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PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Umit S. Ozkan	12/05/2012
Dieter von Deak	05/16/2012
Elizabeth Biddinger	12/05/2012

RECEIVING PARTY DATA

Name:	The Ohio State University
Street Address:	1524 North High Street
City:	Columbus
State/Country:	ОНЮ
Postal Code:	43201

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	61487431
Application Number:	13474341

CORRESPONDENCE DATA

Fax Number: 5132416234

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ATTORNEY DOCKET NUMBER:	OSU-11186US
NAME OF SUBMITTER:	Kevin E. Kuehn

Total Attachments: 6

PATENT REEL: 029584 FRAME: 0561 OP \$80,00 614874

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ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, the undersigned, **Umit S. Ozkan**, a U.S. citizen, residing at 531 Highgate Avenue, Worthington, Ohio 43085 (US); **Dieter von Deak**, a U.S. citizen, residing at 50 N Evergreen Rd, Apt. 53D, Edison, New Jersey 08837 (US); and **Elizabeth Biddinger**, a U.S. citizen, residing at 2215 Lake Park Drive, S.E., Apt. W, Smyrna, Georgia 30080 (hereinafter "Assignors") hereby sell, assign and transfer to **The Ohio State University**, an Institution of Higher Education in the State of Ohio having offices located at the Technology Commercialization and Knowledge Transfer Office, 1524 North High Street, Columbus, Ohio 43201 (hereinafter "Assignee"), it successors, assigns and legal representatives, the entire right, title and interest, in and to any and all inventions which are disclosed in

U.S. Patent Application Serial No. 61/487,431;
Entitled: PHOSPHORUS DOPED CARBON-CONTAINING CATALYST FOR PROTON EXCHANGE
MEMBRANES AND METHOD FOR MAKING SAME

and

U.S. Patent Application Serial No. 13,474,341
Entitled: CATALYSTS FOR USE IN ELECTROCHEMICAL APPLICATIONS AND ELECTRODES AND DEVICES USING SAME

SUCH ASSIGNMENT shall be in and to each said application and extensions thereof including all rights of priority arising therefrom and in and to all non-provisional, divisional, continuing applications, substitute, renewal, reissue applications, all provisional applications directed to the same invention which have been or will be filed and all other applications for Letters Patent which have been or shall be filed in the United States and all countries of the world and all international applications on any of said inventions, and in and to all original and reissued patents which have been or shall be issued in the United States and all countries of the world on said invention. We hereby authorize and request the Commissioner of Patents or other proper Officer to issue such Letters Patent to the above Assignee, its successors and/or assigns.

ASSIGNORS also agree that said Assignee may apply for, receive and maintain Letters Patent for said inventions in its own name; and that, when requested, without charge to, but at the expense of said Assignee, its successors, assigns and legal representatives, Assignors will carry out in good faith the intent and purpose of this assignment and that the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on any and all said inventions for the U.S., all other countries of the world and under all treaties; and will execute all rightful oaths, supplemental oaths, preliminary statements, assignments, powers of attorney, assurance of title, declarations and other papers for the U.S., all other countries and under all treaties , and will communicate to said Assignee, its successors, assign and representatives, all facts known to the undersigned relating to said inventions and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions, and for complying with applicable law and for vesting title to said inventions and all applications for patents and all patents on said inventions in said Assignee, its successors, assigns and legal representatives for the U.S., all other countries and under all related treaties.

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ASSIGNORS hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country as proof of the right of said Assignee to apply for, defend or enforce a patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority,

ASSIGNORS FURTHER covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: December 5, 2012	Ву:	Swif S. Oslan Umit S. Ozkan
Printed Name Date: 12/5/12		nevs
Date:		Dieter von Deak
WITNESSED BY:		
Printed Name Date:		
Date:	By:	Elizabeth Biddinger
NITNESSED BY:		
Printed Name		

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Date: E	Зу:
	Umit S. Ozkan
WITNESSED BY:	
Printed Name Date:	
Date: 5/16/1)	By: Da Da Alex
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WITNESSED BY:	
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Printed Name <u>BUTCU BCIYRAM</u> Date: <u>5/16/201</u> 2	
Date:	By: Elizabeth Biddinger
WITNESSED BY:	
Printed Name	

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Date:	Ву:
	Umit S. Ozkan
WITNESSED BY:	
Washington and the same of	
Printed Name	
Date	
Date:	By:
WITNESSED BY:	
Printed Name	
Date: 12-5-12	By: Elykes Bidding
WITNESSED BY:	Elizabetb/Biddinger
Printed Name Nicholas Cron	7. ė

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