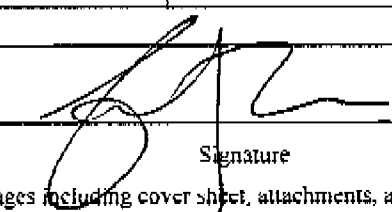


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RECORDATION FORM COVER SHEET PATENTS ONLY

Docket No.: 0100.2016-010

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): PAUL E. DRESENS / January 11, 2007 GARY S. ASH / January 7, 2007 ALLEN J. BARTLETT / January 2, 2007 BRUCE ANDEEN / January 4, 2007 Y. ROBERTO THAN / January 30, 2007 Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		2. Name and address of receiving party(ies) Name: <u>BROOKS AUTOMATION, INC.</u> Internal Address: _____ Street Address: <u>15 ELIZABETH DRIVE</u> City: <u>CHELMSFORD</u> State: <u>MA</u> Country: <u>USA</u> Zip: <u>01824</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance. <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____		4. Application number(s) or patent number(s): A. Patent Application No.(s) <u>11/590,673</u> B. Patent No.(s) <input type="checkbox"/> This document is being filed together with a new application. Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>JAMES M. SMITH, ESQ.</u> Internal Address: _____ <u>HAMILTON, BROOK, SMITH & REYNOLDS, P.C.</u> Street Address: <u>530 VIRGINIA ROAD, P.O. BOX 9133</u> City: <u>CONCORD</u> State: <u>MA</u> ZIP: <u>01742-9133</u> Phone No: <u>978-341-0036</u> Fax No: <u>978-341-0136</u> Email Address: <u>JAMES.SMITH@HBSR.COM</u>		6. Total number of applications and patents involved. <u>1</u> 7. Total Fee (37 CFR 1.21(h) & 3.41) <u>\$40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorization to charge deposit account number 08-0380 <input type="checkbox"/> Previously submitted - Doc ID No [] <input checked="" type="checkbox"/> Authorized to charge any deficiencies or credit any overpayment to deposit account number 08-0380 Do not attach a copy of this page if paying by deposit account and filing via facsimile Attach a copy of this page if paying by deposit account and filing via mail	
8. Name of Person Signing <u>F. James Coe</u>		Signature  Date <u>February 6, 2007</u>	
Total number of pages including cover sheet, attachments, and documents: <u>18</u>			

PATENT

Docket No.: 0100.2016-010

CONTINUATION OF BOX 1

JOSEPH CHOPY, JR.

January 29, 2007

PATENT

Docket No. 0100.2016-010

JointASSIGNMENT

WHEREAS, we, **Paul E. Dresens, Gary S. Ash, Allen J. Bartlett, Bruce Andeen, Y. Roberto Than, and Joseph Chopy, Jr.**, have invented a certain improvement in **HELIUM MANAGEMENT CONTROL SYSTEM** described in an application for Patent,

- ☐ the specification of which is about to be filed in the United States Patent Office *(use for utility (37 CFR § 1.53(b)) and design filings only)*;
- ☐ is about to be filed in the United States Patent Office as a Provisional Application;
- ☒ the specification of which is United States Application No. **11/590,673**, filed **October 31, 2006**;
- ☐ the specification of which is a Patent Cooperation Treaty Application, International Application No. [], filed [], which designates the United States of America [and assigned United States Application No. []];
- ☐ which was patented under United States Patent No. [].

WHEREAS, **Brooks Automation, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **15 Elizabeth Drive, Chelmsford, MA 01824** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

PATENT

-2-

Docket No. 0100.2016-010

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____



Paul E. Dresens

State/Commonwealth

of MassachusettsCounty of Middlesex**PLEASE
& I**

On this 11th day of January, 20 07, before me, the undersigned notary public, personally appeared **Paul E. Dresens**,



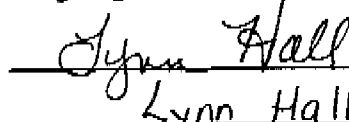
personally known to me, or



proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

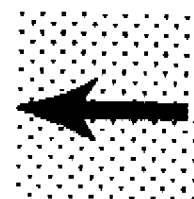
(SEAL)



Notary Public

Lynn Hall

(print name)

