

01-23-2002

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(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼ ▼ ▼ ▼ ▼



101955405

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Bruce F. Monzyk
Anna Lee Y. Tonkovich
Yong Wang
David P. VanderWielAdditional name(s) of conveying party(ies) attached? ☒ Yes ☐ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: see page 2

2. Name and address of receiving party(ies)

Name: Battelle Memorial Institute

Internal Address: _____

JAN 1 2002

Street Address: 505 King Avenue

City: Columbus State: Ohio Zip: 43201

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

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

09/845,778

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Patent Administrator

Internal Address: _____

Street Address: 505 King Avenue

City: Columbus State: Ohio Zip: 43201-2693

6. Total number of applications and patents involved: 1

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

☐ Enclosed☒ Authorized to be charged to credit card.
PTO-2038 is attached.

8. Deposit account number: _____

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

William B. Richards

Name of Person Signing

Signature

11-27-01

Date

Total number of pages including cover sheet, attachments, and documents: 18

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

01/23/2002 JJALLAH2 00000009 09845778

01 FC:581

40.00 DP

PATENT
REEL: 012473 FRAME: 0930

**RECORDATION FORM COVER SHEET
PATENT ONLY**

09/845,778

1. Continuation – Additional names of conveying parties

Steven T. Perry
Sean P. Fitzgerald
Wayne W. Simmons
Jeffrey S. McDaniel
Albert E. Weller, Jr.
Chad M. Cucksey

3. Continuation – Nature of conveyance:

<u>Inventor</u>	<u>Execution Date</u>
Anna Lee Y. Tonkovich	Nov. 7, 2001
Bruce F. Monzyk	Oct. 26, 2001
Yong Wang	Nov. 1, 2001
David P. VanderWiel	Nov. 2, 2001
Steven T. Perry	Nov. 7, 2001
Sean P. Fitzgerald	Nov. 7, 2001
Wayne W. Simmons	Nov. 1, 2001
Jeffrey S. McDaniel	Nov. 1, 2001
Albert E. Weller, Jr.	Nov. 5, 2001
Chad M. Cucksey	Oct. 26, 2001

Bruce F. Monzyk
 Anna Lee Y. Tonkovich
 Yong Wang
 David P. VanderWiel
 Steven T. Perry
 Sean P. Fitzgerald
 Wayne W. Simmons
 Jeffrey S. McDaniel
 Albert E. Weller, Jr.
 Chad M. Cucksey
 to
 Battelle Memorial Institute

WHEREAS we, Bruce F. Monzyk, of Delaware, in the County of Union, and State of Ohio, Anna Lee Y. Tonkovich, of Marysville, in the County of Union, and State of Ohio, Yong Wang, of Richland, in the County of Benton, and State of Washington, David P. VanderWiel, of Columbus, in the County of Franklin, and State of Ohio, Steven T. Perry, of Galloway, in the County of Franklin, and State of Ohio, Sean P. Fitzgerald, of Columbus, in the county of Franklin, and State of Ohio, Wayne W. Simmons, of Dublin, in the county of Delaware, and State of Ohio, Jeffrey S. McDaniel, of Columbus, in the county of Franklin, and State of Ohio, Albert E. Weller, Jr., of Columbus, in the county of Franklin, and State of Ohio, and Chad M. Cucksey, of Columbus, in the county of Franklin, and State of Ohio have made certain inventions in **APPARATUS AND METHODS FOR HYDROGEN SEPARATION/PURIFICATION UTILIZING RAPIDLY CYCLED THERMAL SWING SORPTION**, the specification of which was filed on **April 30, 2001** as application serial no. **09/845,778**; and

WHEREAS, Battelle Memorial Institute, a corporation of Ohio, having a place of business at 505 King Avenue, Columbus, Ohio, herein called "ASSIGNEE", is desirous of acquiring our entire right, title, and interest in said invention and application therefor, and in any patent or patents to be obtained therefor;

NOW, THEREFORE, To All Whom It May Concern, be it known that, for and in consideration of the sum of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto the said Assignee, our entire right, title, and interest in and to the invention shown, described, or claimed therein, and the full and exclusive right and title to the said application executed by us, preparatory to obtaining Letters Patent of the United States therefor; and in and to any extensions, reissues, divisions, or renewals thereof; and we do hereby authorize and request the Commissioner of Patents or other proper Officer, to issue such Letters Patent, or any of them, to the said Assignee, as the assignee of our entire right, title, and interest in and to the same for the sole use and behoof of the said Assignee, and its successors or assigns.


And we further covenant and agree that we will, at the request and expense of the said Assignee, execute such other and further assurances of title as may be necessary or proper to fully convey the interest herein sought to be conveyed; that we will, at the request and expense of the said Assignee, execute such application papers as may be desired by the said Assignee for the filing of any division or renewal of the application herein conveyed, or for the reissues or extensions of any

Bruce F. Monzyk
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Chad M. Cucksey
to
Attelle Memorial Institute

Letters Patent that may be granted upon said application, and will execute such Supplemental Oaths and Preliminary Statements, or other papers as desired by the said Assignee.

