

## PATENT ASSIGNMENT

Electronic Version v1.1  
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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>Lifeng Zhang</td> <td>03/25/2013</td> </tr> <tr> <td>Ajit Kelkar</td> <td>03/25/2013</td> </tr> </tbody> </table>		Name	Execution Date	Lifeng Zhang	03/25/2013	Ajit Kelkar	03/25/2013				
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>North Carolina Agricultural and Technical State University</td> </tr> <tr> <td>Street Address:</td> <td>1601 East Market Street</td> </tr> <tr> <td>City:</td> <td>Greensboro</td> </tr> <tr> <td>State/Country:</td> <td>NORTH CAROLINA</td> </tr> <tr> <td>Postal Code:</td> <td>27411</td> </tr> </table>		Name:	North Carolina Agricultural and Technical State University	Street Address:	1601 East Market Street	City:	Greensboro	State/Country:	NORTH CAROLINA	Postal Code:	27411
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PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13830043</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13830043						
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CORRESPONDENCE DATA											
<p>Fax Number: 9194190383  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (919) 493-8000        Email: cmartin@jwth.com        Correspondent Name: Arles A. Taylor, Jr.        Address Line 1: 3100 Tower Boulevard        Address Line 2: University Tower, Suite 1200        Address Line 4: Durham, NORTH CAROLINA 27707</p>											
ATTORNEY DOCKET NUMBER:	1884/3/2										
NAME OF SUBMITTER:	Carly Martin										
Signature:	/Carly Martin/										
Date:	04/16/2013										

OP \$40.00 13830043

Total Attachments: 4

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RECORDATION FORM COVER SHEET

PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

LIFENG ZHANG  
AJIT KELKAR

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): 03/25/2013

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

2. Name and address of receiving party(ies)

Name: North Carolina Agricultural and  
Technical State University

Internal Address: \_\_\_\_\_

Street Address: 1601 East Market Street

City: Greensboro

State: North Carolina

Country: \_\_\_\_\_ Zip: 27411

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

A. Patent Application No.(s) 13/830,043

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Arles A. Taylor, Jr.

Jenkins, Wilson, Taylor & Hunt, P.A.

Internal Address: \_\_\_\_\_

Street Address: Suite 1200, University Tower

3100 Tower Boulevard

City: Durham

State: NC Zip: 27707

Phone Number: 919-493-8000

Fax Number: 919-419-0383

Email Address: ataylor@jwth.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☒ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

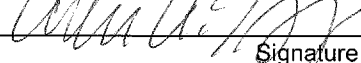
8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 50-0426

Authorized User Name Jenkins, Wilson, Taylor & Hunt, P.A.

Attorney Docket No.: 1884/3/2

9. Signature:  Signature

04/16/2013  
Date

Arles A. Taylor, Jr.  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

4

PATENT

Attorney Docket No.: 1884/3/2

ASSIGNMENT

WHEREAS, we, Lifeng Zhang of Greensboro, North Carolina; and Ajit Kelkar of Greensboro, North Carolina (hereinafter "Assignors"), have invented certain new and useful improvements in PRODUCTION OF CARBONACEOUS NANO-FIBROUS MATERIALS WITH ULTRA-HIGH SPECIFIC SURFACE AREA FROM ALKALI (KRAFT) LIGNIN (hereinafter "Invention") for which application for a U.S. Patent was made on March 14, 2013 as Serial No. 13/830,043, and which claims priority to Provisional Patent Application Serial No. 61/656,813, filed June 7, 2012 (hereinafter "Applications").

AND, WHEREAS, North Carolina Agricultural and Technical State University, a non-profit organization duly organized and existing under the laws of the state of North Carolina, having its principal office and place of business at 1601 East Market Street, Greensboro, North Carolina 27411 (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 sold 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 Applications, and in and to any and all 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 their right to claim the priority of the Applications in all countries in accordance with the Paris Convention, the Patent Cooperation Treaty, or other agreement or national law under which priority can be claimed, 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.

**PATENT**


**REEL: 030225 FRAME: 0072**

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 Applications 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 them relating to the Invention, to testify in any interference or legal proceedings involving the Applications or 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 Invention in all countries and to vest in the Assignee complete title to the Invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

Executed this 25<sup>th</sup> day of March 2013.

  
Lifeng Zhang

Witnessed by:

Karen Courtneef 3/25/13  
Name Date

Jacqueline Bates 03/25/2013  
Name Date

\*\*\*\*\*

Attorney Docket No.: 1884/3/2

Executed this 25<sup>th</sup> day of March 2013.

Ajit D. Kelkar  
Ajit Kelkar

Witnessed by:

Karen Courtney 3-25-13  
Name Date

Jaqueline Oates 03/25/2013  
Name Date

\*\*\*\*\*