SENT BY: HBS&R

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To the Honorable Continissioner of Pa.	102277116 original documents or copy thereof.
1. Name of conveying party(ies)	"Name and address of receiving party(ics)
Paul E. Dresens	Againe and and est of receiving party(ins)
Gary S. Ash. FINANC	Name: Helix Technology Corporation
Bruce R. Andeen	Internal Address: Manafield Corporate Center
Y. Roberto Thian Joseph Chopy, Jr.	
Additional name(s) of conveying party(ies) attached? [] Yes [X] No
3. Nature of conveyance: MRD 8.2.	62 Street Address: Nine Hampshire Street
[] Assignment [] Merger	
[] Security Agreement [] Change of Name	City: Mansfield State: MA
[X] Other Corrective Document, Reel 012392, Frames 05: 0528	18-
Execution Date: 1) 11-05-01, 2) 10-29-01, 3) 10-29-01, 4) 1	
Execution Date: 1) 11-05-01, 2) 10-29-01, 3) 10-29-01, 4) 1 29-01, 5) 10-30-01, 6) 10-31-01.	10- Additional name(s) & address(er) attached? []Yes [X] No
(1999年))(1997年))(1997年))(1997年))(1997年)) 1997年)(1997年)(1997年))(1997年)	
4. Application number(s) or patent number(s):	
If this document is being filed together with a new applic.	ntion the execution date of the and light to
A. Patent Application No.(s)	anon, the execution date of the application is:
	D Detect No. (a)
**	B. Patent No.(s)
09/909,863	B. Patent No.(s)
09/909,863	
09/909,863	B. Patent No.(s) numbers attached? []Yes [X]No
09/909,863	
09/909,863 Additional	numbers attached? []Yes [X]No
09/909,863 Additional 5. Name and address of party to whom correspondence concerning document should be mailed:	numbers attached? []Yes [X]No 6. Total number of applications and patents involved: [1]
Additional Additional Additional S. Name and address of party to whom correspondence concerning document should be mailed: Name: James M. Stnith	numbers attached? []Yes [X] No 6. Total number of applications and patents involved: [1] 7. Total Fee (37 C.F.R. 3.41)
09/909,863 Additional S. Name and address of party to whom correspondence concerning document should be mailed: Name: James M. Smith	numbers attached? [] Yes [X] No 6. Total number of applications and patents involved: [1] 7. Total Fee (37 C.F.R. 3.41)
Additional Additional Additional S. Name and address of party to whom correspondence concerning document should be mailed: Name: James M. Smith internal Address: Hamilton, Brook, Smith & Reynolds, P.C.	numbers attached? [] Yes [X] No 6. Total number of applications and patents involved: [1] 7. Total Fee (37 C.F.R. 3.41)
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09/909,863 Additional Image: James M. Smith Image: James M. Smith Image: James M. Smith & Reynolds, P.C. Street Address: State: MA Concord	numbers attached? [Yes [X]No 6. Total number of applications and patents involved: [1] 7. Total Fee (37 C.F.R. 3.41)
09/909,863 5. Name and address of party to whom correspondence concerning document should be mailed; Name: James M. Smith Internal Address: Hamilton, Brook, Smith & Reynolds, P.C. Street Address: Street Address: Street Address: Street Address: Street Address: Dity: Concord State: MA ZIP: 01742-913; Material 40.00 BP	numbers attached? [Yes [X]No 6. Total number of applications and patents involved: [1] 7. Total Fee (37 C.F.R. 3.41)
09/909,863 Additional Image: James M. Stmith Internal Address: Hamilton, Brook, Smith & Reynolds, P.C. Street Address: S30 Virginia Road, P.O. Box 9133 City: Concord State: MA ZIP: 01742-913; BO Statement and signature. To the best of my knowledge and belief, the foregoing info	numbers strached? [Yes [X]No 6. Total number of applications and patents involved: [1] 7. Total Fee (37 C.F.R. 3.41)
09/909,863 5. Name and address of party to whom correspondence concerning document abould be mailed: Name: James M. Smith Internal Address: Hamilton, Brook, Smith & Reynolds, P.C. Street Address: State: Max ZIP: 01742-913: Max Statement and signature. To the best of my knowledge and belief, the foregoing infordocument	numbers attached? [Yes [X]No 6. Total number of applications and patents involved: [1] 7. Total Fee (37 C.F.R. 3.41)
09/909,863 5. Name and address of party to whom correspondence concerning document should be mailed: Same: James M. Smith Internal Address: Hamilton, Brook, Smith & Reynolds, P.C. Street Address: State: MA ZIP: 01742-913: State: No. up to the best of my knowledge and belief, the foregoing info document. Christopher J. Lutz	numbers strached? [Yes [X]No 6. Total number of applications and patents involved: [1] 7. Total Fee (37 C.F.R. 3.41)
09/909,863 5. Name and address of party to whom correspondence concerning document abould be mailed: Name: James M. Smith internal Address: Hamilton, Brook, Smith & Reynolds, P.C. Street Address: State: MA ZIP: 01742-913: Mail Statement and signature. To the best of my knowledge and belief, the foregoing infed document.	numbers attached? [Yes [X]No 6. Total number of applications and patents involved: [1] 7. Total Fee (37 C.F.R. 3.41)

