

## 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>Andrew D. Odell</td> <td>06/13/2012</td> </tr> <tr> <td>Robert J. Scholz</td> <td>06/12/2012</td> </tr> <tr> <td>James A. Tangen</td> <td>06/15/2012</td> </tr> <tr> <td>Gerald F. Davina</td> <td>06/07/2012</td> </tr> <tr> <td>Joseph F. Giannelli</td> <td>06/07/2012</td> </tr> <tr> <td>Susan E. Garcia</td> <td>06/11/2012</td> </tr> </tbody> </table>		Name	Execution Date	Andrew D. Odell	06/13/2012	Robert J. Scholz	06/12/2012	James A. Tangen	06/15/2012	Gerald F. Davina	06/07/2012	Joseph F. Giannelli	06/07/2012	Susan E. Garcia	06/11/2012
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RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>ELECTRIC POWER RESEARCH INSTITUTE, INC.</td> </tr> <tr> <td>Street Address:</td> <td>1300 West WT Harris Blvd</td> </tr> <tr> <td>City:</td> <td>Charlotte</td> </tr> <tr> <td>State/Country:</td> <td>NORTH CAROLINA</td> </tr> <tr> <td>Postal Code:</td> <td>28262</td> </tr> </table>		Name:	ELECTRIC POWER RESEARCH INSTITUTE, INC.	Street Address:	1300 West WT Harris Blvd	City:	Charlotte	State/Country:	NORTH CAROLINA	Postal Code:	28262				
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PROPERTY NUMBERS Total: 1															
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Application Number:	13478953														
CORRESPONDENCE DATA															
Fax Number:	(704)599-8719														
Phone:	704-599-8911														
Email:	bct@THL-IPLAW.COM														
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>															
Correspondent Name:	TREGO, HINES & LADENHEIM, PLLC														
Address Line 1:	9300 HARRIS CORNERS PARKWAY														
Address Line 2:	SUITE 210														
Address Line 4:	CHARLOTTE, NORTH CAROLINA 28269-3797														
ATTORNEY DOCKET NUMBER:	1036/159US														

OP \$40.00 13478953

NAME OF SUBMITTER:

Brandon C. Trego

**Total Attachments: 6**

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**PATENT**

**REEL: 028530 FRAME: 0539**

ASSIGNMENT

For good and valuable consideration of which we acknowledge receipt, I/we:

(name)	(residence)
Andrew D. Odell	Kennett Square, Pennsylvania
Robert J. Scholz	Kennett Square, Pennsylvania
James A. Tangen	Parsippany, New Jersey
Gerald F. Davina	Parsippany, New Jersey
Joseph F. Giannelli	Parsippany, New Jersey
Susan Elaine Garcia	Paso Robles, California

hereby sell and assign to:

Electric Power Research Institute, Inc., 1300 West W. T. Harris Blvd., Charlotte, NC 28262

(hereinafter referred to as "Assignee"), its successors and assigns our entire respective rights, titles and interests in and to the invention and improvements invented and originated by us and described in the following United States Patent Application:

Serial No. (if known): 13/478,953

Filing Date (if known): May 23, 2012

Title: APPARATUS AND METHOD FOR OBTAINING GASEOUS HYDROGEN CONCENTRATIONS IN A MECHANICAL VACUUM PUMP GAS STREAM OF A BWR

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, reexaminations and reissues thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patent on said inventions and improvements resulting therefrom to said Assignee, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Assignee, I/we will communicate to said Assignee or its representatives or nominees any facts known to me/us respecting said inventions and improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee, its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention and its improvements in all countries.

WITNESS MY hand and seal this 13 day of June, 2012

  
Andrew D. Odell


NOTARY ACKNOWLEDGMENT

STATE OF New Mexico

COUNTY OF Santa Fe

I, Dachelle Burrows, a Notary Public for said County and State do hereby  
certify that Andrew Odell appeared before me personally and signed the  
aforementioned Assignment.

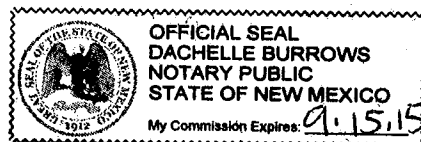
This the 13 day of June, 2012



Notary Public

My Commission Expires 9.15.15

SEAL



WITNESS MY hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2012

Robert J. Scholz

NOTARY ACKNOWLEDGMENT

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State do hereby  
certify that \_\_\_\_\_ appeared before me personally and signed the  
aforementioned Assignment.

This the \_\_\_\_\_ day of \_\_\_\_\_, 2012

\_\_\_\_\_  
Notary Public

My Commission Expires \_\_\_\_\_

SEAL

WITNESS MY hand and seal this 15 day of June, 2012

James A. Tangen

NOTARY ACKNOWLEDGMENT

STATE OF New Jersey

COUNTY OF Morris

I, Maria I. Algarra, a Notary Public for said County and State do hereby  
certify that James A. Tangen appeared before me personally and signed the  
aforementioned Assignment.

