

Form PTO-1595 (Rev. 09/04)  
OMB No. 0651-0027 (exp. 6/30/2005)

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

## RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

### 1. Name of conveying party(ies)/Execution Date(s):

ROBERT M. ZUBRIN  
MARK H. BERGGREN  
DAN HARBER  
HEATHER ANN ROSE

Execution Date(s) June 12, 2006

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

### 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

### 2. Name and address of receiving party(ies)

Name: Pioneer Invention, Inc. d/b/a Pioneer Astronautics

Internal Address: \_\_\_\_\_

Street Address: 11111 W. 8th Ave., Unit A

City: Lakewood

State: Colorado

Country: U.S.A. Zip: 80215

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

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

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

11/422,486

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Paul J. Prendergast

Internal Address: Swanson & Bratschun, L.L.C.

Street Address: 1745 Shea Center Drive

Suite 330

City: Highlands Ranch

State: Colorado

Zip: 80129

Phone Number: 303-268-0066

Fax Number: 303-268-0065

Email Address: firm@sbiplaw.com

### 6. Total number of applications and patents involved:

1

### 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

### 8. Payment Information

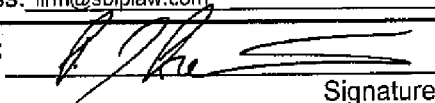
a. Credit Card Last 4 Numbers \_\_\_\_\_

Expiration Date \_\_\_\_\_

b. Deposit Account Number 19-5117

Authorized User Name Paul J. Prendergast

### 9. Signature:

  
Signature

8/24/06

Date

Paul J. Prendergast

Name of Person Signing

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

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

### **ASSIGNMENT**

WHEREAS, we, Robert M. Zubrin, residing at 4446 Parmalee Gulch Road, Indian Hills, Colorado 80454, Mark H. Berggren, residing at 30 Conifer Road, Golden, Colorado 80401, Dan Harber, residing at 4400 23<sup>rd</sup> Street Drive, Greeley, Colorado 80634, and Heather Ann Rose, residing at 1522 South Owens Street, Apartment F-235, Lakewood, Colorado 80232 (hereinafter, individually and collectively the "Assignor"), have invented certain new and useful systems, devices, and methods disclosed and described in a utility application for Letters Patent in the United States ("U.S."), titled "Apparatus and Method for Producing Lift Gas and Uses Thereof," which can be identified in the United States Patent and Trademark Office ("USPTO") by Application No. 11/422,486, filed on June 6, 2006 (the "Utility Application") with attorney docket no. 187747/US; and

WHEREAS, Assignor desires to assign any and all right, title and interest to said Utility Application, and any provisional, non-provisional, continuation, continuation-in-part, divisional, international, foreign, regional and convention applications corresponding thereto, and any and all Letters Patent of the United States and countries and regions foreign thereto which may grant or have granted thereto or be lodged in relation thereto, any reissue or reexamination thereof or to be obtained therefor, any renewals, or substitutes thereof, and any and all priority rights or priority claims, International Convention rights, any and all rights to collect past damages for infringement of any and all Letters Patent of the United States and countries and regions foreign thereto which may be published, which may grant, or have granted thereto or be lodged in relation thereto, and other benefits accruing to or to accrue to Assignor with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto (the "Patent Rights");

WHEREAS, Pioneer Invention, Inc. d/b/a Pioneer Astronautics, a corporation organized and existing under the laws of the State of Colorado, and having its principal place of business at 11111 W. 8<sup>th</sup> Ave., Unit A, Lakewood, Colorado 80215 (the "Assignee"), desires to acquire any and all, right, title, and interest of Assignor in and to the invention(s), the Patent Rights, and in, to, and under any and all Letters Patent to be obtained therefor;

NOW THEREFORE, for the sum of \$1.00 and other good and valuable consideration to Assignor in hand paid, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, and transfer and by these presents does hereby sell, assign and transfer to the said Assignee, and said Assignee's legal representatives, successors and assigns, any and all of the entire right, title and interest in and to the invention(s), Patent Rights, and any and all Letters Patent to be obtained therefor;