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To the Honorable Commissioner of Patents and France	ached original documents or copy thereof.
 Name of conveying party(ics) Paul E. Dresens Gary S. Ash Allen J. Barded Bruce R. Andeen Y. Roberto Thap 	2. Name and address of receiving party(ics) Name: Helix Corporation Internal Address: Mansfield Corporate Center
Joseph Chopy, Jr.	
Additional name(4) of conveying party(ies) quached? [] Yes [X No	
3. Nature of conveyance:	Street Address: Nine Hampshire Street
[X] Assignment [] Merger	
[] Security Agreement [] Change of Name	City: Mansfield State: MA ZIP: 02048- 9171
[] Other	
Execution Date: 11-05-01, 10-29-01, 10-29-01, 10-29-01, 10-30-01, 30-31-01	Additional name(s) & address(es) attached?] Yes = [X] No
4. Application number(s) or patent number(s):	
If this document is being filed together with a new application	, the execution date of the application is:
A. Patent Application No.(s) 09/909,863	B. Patent No.(s)
Additional num 5. Name and address of party to whom correspondence concerning document should be mailed:	bcrs attached? [] Yes [X] No 6. Total number of applications and patents involved: []]
Name: Jones M. Smith	7. Total Fcc (37 C.F.R. 3.41) \$ 40.00
Internal Address:	[X] Enclosed
Hamilton, Brook, Szujth & Reynolds, P.C.	 [X] Authorized to charge any deficiencies or credit any overpayment to deposit account [] Authorized to be charged to deposit account
Street Address: 530 Virginia Road, P.O. Box 9133	 Deposit account number: 08-0380
City: Concord State: MA ZIP: 01742-9133	(Attach duplicate copy of this page if paying by deposit account
DO NO	DT USE THIS SPACE
 Statement and signature. To the best of my knowledge and belief, the foregoing information document. 	ation is true and correct and any attached copy is a true copy of the origin d
Christopher J. Lutz	1 / La 11/16/01
Nume of Person Signing	A Signature Date
Total number of pages including co	over sheet, attachments, and document: [11]

P. 06

Locket No. 0100.2016-000

Joint

ASSIGNMENT

WHEREAS, we, Paul E. Dresens, Gary S. Ash, Allen J. Bartlett, Bruce R. Andeen, Y Roberto Than and Joseph Chopy, Jr. have invented a certain improvement in Helium Management Control System described in an application for Letters Patent of the United States, the specification of which:

- is being executed on even date herewith and is about to be filed in the United ſĨ States Patent Office;
- was filed on July 20, 2001 as Application No. 09/909,863; [X]
- was patented under U.S. Patent No. [] on []. []

Technology Corporation WHEREAS, Helix Gerperation (hereinafter "ASSIGNEE"), a corporation organized and g under the laws of the State of Delaware, and having a usual place of business at $7-8^{-02}$ feld Corporate Center. Nine Hampehira Street Market Market and Technology (1990) existing under the laws of the State of Delaware, and having a usual place of business at Mansfield Corporate Center, Nine Hampshire Street, Mansfield, Massachusetts 02048-9171 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 thereon; 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;

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 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;



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

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

Inventor's Signature: Ont & Dr
Paul E. Dresens
State(Commonwealth)
of <u>Alussachusettes</u>
County of <u>Middlesey</u>
Then personally appeared before me the above-named Paul E. Dresens and acknowledged that holshe executed the foregoing instrument as his/her free act and deed this <u>574</u> day of <u>Noreal bern</u> , 200/ (SEAL) (SEAL) (SEAL) (SEAL)
My Commission expires

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28 M TRI 2000 TRI 2000 Mer 200 AM	
Inventor's Signature:	Gary S. Ash
State/Commonwealth	Gary 5. Asi
of	Name and the <u>Augustual Augustual Au</u>
	d before me the above-named Gary S. Ash and acknowledged tha going instrument as his/her free act and deed this d
(SEAL)	Notary Public
	(print name)
	My Commission expires/
Inventor's Signature:	Allen J. Bartlett
State/Commonwealth	And of Bartiell
of	
County of	
	d before me the above-named Allen J. Bartlett and acknowledged foregoing instrument as his/her free act and deed this
day of	
(SEAL)	Notary Public
()	(print name)
	(print frame)
	My Commission expires //