And we further assign unto the said Assignee our whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Assignee to apply for patents therefor in its own name in countries where such procedure is proper and to claim the benefit of the International Convention and do agree to execute applications for the said invention in the several countries where it is necessary that the same be executed by the inventors, and to execute assignments of such applications and the patents to be obtained therefor to the said assignee, as well as all other necessary papers.

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Columbus,
Ohio this 26th day of October, 2001.


Bruce F. Monzyk

STATE OF OHIO)
COUNTY OF Franklin) ss

This 26th day of October, 2001, before me, a Notary Public in and for the County aforesaid, personally appeared Bruce F. Monzyk, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.

Debra D. Stearns
Notary Public

Notary Public

Notary Public
Debra Macdonald Stenosa



DEBRA D. STEVENSON
NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION EXPIRES MAY 29, 2002

12910A

PATENT
REEL: 012473 FRAME: 0934

Bruce F. Monzyk
 Anna Lee Y. Tonkovich
 Yong Wang
 David P. VanderWiel
 Steven T. Perry
 Sean P. Fitzgerald
 Wayne W. Simmons
 Jeffrey S. McDaniel
 Albert E. Weller, Jr.
 Chad M. Cucksey
 to
 Battelle Memorial Institute

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at
Columbus, Ohio, ~~Washington~~ this 1st day of Nov, 2001.

Yw 11/1/2001

Yong Wang

Ohio BPAK 11/1/01
 STATE OF ~~WASHINGTON~~)
 :SS
 COUNTY OF Franklin)

This 1st day of Nov, 2001, before me, a Notary Public in and for the County
 aforesaid, personally appeared **Yong Wang**, personally known to me and known to be the person
 described in and who executed the foregoing assignment and acknowledged the same to be his
 voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.

Brenda Block Koone
 Notary Public



BRENDA BLOCK KOONE
 NOTARY PUBLIC, STATE OF OHIO
 MY COMMISSION EXPIRES MAY 23, 2003


Bruce F. Monzyk
 Anna Lee Y. Tonkovich
 Yong Wang
 David P. VanderWiel
 Steven T. Perry
 Sean P. Fitzgerald
 Wayne W. Simmons
 Jeffrey S. McDaniel
 Albert E. Weller, Jr.
 Chad M. Cucksey
 to
 Battelle Memorial Institute

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at
COLUMBUS, Ohio this 2ND day of NOVEMBER, 2001.


 David P. VanderWiel

STATE OF OHIO)
) :SS
 COUNTY OF Franklin)

This 2nd day of Nov., 2001, before me, a Notary Public in and for the County
 aforesaid, personally appeared David P. VanderWiel, personally known to me and known to be
 the person described in and who executed the foregoing assignment and acknowledged the same
 to be his voluntary act and deed, and that he executed the same for the uses and purposes therein
 set forth.

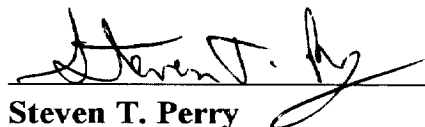

 Notary Public



BRENDA BLOCK KOONE
 NOTARY PUBLIC, STATE OF OHIO
 MY COMMISSION EXPIRES MAY 23, 2003

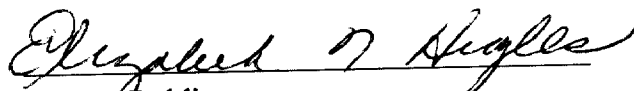
Bruce F. Monzyk
 Anna Lee Y. Tonkovich
 Yong Wang
 David P. VanderWiel
 Steven T. Perry
 Sean P. Fitzgerald
 Wayne W. Simmons
 Jeffrey S. McDaniel
 Albert E. Weller, Jr.
 Chad M. Cucksey
 to
 Battelle Memorial Institute

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at
West Jefferson, Ohio this 7 day of Nov., 2001.


 Steven T. Perry

STATE OF OHIO)
) :ss
 COUNTY OF Madison)

This 7 day of November, 2001, before me, a Notary Public in and for the County
 aforesaid, personally appeared Steven T. Perry, personally known to me and known to be the
 person described in and who executed the foregoing assignment and acknowledged the same to be
 his voluntary act and deed, and that he executed the same for the uses and purposes therein set
 forth.

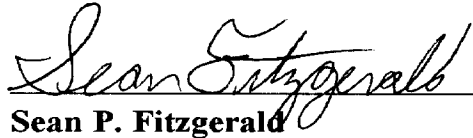

 Notary Public



ELIZABETH N. HUGHES
 Notary Public, State of Ohio
 My Commission Expires 11-29-03

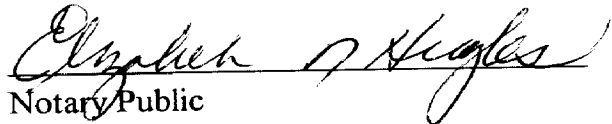
Bruce F. Monzyk
 Anna Lee Y. Tonkovich
 Yong Wang
 David P. VanderWiel
 Steven T. Perry
 Sean P. Fitzgerald
 Wayne W. Simmons
 Jeffrey S. McDaniel
 Albert E. Weller, Jr.
 Chad M. Cucksey
 to
 Battelle Memorial Institute

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at
West Jefferson, Ohio this 7th day of November, 2001.


