

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3150923

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DAVID L. CARROLL	10/02/2014
ROBERT SUMMERS	10/02/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	WAKE FOREST UNIVERSITY
<b>Street Address:</b>	391 TECHNOLOGY WAY, SUITE 199
<b>City:</b>	WINSTON-SALEM
<b>State/Country:</b>	NORTH CAROLINA
<b>Postal Code:</b>	27101
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>PCT Number:</b>	US2014027486
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(704)384-2903
<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>	704-384-2658
<b>Email:</b>	julie.krumpelman@smithmoorelaw.com
<b>Correspondent Name:</b>	SMITH MOORE LEATHERWOOD LLP
<b>Address Line 1:</b>	101 NORTH TRYON STREET, SUITE 1300
<b>Address Line 4:</b>	CHARLOTTE, NORTH CAROLINA 28246
<b>ATTORNEY DOCKET NUMBER:</b>	5012921.031PC1
<b>NAME OF SUBMITTER:</b>	JULIE C. KRUMPELMAN
<b>SIGNATURE:</b>	/Julie C. Krumpelman/
<b>DATE SIGNED:</b>	12/17/2014
<b>Total Attachments: 2</b>	
source=5012921_031PC1_Assignment#page1.tif	
source=5012921_031PC1_Assignment#page2.tif	

## **ASSIGNMENT**

---

WHEREAS, We, **DAVID L. CARROLL**, residing at 5173 Laurel View Drive, Winston Salem, North Carolina 27104 and **ROBERT SUMMERS**, residing at 577 Drumheller Road, Clemmons, North Carolina 27012 (ASSIGNORS), have invented certain inventions and improvements disclosed in a patent application entitled **THERMOELECTRIC APPARATUS AND ARTICLES AND APPLICATIONS THEREOF** filed with the United States Receiving Office on March 14, 2014, and assigned International Application Number PCT/US2014/027486; and

WHEREAS, **WAKE FOREST UNIVERSITY**, (ASSIGNEE), of 391 Technology Way, Suite 199, Winston-Salem, North Carolina 27101, 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 PCT 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, any applications entering national phase examination therefrom, 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 PCT 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 all letters patents on said invention be issued 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 therefore.

Inventor Signature: David L. Carroll  
**DAVID L. CARROLL**

Date: 10/02/2014

Inventor Signature: Robert L. Summers  
**ROBERT SUMMERS**

Date: 10/2/14