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<u>المعرور معالم المحرك من من المحرك من المحرك الم</u>		
inventor's Signature:		
	Bruce R. Andeen	
fate/Commonwealth		
County of		
	d before me the above-named Bruce R. Andeen and ack foregoing instrument as his/her free act and deed this 20	
SEAL)	Notary Public	
	(print name)	
	(print name) My Commission expires//	
nventor's Signature:	My Commission expires//	
	My Commission expires / /	
tate/Commonwealth	My Commission expires / /	
	My Commission expires// Y. Roberto Than	
tate/Commonwealth f County of Then personally appeared that he/she executed the f	My Commission expires// Y. Roberto Than A before me the above-named Y. Roberto Than and ackr foregoing instrument as his/her free act and deed this	
tate/Commonwealth 5 County of then personally appeared hat he/she executed the f ay of	My Commission expires //	
State/Commonwealth	My Commission cxpites // Y. Roberto Than A before me the above-named Y. Roberto Than and ackr. foregoing instrument as his/her free act and deed this	
State/Commonwealth	My Commission expires //	

Inventor's Signature:		
, 		Joseph Chopy, Jr.
State/Commonwealth		
of		
County of		
	ed before me the above	
Then personally appeare	ed before me the above foregoing instrument	e-named Joseph Chopy, Jr. and acknowle as his/her free act and deed this
Then personally appeare that be/she executed the	ed before me the above foregoing instrument	e-named Joseph Chopy, Jr. and acknowle
Then personally appeare that be/she executed the day of	ed before me the above foregoing instrument	e-named Joseph Chopy, Jr. and acknowle as his/her free act and deed this

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JUN-28-2002 FRI 04:48 PM

Docket No. 0100.2016-000

Joint

ASSIGNMENT

WHEREAS, we, Paul E. Dresens, Gary S. Ash, Allen J. Bartlett, Bruce R. Andeen, Y Roberto Than and Joseph Chopy, Jr. have invented a certain improvement in Melium Management Control System described in an application for Letters Patent of the United States, the specification of which:

- [] is being executed on even date herewith and is about to be filed in the United States Patent Office;
- [X] was filed on July 20, 2001 as Application No. 09/909,863;
- [] was patented under U.S. Patent No. [] on [].

HBSR

Technology Corporation WHEREAS, Helix Gorporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at Mansfield Corporate Center, Nine Hampshire Street, Mansfield, Massachusetts 02048-9171 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 thereon; 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;

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 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; NOV-07-2002 THU 02:54 PM HBSR JUN-20-2002 FRI 04:48 PM HBSR

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AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon 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	
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Tanua da a d	
Then personally appea	red before me the above-named Paul E. Dresens and acknowledged the foregoing instrument as his/her free act and deed this
Then personally appea hat he/she executed th	
Then personally appea that he/she executed th day of	red before me the above-named Paul E. Dresens and acknowledged the foregoing instrument as his/her free act and deed this
Then personally appea that he/she executed th	red before me the above-named Paul E. Dresens and acknowledged the foregoing instrument as his/her free act and deed this, 20

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Inventor's Signature: Gary S. Ash State/Commonwealth of Marsachuselts BRISTOC County of Then personally appeared before me the above-named Gary S. Ash and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this $\frac{29}{10}$ day or articler, 20 GI Notary Public (SEAL) (print name) My Commission expires 5/18/2008 Inventor's Signature: Allen J. Bartlett State/Commonwealth of maslachusetts County of BAL Then personally appeared before me the above-named Allen J, Bartlett and acknowle cliged that he/she executed the foregoing instrument as his/her free act and deed this -2Gday of October ,2001 (SEAL) Jotary Public (print name) My Commission expires 181

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-BAA- 1/9/0-	Inventor's Signature: Belen Raledan	1965 (Do Syn
•	State/Commonwealth	
	of malachusetta	
	County of Bruntal	
	Then personally appeared before me the above-named Bruce R. Andeen and acknowledge that he/she executed the foregoing instrument as his/her free act and deed this $$	d
	(SEAL) Debrom. Wilking Notary Public	
	Doborg M. W. Kins (print name)	
	a second se	
	My Commission expires $5/18/2008$	
3×190	Airwentor's Signature:	وسويده مدر الديار
•	State/Commonwealth	
	of Massachusetts	
	County of Rrithol	•
	County 01	
	Then personally appeared before me the above-named Y. Roberto Than and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 30 day of 0.100 day of 0.100 day.	.1
	(SEAL) Debora M. W. King (print name)	
	My Commission expires <u>5/18/2008</u>	

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Inventor's Signature: Jose Jr. State/Commonwealth ٥ſ County of

Then personally appeared before me the above-named Joseph Chopy, Jr. and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this $3/3^{1/2}$ day of <u>Colorben</u>, 2001.

(SEAL)

Notary Public S (print name) പുറ 1 1812008 My Commission expires 15

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ENDINE VANDA CORRECTION CONTRACTOR

RECORDED: 08/02/2002