 Sean P. Fitzgerald

STATE OF OHIO)
) :ss
 COUNTY OF Madison)

This 7th day of November, 2001, before me, a Notary Public in and for the County
 aforesaid, personally appeared Sean P. Fitzgerald, personally known to me and known to be the
 person described in and who executed the foregoing assignment and acknowledged the same to be
 his voluntary act and deed, and that he executed the same for the uses and purposes therein set
 forth.


 Notary Public



ELIZABETH N. HUGHES
 Notary Public, State of Ohio
 My Commission Expires 11-29-03

Bruce F. Monzyk
 Anna Lee Y. Tonkovich
 Yong Wang
 David P. VanderWiel
 Steven T. Perry
 Sean P. Fitzgerald
 Wayne W. Simmons
 Jeffrey S. McDaniel
 Albert E. Weller, Jr.
 Chad M. Cucksey
 to
 Battelle Memorial Institute

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at
Columbus, Ohio this 1 day of November, 2001.

Wayne W. Simmons
 Wayne W. Simmons

STATE OF OHIO)
)
 COUNTY OF Franklin) :SS

This 1st day of Nov., 2001, before me, a Notary Public in and for the County
 aforesaid, personally appeared Wayne W. Simmons, personally known to me and known to be the
 person described in and who executed the foregoing assignment and acknowledged the same to be
 his voluntary act and deed, and that he executed the same for the uses and purposes therein set
 forth.

Brenda Block Koone
 Notary Public



BREND A BLOCK KOONE
 NOTARY PUBLIC OF OHIO
 MY COMMISSION EXPIRES MAY 23, 2003

Bruce F. Monzyk
 Anna Lee Y. Tonkovich
 Yong Wang
 David P. VanderWiel
 Steven T. Perry
 Sean P. Fitzgerald
 Wayne W. Simmons
 Jeffrey S. McDaniel
 Albert E. Weller, Jr.
 Chad M. Cucksey
 to
 Battelle Memorial Institute

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Columbus,
 Ohio this 1 day of November 2001.


 Jeffrey S. McDaniel

STATE OF OHIO)
)
 COUNTY OF Franklin)
 :SS

This 1st day of Nov., 2001, before me, a Notary Public in and for the County
 aforesaid, personally appeared Jeffrey S. McDaniel, personally known to me and known to be the
 person described in and who executed the foregoing assignment and acknowledged the same to be
 his voluntary act and deed, and that he executed the same for the uses and purposes therein set
 forth.


 Notary Public



BRENDA BLACK KOONE
 NOTARY PUBLIC
 STATE OF OHIO
 MY 23, 2003

may 23, 2003
 BBK 11/1/01

Bruce F. Monzyk
 Anna Lee Y. Tonkovich
 Yong Wang
 David P. VanderWiel
 Steven T. Perry
 Sean P. Fitzgerald
 Wayne W. Simmons
 Jeffrey S. McDaniel
 Albert E. Weller, Jr.
 Chad M. Cucksey
 to
 Battelle Memorial Institute

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at
Columbus, Ohio this 5 day of Nov, 2001.

Albert E. Weller, Jr.
 Albert E. Weller, Jr.

STATE OF OHIO)
)
 COUNTY OF Franklin)
 :SS

This 5th day of Nov., 2001, before me, a Notary Public in and for the County
 aforesaid, personally appeared Albert E. Weller, personally known to me and known to be the
 person described in and who executed the foregoing assignment and acknowledged the same to be
 his voluntary act and deed, and that he executed the same for the uses and purposes therein set
 forth.

Brenda Block Koone
 Notary Public



BRENDA BLOCK KOONE
 NOTARY PUBLIC, STATE OF OHIO
 MY COMMISSION EXPIRES MAY 23, 2003

Bruce F. Monzyk
Anna Lee Y. Tonkovich
Yong Wang
David P. VanderWiel
Steven T. Perry
Sean P. Fitzgerald
Wayne W. Simmons
Jeffrey S. McDaniel
Albert E. Weller, Jr.
Chad M. Cucksey
to
Attelle Memorial Institute

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Columbus, Ohio this 26th day of October, 2001.

Chad M. Cucksey
Chad M. Cucksey

STATE OF OHIO)
COUNTY OF Franklin) ss

This 26th day of October, 2001, before me, a Notary Public in and for the County aforesaid, personally appeared Chad M. Cucksey, personally known to me and known to be the person described in and who executed the foregoing assignment and acknowledged the same to be his voluntary act and deed, and that he executed the same for the uses and purposes therein set forth.

Debra D. Stanger
Notary Public

Debra Macri Stevenson



DEBRA D. STEVENSON
NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION EXPIRES MAY 29, 2002