10.20.00

11-02-2000 RECOR EET To the Honorable Commissioner of Pater 101503482 iginal documents or copy thereof. Name of conveying party(ies) 2. Name and address of receiving party(ies) (1) John Christopher Brock (2) Charles K. Fadel Name: Cisco Technology, Inc. (3) Kevin Riley Internal Address: Additional name(s) of conveying party(ies) attached? [ | Yes [x] No Nature of conveyance: Street Address: 170 W. Tasman Drive [x] Assignment [] Merger Security Agreement [ ] Change of Name City: San Jose State: ZIP: 95134 [] Other Execution Date: (1) 10/10/00; (2-3) 10/2/00 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) B. Patent No.(s) 09/628,614 Additional numbers attached? [ ] Yes [x] No Name and address of party to whom correspondence 6. Total number of applications and patents involved: [1] concerning document should be mailed: Name: Leo R. Reynolds, Esq. 7. Total Fee (37 C.F.R. 3.41)...... \$ 40.00 Internal Address: [X] Enclosed [X] Authorized to charge any deficiencies or credit any Hamilton, Brook, Smith & Reynolds, P.C. overpayment to deposit account Authorized to be charged to deposit account [ ] Street Address: Two Militia Drive 8. Deposit account number: 08-0380 City: Lexington State: MA ZIP: 02421-4799 (Attach duplicate copy of this page if paying by deposit account) 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

C. Steven Kurlowecz

Name of Person Signing

Signature

<del>\_\_</del>

Total number of pages including cover sheet, attachments, and document:

Docket No. 2386.2007-000

**Joint** 

## **ASSIGNMENT**

WHEREAS, we, John Christopher Brock, Charles K. Fadel and Kevin Riley, have invented a certain improvement in METHOD AND APPARATUS FOR STORAGE AND RETRIEVAL OF CONNECTION DATA IN A COMMUNICATIONS 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 31, 2000 as Application No. 09/628,614;
[]	was patented under U.S. Patent No. [ ] on [ ].

WHEREAS, Cisco Technology, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of California, and having a usual place of business at 170 W. Tasman Drive, San Jose, California 95134 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;

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:	John Christoph Breek						
State/Commonwealth	John Christopher Brock						
of CALIFURNIA							
County of SANTA C	LARA						
Then personally appeared before me the above-named John Christopher Brock and acknowledged that he executed the foregoing instrument as his free act and deed this							
(SEAL)	Michelle S. Haffman Notary Public MCHELLE S. Haffman (print name)						
	My Commission expires 02/19/04						

Santa Clara County My Comm. Expires Feb 19, 2004

Inventor's Signature:					
	Charles K. Fadel				
State/Commonwealth					
of					
County of					
Then personally appeared b	before me the above-named Charles K. Fadel and acknowledged				
that he executed the foregoing instrument as his free act and deed this day					
	, 20				
(SEAL)	Notary Public				
,					
	My Commission expires/				
Inventor's Signature:					
	Kevin Riley				
State/Commonwealth	•				
of					
County of					
	A <del></del>				
Then personally appeared b	before me the above-named Kevin Riley and acknowledged that he				
executed the foregoing instrument as his free act and deed this day of					
	, 20				
(SEAL)	Notary Public				
()					
	(print name)				
	My Commission expires/				

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Joint

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[]	is being executed on even date herewith and is about to be filed in the United States Patent Office;
[X]	was filed on July 31, 2000 as Application No. 09/628,614;
[]	was patented under U.S. Patent No. [ ] on [ ].

WHEREAS, Cisco Technology, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of California, and having a usual place of business at 170 W. Tasman Drive, San Jose, California 95134 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;

- trade						
Inventor's Signature:						
Charles K. Fadel State/Commonwealth						
of MASSACHUSETT						
County of Middlesey						
Then personally appeared before me the above-named Charles K. Fadel and acknowledged that he executed the foregoing instrument as his free act and deed this day of						
(SEAL) (Carnela A. Seman Notary Public						
Primeta A Simued (print name)						
My Commission expires _ C6/ 23/ひん						
• — — — — — — — — — — — — — — — — — — —						
Inventor's Signature:						
Kevin Riley						
State/Commonwealth						
of Massachusetts						
County of Middles ex						
Then personally appeared before me the above-named Kevin Riley and acknowledged that he executed the foregoing instrument as his free act and deed this $2^{\mu 3}$ day of $200$ .						
(SEAL)  Tamola A. Sima de Motary Public  Pamela A. Sima de (print name)  My Commission expires 06/00/06						

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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:					
	John Chris	topher Brock			
State/Commonwealth					
of					
County of					
acknowledged that he execu	efore me the above-named Joh sted the foregoing instrument a	s his free act and deed this			
(SEAL)		Notary Public			
		(print name)			
	My Commission expires	/			

PATENT RECORDED: 10/20/2000 REEL: 011191 FRAME: 0331