UPON SAID CONSIDERATION, the Assignor hereby covenants and agrees with the said Assignee that it will not execute any writing or do any act whatsoever conflicting with these presents, and that it will, at any time upon request, without further or additional consideration, but at the expense of the said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, provisionals, non-provisionals, continuations, continuations-in-part,

Docket No. 187747/US

continuing prosecutions, divisionals, renewals, reissues, reexamined or extended Letters Patent of the United States, or of any and all foreign countries, on said Patent Rights, and execute confirmatory assignments or acknowledgments of this assignment as necessary for full enjoyment of the Patent Rights and for recording in foreign patent offices, and in enforcing any rights or choses in action accruing as a result of such Patent Rights, by giving testimony in any proceedings or transactions involving such Patent Rights, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties;

UPON SAID CONSIDERATION, Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey any and all right, title, and interest in the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Patent Rights to a third party;

ASSIGNOR HEREBY AUTHORIZES said Assignee, its successors, and assigns, or anyone it may properly designate, to apply for Letters Patent in the U.S. and any and all foreign countries and regions, in its own name if desired, and additionally to claim priority to the filing date of the Utility Application and otherwise take advantage of the provisions of any international conventions.

ASSIGNOR HEREBY AUTHORIZES Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the application number, filing date, and title of the Utility Application once known.

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

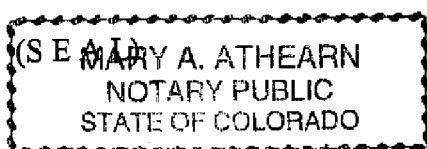
Date: June 12, 2006

By: [Signature]

Robert M. Zubrin

STATE OF Colorado )  
 ) ss.  
COUNTY OF Jefferson )

On this 12<sup>th</sup> day of June, 2006, before me a Notary Public in and for said county, personally appeared Robert M. Zubrin who executed the foregoing instrument and acknowledged that he signed, sealed and delivered the same instrument as a free and voluntary act for the purposes and considerations therein expressed.



My Commission Expires 12/10/2008

Mary A. Athearn  
Notary Public

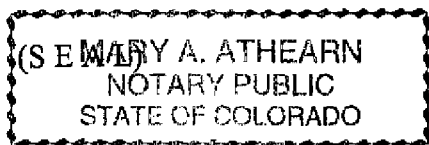
My commission expires: 12/10/08

Docket No. 187747/US

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

Date: June 12, 2006By: Mark H. Berggren  
Mark H. BerggrenSTATE OF Colorado )  
 ) ss.  
COUNTY OF Jefferson )

On this 12<sup>th</sup> day of June, 2006, before me a Notary Public in and for said county, personally appeared Mark H. Berggren who executed the foregoing instrument and acknowledged that he signed, sealed and delivered the same instrument as a free and voluntary act for the purposes and considerations therein expressed.



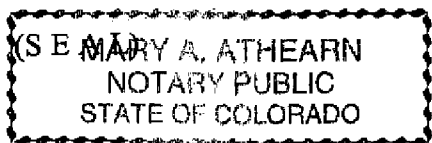
My Commission Expires 12/10/2008

Mary A. Athearn  
Notary PublicMy commission expires: 12/10/08

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

Date: June 12, 2006By: Dan Harber  
Dan HarberSTATE OF Colorado )  
 ) ss.  
COUNTY OF Jefferson )

On this 12<sup>th</sup> day of June, 2006, before me a Notary Public in and for said county, personally appeared Dan Harber who executed the foregoing instrument and acknowledged that he signed, sealed and delivered the same instrument as a free and voluntary act for the purposes and considerations therein expressed.



My Commission Expires 12/10/2008

Mary A. Athearn  
Notary PublicMy commission expires: 12/10/08

Docket No. 187747/US

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

Date: 6-12-06By: Heather Ann Rose  
Heather Ann RoseSTATE OF Colorado )  
COUNTY OR Teller ) ss.