This the 15 day of June, 2012

Maria I. Algarra  
Notary Public

My Commission Expires August 22, 2016

SEAL

ASSIGNMENT

For good and valuable consideration of which we acknowledge receipt, I/we:

(name)  
Andrew D. Odell  
Robert J. Scholz  
James A. Tangen  
Gerald F. Davina  
Joseph F. Giannelli  
Susan Elaine Garcia

(residence)  
Kennett Square, Pennsylvania  
~~Kennett Square, Pennsylvania~~  
Parsippany, New Jersey  
Parsippany, New Jersey  
Parsippany, New Jersey  
Paso Robles, California

*Glen Mills, Pennsylvania*

*RJS 6/12/12*

hereby sell and assign to:

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(hereinafter referred to as "Assignee"), its successors and assigns our entire respective rights, titles and interests in and to the invention and improvements invented and originated by us and described in the following United States Patent Application:

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and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, reexaminations and reissues thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patent on said inventions and improvements resulting therefrom to said Assignee, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Assignee, I/we will communicate to said Assignee or its representatives or nominees any facts known to me/us respecting said inventions and improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee, its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention and its improvements in all countries.

WITNESS MY hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2012

Andrew D. Odell

NOTARY ACKNOWLEDGMENT

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State do hereby  
certify that \_\_\_\_\_ appeared before me personally and signed the  
aforementioned Assignment.

This the \_\_\_\_\_ day of \_\_\_\_\_, 2012

\_\_\_\_\_  
Notary Public

My Commission Expires \_\_\_\_\_

SEAL

WITNESS MY hand and seal this 12 day of June, 2012

Robert J. Scholz  
Robert J. Scholz

NOTARY ACKNOWLEDGMENT

STATE OF Pennsylvania

COUNTY OF York

I, Janet L. Wiley, a Notary Public for said County and State do hereby  
certify that Robert J. Scholz appeared before me personally and signed the  
aforementioned Assignment.

This the 12<sup>th</sup> day of June, 2012

Janet L. Wiley

Notary Public

My Commission Expires June 17, 2014

SEAL

**COMMONWEALTH OF PENNSYLVANIA**

Notarial Seal

Janet L. Wiley, Notary Public  
Peach Bottom Twp., York County  
My Commission Expires June 17, 2014  
Member, Pennsylvania Association of Notaries

WITNESS MY hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2012

James A. Tangen

NOTARY ACKNOWLEDGMENT

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State do hereby  
certify that \_\_\_\_\_ appeared before me personally and signed the  
aforementioned Assignment.

This the \_\_\_\_\_ day of \_\_\_\_\_, 2012

\_\_\_\_\_

Notary Public

My Commission Expires \_\_\_\_\_

SEAL

WITNESS MY hand and seal this 7 day of June, 2012

Gerald F. Davina  
Gerald F. Davina

NOTARY ACKNOWLEDGMENT

STATE OF New Jersey

COUNTY OF Morris

I, Maria I. Algarra, a Notary Public for said County and State do hereby  
certify that Gerald F. Davina appeared before me personally and signed the  
aforementioned Assignment.

This the 7 day of June, 2012

Maria I. Algarra

Notary Public

My Commission Expires August 22, 2016

SEAL

WITNESS MY hand and seal this 7 day of June, 2012

Joseph F. Giannelli  
Joseph F. Giannelli

NOTARY ACKNOWLEDGMENT

STATE OF New Jersey

COUNTY OF Morris

I, Maria I. Algarra, a Notary Public for said County and State do hereby  
certify that Joseph F. Giannelli appeared before me personally and signed the  
aforementioned Assignment.

This the 7 day of June, 2012

Maria I. Algarra

Notary Public

My Commission Expires August 22, 2016

SEAL

WITNESS MY hand and seal this 11 day of June, 2012

Susan Elaine Garcia  
Susan Elaine Garcia

NOTARY ACKNOWLEDGMENT

STATE OF New Mexico

COUNTY OF Santa Fe NM

I, Loyola P. Fischer, a Notary Public for said County and State do hereby  
certify that Susan Garcia appeared before me personally and signed the  
aforementioned Assignment.

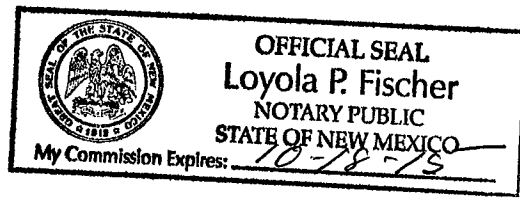
This the 11 day of June 11, 2012, 2012

Loyola P. Fischer

Notary Public

My Commission Expires 10-18-15

SEAL



WITNESS MY hand and seal this 11 day of June, 2012

NOTARY ACKNOWLEDGMENT

STATE OF New Mexico

COUNTY OF Santa Fe N.M.

I, Loyola P. Fischer, a Notary Public for said County and State do hereby  
certify that Susan Garcia appeared before me personally and signed the  
aforementioned Assignment.

This the \_\_\_\_\_ day of \_\_\_\_\_, 2012

Loyola P. Fischer

Notary

My Commission Expires 10-18-15

SEAL

