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Form PTO-1595 / U.: 01 - 1	7-2006			
RE(
103159555 Attorney's Docket No. 03-4062				
To the Honorable Commissioner of Patents and Trademarks. Please record the attached original document(s) or copy(ies) thereof.				
 Name of conveying party(ies): Gregory Troxel 	2. Name and address of receiving party(ies):			
2) David Spencer Pearson 3) Brig Barnum Elliott	Name: BBNT Solutions LLC.			
Additional name(s) of conveying party(ies) attached? Yes No	Address: 10 Moulton Street Cambridge, MA 02138			
3. Nature of conveyance:	1132			
Other:	Additional name(s) & address(es) attached? Yes No			
Execution Date: 1) January 5, 2006 2) January 2, 2006 and 3) December 28, 2005				
4. Application number(s) or patent number(s):				
If this document is being filed together with a new appli	ication, the execution date of the application is: January 5,			
2006; January 2, 2006 and December 28, 2005				
A. Patent Application No.(s)	B. Patent No.(s)			
Additional numbers attached? Yes No				
Name and address of party to whom correspondence should be mailed:	6. Total number of applications and patents involved: 1			
should be maried:	7. Total fee (37 CFR 3.41): \$40.00			
Name: John E. Harrity	⊠ Enclosed			
Address: HARRITY SNYDER, L.L.P. 11350 Random Hills Road Suite 600 Fairfax, Virginia 22030	Authorization to be charged to deposit account, if necessary.			
CUSTOMER NUMBER: 26615	8. Deposit account number:			
COSTOMER WOMBER. 20013	50-1070			
DO NOT USE THIS SPACE				
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document A 81/13/2895 LNUELLER 98898874 11327471				
hn E. Harrity ame of Person Signing Reg. No. 43,367 Signature O1 FC:8821 January 9, 2006 Date				
Total number of pages including cover sheet, attachments, and document: 7				

ASSIGNMENT (Joint) Worldwide Rights

THIS ASSIGNMENT, by <u>Gregory Troxel</u>, <u>David Spencer Pearson</u>, and <u>Brig Barnum Elliott</u>, residing at <u>P.O. Box 225</u>, <u>Stow. MA 01775</u>, <u>Shadowbrook Farm</u>, <u>1601 Monument Ave.</u>, <u>Bennington</u>, <u>VT 05201</u> and <u>25 Wollaston Ave.</u>, <u>Arlington</u>, <u>MA 02476</u> (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in <u>PEDIGREES FOR</u> <u>OUANTUM CRYPTOGRAPHY</u> set forth in an application for Letters Patent of the United States,

(1)	which is a provisional application (a) filed herewith; or (b) bearing Application No, and filed on; or
(2)	which is a non-provisional application (a) having an oath or declaration executed on even date herewith prior to filing of application;
	(b) bearing Application No, and filed on : or
	(c) I filed herewith; and

WHEREAS, BBNT Solutions LLC., a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 10 Moulton Street, Cambridge, MA 02138 (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including any previously or subsequently filed provisional applications, for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, be it known that for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, provisional applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND, the Assignors further agree, without any further payment or compensation by said ASSIGNEE or its successors and assigns, upon request of the ASSIGNEE, to communicate to said ASSIGNEE, its representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings; to testify in any interference or other legal

proceedings; to execute and deliver, on request, all lawful papers required to make any of the foregoing provisions

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AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters

effective; and to generally do everything reasonable to aid said ASSIGNEE, its successors or assigns and nominees to secure, obtain and enforce patent protection for said invention or invent in this or any foreign country.

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WHEREAS, the Assignors have invented certain new and useful improvements in PEDIGREES FOR QUANTUM CRYPTOGRAPHY set forth in an application for Letters Patent of the United States,

(1) which is a provisional application

(a) filed herewith; or

(b) bearing Application No. _____, and filed on _____; or

✓ which is a non-provisional application

 (a) having an oath or declaration executed on even date herewith prior to filing of application;
 (b) bearing Application No. ______, and filed on _____; or

(c) I filed herewith; and

(2)

WHEREAS, BBNT Solutions LLC., a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 10 Moulton Street, Cambridge, MA 02138 (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including any previously or subsequently filed provisional applications, for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, be it known that for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, provisional applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND, the Assignors further agree, without any further payment or compensation by said ASSIGNEE or its successors and assigns, upon request of the ASSIGNEE, to communicate to said ASSIGNEE, its representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings; to testify in any interference or other legal

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proceedings; to execute and deliver, on request, all lawful papers required to make any of the foregoing provisions

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effective; and to generally do everything reasonable to aid said ASSIGNEE, its successors or assigns and nominees to secure, obtain and enforce patent protection for said invention or invent in this or any foreign country.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Gregory Troxel	Witness Signature
Date:	Witness Name
David Spencer Pearson	Witness Signature
Date: 1/2/2006	Susan E. Beal Witness Name
Brig Barnum Elliott	Witness Signature
Date:	Witness Name

Attorney's Docket No. 03-4062

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	(b) bearing Application No, and filed on
	(c) Siled herewith; and

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Gregory Troxel	Witness Signature
Date:	Witness Name
David Spencer Pearson	Witness Signature
Date:	Witness Name
Brig Barnum Elliott	Janu Burchfiel Winess Signature
Date: 28 Dec UT	JERRY BURCHFIEL

Witness Name

RECORDED: 01/09/2006