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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4058131

		NEW ASSIGNMENT	
ATURE OF CONVEYA	NCE:	ASSIGNMENT	
CONVEYING PARTY	ΑΤΑ		
		Name	Execution Date
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	. ROBERTO THAN		01/30/2007
JOSEPH CHOPY JR.			01/29/2007
RECEIVING PARTY D	ΑΤΑ		
Name:	BROO	KS AUTOMATION, INC.	
Street Address:	15 ELI.	ZABETH DRIVE	
City:	CHELN	/ISFORD	
State/Country:	MASS	MASSACHUSETTS	
Postal Code:	01824		
PROPERTY NUMBERS		Number	
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		15143125	
Application Number:	DATA	15143125	
Application Number:	DATA	(978)341-0136	
Application Number: CORRESPONDENCE Fax Number: Correspondence will	be sent to	(978)341-0136 o the e-mail address first; if that is unsu	
Application Number: CORRESPONDENCE Fax Number: Correspondence will	be sent to	(978)341-0136	
Application Number: CORRESPONDENCE Fax Number: Correspondence will I using a fax number, if Phone:	be sent to	(978)341-0136 O the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent	
Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will I using a fax number, if</i> Phone: Email: Correspondent Name:	be sent to provideo	(978)341-0136 b the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 9783410036 rhonda.scherer@hbsr.com JAMES M. SMITH	via US Mail.
Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will I using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1:	be sent to provideo	(978)341-0136 b the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 9783410036 rhonda.scherer@hbsr.com JAMES M. SMITH HAMILTON, BROOK, SMITH & REYNOL	via US Mail.
Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will I using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	be sent to provideo	(978)341-0136 b the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 9783410036 rhonda.scherer@hbsr.com JAMES M. SMITH HAMILTON, BROOK, SMITH & REYNOL 530 VIRGINIA ROAD, P.O. BOX 9133	via US Mail. DS, P.C.
Application Number: CORRESPONDENCE Fax Number: Correspondence will I using a fax number, if	be sent to provideo	(978)341-0136 b the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 9783410036 rhonda.scherer@hbsr.com JAMES M. SMITH HAMILTON, BROOK, SMITH & REYNOL	<i>via US Mail.</i> DS, P.C.
Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will I</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	be sent to provideo	(978)341-0136 b the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 9783410036 rhonda.scherer@hbsr.com JAMES M. SMITH HAMILTON, BROOK, SMITH & REYNOL 530 VIRGINIA ROAD, P.O. BOX 9133 CONCORD, MASSACHUSETTS 01742-9	<i>via US Mail.</i> DS, P.C.
Application Number: CORRESPONDENCE Fax Number: Correspondence will I using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	be sent to provided	(978)341-0136 D the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 9783410036 rhonda.scherer@hbsr.com JAMES M. SMITH HAMILTON, BROOK, SMITH & REYNOL 530 VIRGINIA ROAD, P.O. BOX 9133 CONCORD, MASSACHUSETTS 01742-9	<i>via US Mail.</i> DS, P.C.
Application Number: CORRESPONDENCE Fax Number: <i>Correspondence will I</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET N	be sent to provided	(978)341-0136 b the e-mail address first; if that is unsu d; if that is unsuccessful, it will be sent 9783410036 rhonda.scherer@hbsr.com JAMES M. SMITH HAMILTON, BROOK, SMITH & REYNOL 530 VIRGINIA ROAD, P.O. BOX 9133 CONCORD, MASSACHUSETTS 01742-9 0100.2016-016	via US Mail. DS, P.C.

Total Attachments: 15

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Docket No. 0100.2016-010 COPY FOR CONTINUING APPLICATION Joint

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;
- [X] 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;

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: Oan & D
Paul E. Dresens
State/Commonwealth of <u>Massachuse#s</u> County of <u>Middlesex</u>
On this $(/ - day of January, 20 07, before me, the undersigned notary public, personally appeared Paul E. Dresens,$
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) <u>April All</u> Notary Public <u>Lynn Hall</u> (print name)
My Commission expires 12/7/2012

