raleigh, North Carolina; **Paul Franzon** of New Hill, North Carolina; and **Neil H. DiSpigna** of Durham, North Carolina; (hereinafter "Assignors"), have invented certain new and useful improvements in **ELECTROACTIVE, ACTUATED DOT STRUCTURES AND ASSOCIATED METHODS**, for which Utility Patent Application No. 14/446,456 was filed on July 30, 2014, and which claims priority from U.S. Provisional Patent Application No. 61/860,852, filed on July 31, 2013.

AND, WHEREAS, **North Carolina State University**, a non-profit public educational institution under the laws of the State of North Carolina, with an office located at 1021 Main Campus Drive, Campus Box 8210, Raleigh, North Carolina 27695, United States of America, (hereinafter "Assignee"), is desirous of acquiring an interest therein.

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors have assigned and by these presents do hereby sell, assign, transfer, and convey unto the Assignee, its successors and assigns, their entire right, title, and interest in and to the invention and application, including the right to sue for past infringements and any other prior occurring rights, provided any such rights exist, and in and to any and all domestic and foreign patent applications filed on the invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America, and all foreign countries or reissues thereof which may be granted therefor or thereon, for the full end of the term for which said Letters Patent may be granted, together with his right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this assignment and sale had not been made. Assignors further assign to Assignee the right to claim entitlement and/or priority to any applications that entitlement or priority may be claimed for this or any later filed application. The assignment of the right to claim entitlement and/or priority is executed *nunc pro tunc* and is considered effective as of the filing date of the earliest application to which priority and/or entitlement is claimed.

Assignors hereby request that said Letters Patent be issued in accordance with this assignment.

Assignors further covenant and agree that, at the time of the execution and delivery of these presents, Assignors possess full title to the invention and application above-mentioned, and that they have the unencumbered right and authority to make this assignment.

Assignors further covenant and agree, and likewise bind their heirs, legal representatives and assigns, to promptly communicate to said Assignee or its representatives any facts known to him relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors and assigns to secure patent or similar protection for the said invention in all countries and to vest in the Assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

<<      Signature Page Follows      >>

Executed this 17 day of September, 2014.

Peichun Yang  
Peichun Yang

State of North Carolina

County of Wake

On 9-17-2014, before me, Jodi J. Falk,  
(date) (notary)

personally appeared, Peichun Yang, personally known to me or  
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.

Jodi J. Falk


WITNESS my hand and official seal

Notary Public

(seal)  
Wake County, NC

Jodi J. Falk  
(notary signature)

Executed this 17 day of SEPTEMBER, 2014.

  
\_\_\_\_\_  
David A. Winick

State of

North Carolina

County of

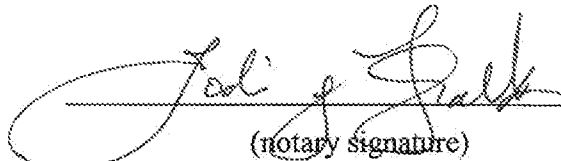
Wake

On 9-17-2014, before me, Jodi J. Falk,  
(date) (notary)

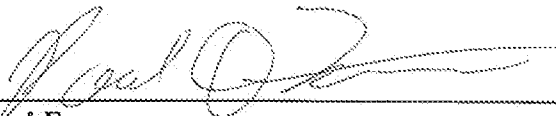
personally appeared, David A. Winick, personally known to me or  
proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same  
in his/her/their authorized capacity(ies), and 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.

WITNESS my hand and official seal

Jodi J. Falk  
Notary Public  
(seal)  
Wake County, NC

  
\_\_\_\_\_  
(notary signature)

Executed this 18 day of Sept, 2014.

  
\_\_\_\_\_  
Paul Franzon

State of North Carolina

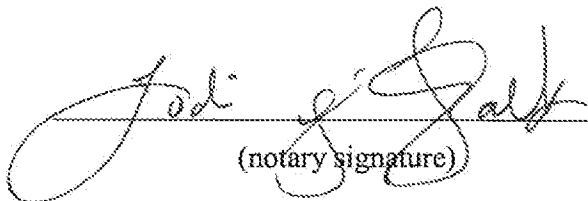
County of Wake

On 9-15-2014, before me, Jodi J. Falk,  
(date) (notary)

personally appeared, Paul Franzon, personally known to me or  
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.

WITNESS my hand and official seal

Jodi J. Falk  
Notary Public  
(seal)  
Wake County, NC

  
\_\_\_\_\_  
(notary signature)

Executed this 19 day of September, 2014.

Neil H. DiSpigna  
Neil H. DiSpigna

State of North Carolina

County of Wake

On 9-19-2014, before me, Jodi J. Falk,  
(date) (notary)

personally appeared, Neil H. DiSpigna, personally known to me or  
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.

WITNESS my hand and official seal

Jodi J. Falk

Notary Public  
(seal)

Wake County, NC

Jodi J. Falk  
(notary signature)