On this 12 day of June, 2006, before me a Notary Public in and for said county, personally appeared Heather Ann Rose who executed the foregoing instrument and acknowledged that he signed, sealed and delivered the same instrument as a free and voluntary act for the purposes and considerations therein expressed.

(S E A L)

B. J. Miller  
Notary PublicMy commission expires: **MY COMMISSION EXPIRES**  
**SEPTEMBER 1, 2009**

Docket No. 187747/US

**ACCEPTANCE OF ASSIGNMENT**

The Assignee hereby acknowledges and accepts the foregoing assignment of rights by Assignor.

IN TESTIMONY WHEREOF, the Assignee, by its undersigned officer, confirms its acceptance on the date and in the place set forth below.

Pioneer Invention, Inc. d/b/a Pioneer Astronautics

Date: June 12, 2006

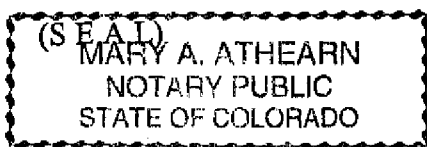
By: [Signature]

Name: Robert M. Zubrin

Title: President

STATE OF Colorado )  
 ) ss.  
COUNTY OF Jefferson )

On this 12<sup>th</sup> day of June, 2006, before me a Notary Public in and for said county, personally appeared Robert M. Zubrin the above-mentioned representative of the Assignee, Pioneer Invention, Inc. d/b/a Pioneer Astronautics, who executed the foregoing patent Assignment, and represented and acknowledged that he/she had the requisite corporate authority to execute and accept this patent Assignment and the same was executed as a free act and deed.



My Commission Expires 12/10/2008

My commission expires: 12/10/08

Mary A. Athearn  
Notary Public

**FAX COVER SHEET**

The information contained in this facsimile message, if a client of this firm is a named addressee, or the message is otherwise intended for a client, is presumptively legally privileged and confidential information. If you are not a named addressee, or if there is any reason to believe that you may have received this message in error, (1) do not read the message below; (2) do not distribute or copy this facsimile; and (3) please immediately call us collect at the number of the sender below.

DATE:	<i>August 24, 2006</i>	TOTAL # OF PAGES: (INCLUDING THIS COVER SHEET)	<i>7</i>
TO:	ASSIGNMENT BRANCH	FAX #:	(571) 273-0140
FIRM NAME:	U.S. Patent and Trademark Office	PHONE #:	(703) 308-9723
FROM:	Paul J. Prendergast	FAX #:	(303) 268-0066
PHONE #:	303-268-0066	EMAIL:	pprendergast@sbiplaw.com

**COMMENTS:****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventor(s):	ROBERT M. ZUBRIN et al.	Atty. Docket No.:	187747/US
App. No.:	11/422,486	Confirmation No.:	4287
Filing Date:	June 6, 2006	Group Art Unit:	Not Yet Assigned
Title:	APPARATUS AND METHOD FOR PRODUCING LIFT GAS AND USES THEREOF		

**CERTIFICATE OF TRANSMISSION**

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING FACSIMILE TRANSMITTED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE  
FAX NO. (571) 273-0140, ON *August 24*, 2006.

*Sue Devlin*  
(PERSON MAKING THE TRANSMISSION OR ATTORNEY OF RECORD)

**Attached Correspondence:**

1. Recordation Form cover Sheet
2. Executed Assignment

Original will be sent via:

☐

Mail

☐

Messenger

☐

Air Courier

☒

Will not be sent

PLEASE CONTACT SUE DEVLIN AT (303) 268-0066 IF THIS TRANSMISSION IS INCOMPLETE OR CANNOT BE READ.

Reference#

*18774/US***PATENT****RECORDED: 08/24/2006****REEL: 018176 FRAME: 0502**