-3-
Docket No. 0100.2016-010
Inventor's Signature:
State/Commonwealth of Massachuserrs
County of BRISTOL
On this <u>1TH</u> day of <u>January</u> , 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
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 Doc. 24, 2010 My Commission expires 13 /24 / 2010
Inventor's Signature:
State/Commonwealth of <u>Massachusetts</u> County of <u>Middlesser</u>
On this day of, 20_07_, before me, the undersigned notary public, personally appeared Allen JOBartlett,
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) <u>Collette Rita Piche</u> Notary Public Collette <u>Rita Piche</u> (print name)
My Commission expires <u>08 122 12008</u>

<u> </u>
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07, before me, the undersigned
ification, which was
nstrument in my presence, and as his/her free act and deed.
Key Notary Public Key (print name)
Key (print name)
ires 05/12/2010
0 1 Construct the second environment
0, before me, the undersigned
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tification, which was
instrument in my presence, and t as his/her free act and deed.
Notary Public
(print name)
pires/

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			Docket No. 0100.2016-01
Inventor's Signature:	Joseph C	honry Tr	
State/Commonwealth	Juseph C.	uopy, or,	
of			
County of			
	av of	. 20	. before me. the undersigned
On this d			; oorore me, are anacherere
On this d notary public, personally	appeared Joseph Chop	y, Jr.,	
On this d notary public, personally	appeared Joseph Chop	y, Jr.,	
On thisd notary public, personally personally knowr		y, Jr.,	
personally knowr	a to me, or		
personally knowr			
personally knowr	a to me, or		
personally known proved to me thro to be the person whose n	n to me, or ough satisfactory evidence ame was signed on the f	ce of identifica	ution, which was
personally known proved to me thro to be the person whose n	n to me, or ough satisfactory evidence ame was signed on the f	ce of identifica	ution, which was
personally known proved to me thro to be the person whose n acknowledged that he/sh	n to me, or ough satisfactory evidence ame was signed on the f e signed the foregoing in	ce of identifica Coregoing instr nstrument as h	ument in my presence, and is/her free act and deed.
personally known proved to me thro	n to me, or ough satisfactory evidence ame was signed on the f e signed the foregoing is	ce of identifica oregoing instr nstrument as h	ution, which was ument in my presence, and is/her free act and deed. Notary Public
to be the person whose n acknowledged that he/sh	a to me, or ough satisfactory evidence ame was signed on the f e signed the foregoing is	ce of identification of identification of identification of the second sec	ument in my presence, and is/her free act and deed.

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ASSIGNMENT

COPY FOR CONTINUING<u>Joint</u> APPLICATION

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;
- [X] 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;

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.

	Paul E. Dresens
State/Commonwea of	lth
County of	
On this	day of, 20, before me, the undersigned
notary public, pers	onally appeared Paul E. Dresens,
personally	known to me, or
proved to n	ne through satisfactory evidence of identification, which was
to be the person w acknowledged that	hose name was signed on the foregoing instrument in my presence, and t he/she signed the foregoing instrument as his/her free act and deed.
acknowledged that	hose name was signed on the foregoing instrument in my presence, and t he/she signed the foregoing instrument as his/her free act and deed.
to be the person w acknowledged that (SEAL)	t he/she signed the foregoing instrument as his/her free act and deed.

nventor's Signature:	Gary S. Ash
State/Commonwealth of	
County of	
On this day of lotary public, personally appeared G	, 20, before me, the undersigned Gary S. Ash,
personally known to me, or	
proved to me through satisfa	ctory evidence of identification, which was
to be the person whose name was signed that he/she signed that	gned on the foregoing instrument in my presence, and e foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
· · · · · · · · · · · · · · · · · · ·	(print name)
	My Commission expires//
Inventor's Signature:	4 Bartlett
State/Commonwealth of <u>Mass achusetts</u> County of <u>Middlessey</u>	Allen J, Bartlett
On this <u>2</u> day of <u>a</u> notary public, personally appeared	\mathcal{M} \mathcal{A} \mathcal{A} , 20 <u>07</u> , before me, the undersigned Allen J \mathcal{A} Bartlett,
personally known to me, or	
proved to me through satisfi drever's license	actory evidence of identification, which was
to be the person whose name was s	igned on the foregoing instrument in my presence, and
acknowledged that he/she signed th	to to to to the total and the total and the total and the total.
acknowledged that he/she signed th (SEAL)	<u>Collette Rita Piche</u> Notary Public <u>Collette Rita Piche</u> (print name)

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PATENT REEL: 039782 FRAME: 0115

