

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4058131

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PAUL E. DRESENS	01/11/2007
GARY S. ASH	01/07/2007
ALLEN J. BARTLETT	01/02/2007
BRUCE ANDEEN	01/04/2007
Y. ROBERTO THAN	01/30/2007
JOSEPH CHOPY JR.	01/29/2007
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BROOKS AUTOMATION, INC.
<b>Street Address:</b>	15 ELIZABETH DRIVE
<b>City:</b>	CHELMSFORD
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01824
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15143125
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(978)341-0136
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	9783410036
<b>Email:</b>	rhonda.scherer@hbsr.com
<b>Correspondent Name:</b>	JAMES M. SMITH
<b>Address Line 1:</b>	HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
<b>Address Line 2:</b>	530 VIRGINIA ROAD, P.O. BOX 9133
<b>Address Line 4:</b>	CONCORD, MASSACHUSETTS 01742-9133
<b>ATTORNEY DOCKET NUMBER:</b>	0100.2016-016
<b>NAME OF SUBMITTER:</b>	RHONDA M. SCHERER
<b>SIGNATURE:</b>	/Rhonda M. Scherer/
<b>DATE SIGNED:</b>	09/19/2016

**Total Attachments: 15**

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ASSIGNMENT

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;

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 Massachusetts

County of Middlesex

On this 11<sup>th</sup> 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)

Lynn Hall

Notary Public

Lynn Hall

(print name)

My Commission expires 12 / 7 / 2012

PATENT

REEL: 039782 FRAME: 0109

Docket No. 0100.2016-010

Inventor's Signature: \_\_\_\_\_

Gary S. Ash  
Gary S. Ash

State/Commonwealth  
of MASSACHUSETTS  
County of BRISTOL

On this 7<sup>TH</sup> 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 was  
MASS. STATE 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)



JAMES J. DILISIO  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
Dec. 24, 2010

James J. Dilisio Notary Public  
JAMES J DILISIO (print name)

My Commission expires 12 / 24 / 2010

Inventor's Signature: \_\_\_\_\_

Allen J. Bartlett  
Allen J. Bartlett

State/Commonwealth  
of Massachusetts  
County 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 Piché Notary Public  
Collette Rita Piché (print name)

My Commission expires 08 / 22 / 2008

Docket No. 0100.2016-010

Inventor's Signature: Bruce Andeen  
Bruce Andeen

State/Commonwealth  
of Tennessee  
County of Shelby

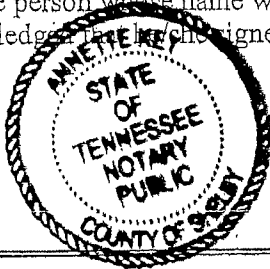
On this 4 day of January, 2007, before me, the undersigned  
notary public, personally appeared Bruce Andeen,

☐ 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 Public

Annette Key (print name)

My Commission expires 05/12/2010

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 \_\_\_\_/\_\_\_\_/\_\_\_\_

---

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 \_\_\_\_/\_\_\_\_/\_\_\_\_

---

**COPY FOR CONTINUING Joint  
APPLICATION**

ASSIGNMENT

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;



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 \_\_\_\_/\_\_\_\_/\_\_\_\_

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*

**Allen J. Bartlett**

State/Commonwealth  
of Massachusetts  
County 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 Public

Collette Rita Piche' (print name)

My Commission expires 08/22/2008

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 \_\_\_\_/\_\_\_\_/\_\_\_\_

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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**COPY FOR CONTINUING Joint  
APPLICATION**

ASSIGNMENT

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**;
- ☐ 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. [ ].

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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;

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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 \_\_\_\_/\_\_\_\_/\_\_\_\_

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 \_\_\_\_/\_\_\_\_/\_\_\_\_

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 YORK  
County of SUFFOLK

On this 30 day of Jan, 20 07, before me, the undersigned  
notary public, personally appeared Y. Roberto Than,

☐ personally known to me, or

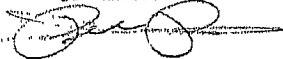
☒ proved to me through satisfactory evidence of identification, which was

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. 01PAR11790  
Qualified in Suffolk County  
Commission Expires 11/01/2008





Inventor's Signature: \_\_\_\_\_

*Joseph Chopy Jr.*  
Joseph Chopy, Jr.

State/Commonwealth

of Massachusetts

County of Middlesex

On this 29<sup>th</sup> 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 Public

Collette Rita Piche (print name)

My Commission expires 08/22/2008