

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4036900

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		
CONVEYING PARTY DATA			
	Name	Execution Date	
	FANXING LI	10/05/2015	
	YANGUANG CHEN	10/23/2015	
RECEIVING PARTY DATA			
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City:	RALEIGH		
State/Country:	NORTH CAROLINA		
Postal Code:	27606		
PROPERTY NUMBERS Total: 1			
	Property Type	Number	
	Application Number:	15109894	
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ATTORNEY DOCKET NUMBER:	221404-1070		
NAME OF SUBMITTER:	CHRISTOPHER B. LINDER		
SIGNATURE:	/CBL/		
DATE SIGNED:	09/02/2016		
Total Attachments: 4			
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Atty. Docket No. : 127/39 PCT
NCSU Ref. No. 14-088

ASSIGNMENT

WHEREAS, we, **Fanxing Li**, City of Raleigh, State of North Carolina, and **Yangang Chen**, City of Daqing, Country of China (hereinafter "Assignor"), has invented certain new and useful improvements in **Mixed-Conductor Enhanced Composite and Core-Shell Oxides For Cyclic Redox Production of Fuels and Chemicals**, for which a PCT Application No. PCT/US15/10280, filed January 6, 2015, claiming the benefit of U. S. Provisional Application Serial No. 61/923,939, filed January 6, 2014.

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, 2nd Floor, Raleigh, North Carolina 27606, 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, Assignor has assigned and by these presents does hereby sell, assign, transfer, and convey unto the Assignee, its successors and assigns, his 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 Assignor if this assignment and sale had not been made. Assignor further assigns 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.

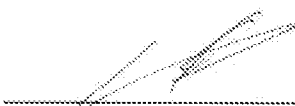
Assignor hereby requests that said Letters Patent be issued in accordance with this assignment.

Assignor further covenants and agrees that, at the time of the execution and delivery of these presents, Assignor possesses full title to the invention and application above-mentioned, and that he has the unencumbered right and authority to make this assignment.

Assignor further covenants and agrees, and likewise binds his 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 5 day of October, 2015.



Fanxing Li

State of

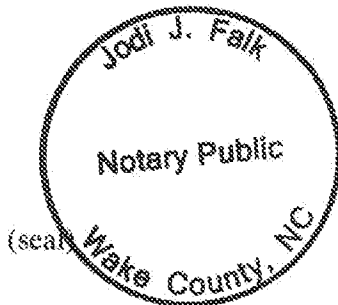
North Carolina

County of

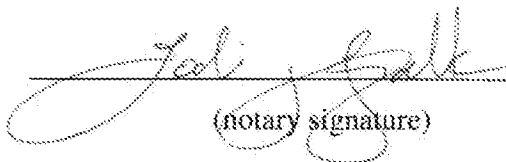
Wake

On 10-5-2015, before me, Jodi J. Falk,
(date) (notary)

personally appeared, Fanxing Li, 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



(notary signature)

Atty. Docket No.: 127/39 PCT
NCSU Ref. No. 14-088

Executed this 23 day of October, 2015.

Yanguang Chen
Yanguang Chen

Jun Song
Witness Date 2015.10.23

Mei Zhong
Witness Date 2015.10.23