My Commission expires 12 / 7 / 2012**PATENT**

-3-

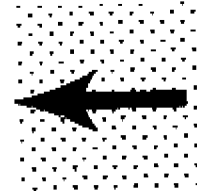
Docket No. 0100.2016-010

Inventor's Signature: _____

Gary S. Ash

State/Commonwealth
of MASSACHUSETTS
County of BRISTOLPLEASE
& DOn this 7TH day of JANUARY, 2007, before me, the undersigned
notary public, personally appeared Gary S. Ash,☐ personally known to me, or☒ proved to me through satisfactory evidence of identification, which wasMASS. STATE LICENSEto be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

JAMES J. DILISIO
Notary Public
Commonwealth of Massachusetts
My Commission Expires
Dec. 24, 2010James J. Dilisio Notary Public
JAMES J DILISIO (print name)My Commission expires 12/24/2010

Inventor's Signature: _____

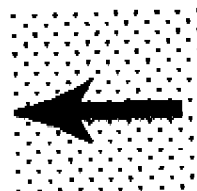
Allen J. Bartlett

State/Commonwealth
of Massachusetts
County of Middlesex

PLEASE

On this 2nd day of January, 2007, before me, the undersigned
notary public, personally appeared Allen J. Bartlett,☐ personally known to me, or☒ proved to me through satisfactory evidence of identification, which wasdriver's license & company badgeto be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Collette Rita Piche Notary Public
Collette Rita Piche (print name)My Commission expires 08/22/2008

PATENT

-4-

Docket No. 0100.2016-010

Inventor's Signature: _____

Bruce Andeen

Bruce Andeen

State/Commonwealth

of TennesseeCounty of ShelbyPLEASE
& I

On this 4 day of January, 2007, before me, the undersigned notary public, personally appeared Bruce Andeen,

☐

personally known to me, or

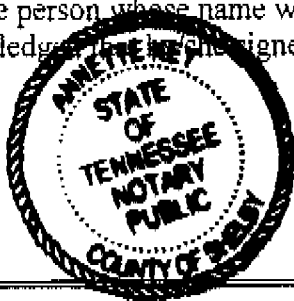
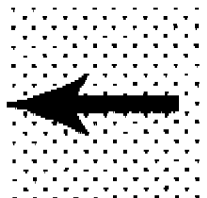
☒

proved to me through satisfactory evidence of identification, which was

TN Drivers License

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Annette Key Notary PublicAnnette Key (print name)My Commission expires 05/12/2010

Inventor's Signature: _____

Yatming R. Than

State/Commonwealth

of _____

County of _____

PLEASE
&

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared Yatming R. Than,

☐

personally known to me, or

☐

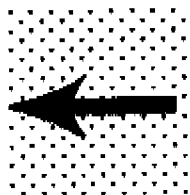
proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public_____
(print name)

My Commission expires ____/____/____



PATENT

-5-

Docket No. 0100.2016-010

Inventor's Signature: _____

Joseph Chopy, Jr.

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned
 notary public, personally appeared **Joseph Chopy, Jr.**,

☐ personally known to me, or

☐ proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and
 acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

_____ Notary Public

_____ (print name)

My Commission expires ____/____/____

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PATENT

Docker No. 0100.2016-010

JointASSIGNMENT

WHEREAS, we, **Paul E. Dresens, Gary S. Ash, Allen J. Bartlett, Bruce Andeen, Y. Roberto Than, and Joseph Chopy, Jr.**, have invented a certain improvement in **HELIUM MANAGEMENT CONTROL SYSTEM** described in an application for Patent,

- ☐ the specification of which is about to be filed in the United States Patent Office *(use for utility (37 CFR § 1.53(b)) and design filings only)*;
- ☐ is about to be filed in the United States Patent Office as a Provisional Application,
- ☒ the specification of which is United States Application No. **11/590,673**, filed **October 31, 2006**;
- ☐ the specification of which is a Patent Cooperation Treaty Application, International Application No. [], filed [], which designates the United States of America [and assigned United States Application No. []];
- ☐ which was patented under United States Patent No. [].

