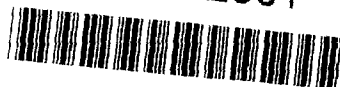


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SHEET

To the Honorable Commissioner of Patents and Trademarks

attached original documents or copy thereof.

1. Name of conveying party(ies)
 (1) Howard Pines
 (2) Wenfeng Huang
 (3) Daryl Kaiser
 (4) Ian Sayers

09/14/01

2. Name and address of receiving party(ies)
 Name: Cisco Technology, Inc.

Internal Address: _____

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
 Execution Date: (1) 9/5/01 (2) (3) and (4) 9/4/01

Street Address: 170 West Tasman Drive

City: San Jose State: CA ZIP: 95134-1706

Additional name(s) & address(es) attached? Yes 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)
09/919,761

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: David J. Thibodeau, Jr., Esq.
 Internal Address: _____
Hamilton, Brook, Smith & Reynolds, P.C.
 Street Address: Two Militia Drive
 City: Lexington State: MA ZIP: 02421-4799

6. Total number of applications and patents involved: [1]

7. Total Fee (37 C.F.R. 3.41)..... \$ 40.00
 Enclosed
 Authorized to charge any deficiencies or credit any overpayment to deposit account
 Authorized to be charged to deposit account

8. Deposit account number:
08-0380

(Attach duplicate copy of this page if paying by deposit account)

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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.

Mark B. Solomon Mark B. Solomon 9/10/01
 Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: [5]

09/18/2001 09:51:56 AM MWELLER 0000248 09/19/01 40.00 UP

JointASSIGNMENT

WHEREAS, we, **Howard Pines, Wenfeng Huang, Daryl Kaiser and Ian Sayers** have invented a certain improvement in **Method and Apparatus for Using Fire Decoder to Correct Burst Errors in a Real-Time 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;

was filed on **July 31, 2001** as Application No. **09/919,761**;

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 West 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.

Inventor Howard Pines Date 9-05-01
Howard Pines

Address 8752 Terrace Dr.
El Cerrito, Ca. 94530

Witness Darlene Cheung
Address 411 S. Eldorado #3
San Mateo, Ca. 94402

Witness Kevin Raack
Address 2010 Lynn Avenue
Los Gatos CA 95052

Inventor Wenfeng Huang Date 09/04/2007

Address 14 Leigh Ct
San Ramon CA 94583

Witness Darlene Cheung

Address Cell S. Guadado #3
San Mateo, CA 94402

Witness Kevin D. Raack

Address 2010 Lynn Avenue
Los Gatos, CA 95032

Inventor Daryl Kaiser Date 4 Sep 2001

Address 215 wooded view Drive
Los Gatos, CA 95032

Witness Darlene Cheung

Address Cell S. Guadado #3
San Mateo CA 94402

Witness Kevin D. Raack

Address 2010 Lynn Avenue
Los Gatos, CA 95032

Inventor I Sayers Date 4 Sep 2001
Ian Sayers

Address 107 WHARF RD
ROOWOOD CITY, CA 94065

Witness Daniene Cheung

Address 611 S. Colorado #3
San Mateo, Ca 94402

Witness Kevin D. Raack

Address 2010 Lynn Avenue
Los Gatos, CA 95052

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