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Inventor's Signature:	
State/Commonwealth of County of	Bruce Andeen
On this day of notary public, personally appeared Br	, 20, before me, the undersigned uce Andeen,
personally known to me, or	
· . · ·	ory evidence of identification, which was
to be the person whose name was sign	ned on the foregoing instrument in my presence, and foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	
State/Commonwealth of County of	Yatming R. Than
On this day of notary public, personally appeared Y	, 20, before me, the undersigned atming R. Than,
personally known to me, or	• •
proved to me through satisfac	ctory evidence of identification, which was
to be the person whose name was sig acknowledged that he/she signed the	med on the foregoing instrument in my presence, and foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//

PATENT REEL: 039782 FRAME: 0116

-4-

Inventor's Signature:	Joseph Chopy, Jr.
State/Commonwealth of County of	
On this day of	f, 20, before me, the undersigned
notary public, personally app	eared Joseph Chopy, Jr.,
to be the person whose name	ne, or satisfactory evidence of identification, which was was signed on the foregoing instrument in my presence, and gned the foregoing instrument as his/her free act and deed.
proved to me through	satisfactory evidence of identification, which was
to be the person whose name acknowledged that he/she sig	satisfactory evidence of identification, which was was signed on the foregoing instrument in my presence, and gned the foregoing instrument as his/her free act and deed.

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ASSIGNMENT

COPY FOR CONTINUING Joint APPLICATION

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;
- [X] 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;

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 notary public, personally appeared Pa	, 20, before me, the undersigned aul E. Dresens,
personally known to me, or	
proved to me through satisfac	tory evidence of identification, which was
to be the person whose name was sig acknowledged that he/she signed the	ned on the foregoing instrument in my presence, and foregoing instrument as his/her free act and deed.
(SEAL),	Notary Public
	(print name)
	My Commission expires//

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Inventor's Signature:	Docket No.: 0100.2016-010
	Gary S. Ash
State/Commonwealth of	
of County of	
On this day of notary public, personally appeared	, 20, before me, the undersigned Gary S. Ash,
personally known to me, or	r
proved to me through satis	factory evidence of identification, which was
	signed on the foregoing instrument in my presence, and he 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	
of County of	, 20, before me, the undersigned
of County of On this day of	, 20, before me, the undersigned d Allen J. Bartlett,
ofCounty of On this day of notary public, personally appeared personally known to me, c	, 20, before me, the undersigned d Allen J. Bartlett,
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ofCounty of On this day of notary public, personally appeared personally known to me, of proved to me through satist to be the person whose name was acknowledged that he/she signed	, 20, before me, the undersigned d Allen J. Bartlett, or sfactory evidence of identification, which was signed on the foregoing instrument in my presence, and the foregoing instrument as his/her free act and deed.

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tate/Commonwealth	Bruce Andeen
f	
on this day of	, 20, before me, the undersigned
	I Bruce Andeen,
personally known to me, o	r.
proved to me through satis	factory evidence of identification, which was
b be the person whose name was a cknowledged that he/she signed t	signed on the foregoing instrument in my presence, and the foregoing instrument as his/her free act and deed.
SEAL)	Notary Public
	(print name)
	My Commission expires//
1	
ventor's Signature:	Y. RobertoThan
tate/Commonwealth	·
f <u>New York</u> ounty of <u>Suffolk</u>	www.uturatet
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n this30 day of otary public, personally appeared	Jan, 20 <u>07</u> , before me, the undersigned I Y. Roberto Than,
personally known to me, o	r .
proved to me through satis	factory evidence of identification, which was
) be the person whose name was cknowledged that he/she signed t	signed on the foregoing instrument in my presence, and he foregoing instrument as his/her free act and deed.
SEAL)	PETER Pagano Notary Public
	(print name)
PETER PAGANO Notary Public Stan of New York No. 01PAR117790 Overfined in Selfe's Comby Commission Expire 11 Abt 20.00	My Commission expires <u>1(/ / oð</u>

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Inventor's Signature: Joseph Chor State/Commonwealth of <u>Massachuse</u> County of Middlesse day of January On this 29 , $20 \underline{07}$, 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, drever'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. driver's license Collette Quta Piche Notary Publi Collette RiTA Piche (print name) Collett. (SEAL) _Notary Public

My Commission expires 08/22/2008

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PATENT REEL: 039782 FRAME: 0122

RECORDED: 09/19/2016