WHEREAS, **Brooks Automation, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **15 Elizabeth Drive, Chelmsford, MA 01824** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

PATENT

-2-

Docket No. 0100.2016-010

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____

Paul E. Dresens

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Paul E. Dresens**,



personally known to me, or



proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

PATENT

-3-

Docket No. 0100.2016-010

Inventor's Signature: _____

Gary S. Ash

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared **Gary S. Ash**,

☐ personally known to me, or

☐ proved to me through satisfactory evidence of identification, which was _____

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public_____
(print name)

My Commission expires ____/____/____

Inventor's Signature: _____

**Allen J. Bartlett**

State/Commonwealth

of MassachusettsCounty of Middlesex

On this 2nd day of January, 2007, before me, the undersigned notary public, personally appeared **Allen J. Bartlett**,

☐ personally known to me, or

☒ proved to me through satisfactory evidence of identification, which was
driver's license & company badge

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Collette Rita Piche Notary PublicCollette Rita Piche (print name)My Commission expires 08/22/2008

PATENT

-4-

Docket No. 0100.2016-010

Inventor's Signature: _____

Bruce Andeen

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned
notary public, personally appeared **Bruce Andeen**,

☐ personally known to me, or☐ proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public_____
(print name)

My Commission expires ____/____/____

Inventor's Signature: _____

Yatming R. Than

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned
notary public, personally appeared **Yatming R. Than**,

☐ personally known to me, or☐ proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed

(SEAL)

Notary Public_____
(print name)

My Commission expires ____/____/____

PATENT

-5-

Docket No. 0100.2016-010

Inventor's Signature: _____

Joseph Chopy, Jr.

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned
notary public, personally appeared **Joseph Chopy, Jr.**,

☐ personally known to me, or☐ proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public_____
(print name)

My Commission expires ____/____/____

@PFDesktop\ODMA\MHODMA\HBSRF Site,manage,064935.1

PATENT

JointASSIGNMENT

WHEREAS, we, **Paul E. Dresens, Gary S. Ash, Allen J. Bartlett, Bruce Andeen, Y. Roberto Than, and Joseph Chopy, Jr.**, have invented a certain improvement in **HELIUM MANAGEMENT CONTROL SYSTEM** described in an application for Patent,

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- ☐ is about to be filed in the United States Patent Office as a Provisional Application;
- ☒ the specification of which is United States Application No. **11/590,673**, filed **October 31, 2006**;
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NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its

PATENT

successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____
Paul E. Dresens

State/Commonwealth
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared Paul E. Dresens,

☐

personally known to me, or

☐

proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public
(print name)

My Commission expires ____/____/____

PATENT

Inventor's Signature: _____

Gary S. Ash

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned
notary public, personally appeared Gary S. Ash,



personally known to me, or



proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

Inventor's Signature: _____

Allen J. Bartlett

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned
notary public, personally appeared Allen J. Bartlett,



personally known to me, or



proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

PATENT

Docket No.: 0100 2016-010

Inventor's Signature: _____

Bruce Andeen

State/Commonwealth

of _____

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared Bruce Andeen,



personally known to me, or



proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

Inventor's Signature: _____

Y. Roberto Than

State/Commonwealth

of NEW YORKCounty of SUFFOLK

On this 30 day of Jan, 2007, before me, the undersigned notary public, personally appeared Y. Roberto Than,



personally known to me, or



proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

PETER PAGANO

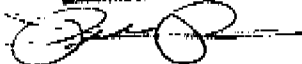
Notary Public

(print name)

My Commission expires 11 / 1 / 08

PETER PAGANO
Notary Public State of New York
No. 01PA011780

Qualified in Suffolk County
Commission Expires 11/01/08



PATENT

Docket No.: 0100.2016-010

Inventor's Signature: _____

Joseph Chopy Jr.

State/Commonwealth

of MassachusettsCounty of Middlesex

On this 29th day of January, 2007, before me, the undersigned
notary public, personally appeared Joseph Chopy, Jr.,



personally known to me, or



proved to me through satisfactory evidence of identification, which was

Company badge, driver's license

to be the person whose name was signed on the foregoing instrument in my presence, and
acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Collette Rita Piche Notary PublicCOLLETTE RITA PICHE (print name)My Commission expires 08/22/2008

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PATENT