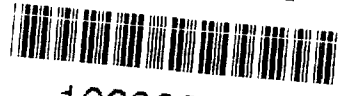


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12-03-2002

FORM PTO-1595 (Rev. 3/01) OMD NO. 0651-0011 exp. 5/31/2002



U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

102300278

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): David A. Hughes and Frank H. Chui

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

3. Nature of Conveyance: Assignment, Merger, Security Agreement, Change of Name, Other

Street Address: 170 West Tasman Drive City: San Jose State/Provence: California Zip: 95134

4. Application Number(s) or patent number(s): A. Patent Application No.(s): 09/250,968

B. Patent No.(s) Additional numbers attached? No

5. Name and address of party to whom correspondence concerning document should be mailed: Lester J. Vincent, Blakely, Sokoloff, Taylor & Zafman LLP

6. Total number of applications and patents involved: 1 7. Total Fee (37 CFR 3.41).....\$40.00 Enclosed

DO NOT USE THIS SPACE

9. Statement and signature. To the best of my knowledge and believe, the foregoing is true and correct and any attached copy is a true copy of the original document

Lester J. Vincent, Reg. No. 31,460 Name of Person Signing Signature Date November 20, 2002

Total number of pages including cover sheet, attachments, and document: 5 Mail documents to be recorded with required cover sheet information to: Assistant Commissioner of Patents, Box Assignments Washington, D.C. 20231

Attorney Docket No.: 81862P137 12/02/2002 LMUELLER 00000182 09250968 01 FC:0021 40.00 DP

FINANCE SECTION 12/02/02 AM 7:59

Attorney's Docket

**ASSIGNMENT**

**PATENT**

No.: 81862P137 (For Execution After Filing Patent Application)

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we

the undersigned, David A. Hughes, Onchuen D. Lau, Frank H. Chui, and Quang H. Nguyen

hereby sell, assign, and transfer to Cisco Technology, Inc.

a corporation of California, having a principal place of business at

170 West Tasman Drive, San Jose, California 95134, ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the application for the United States patent that was filed February 16, 1999 and assigned Application No. 09/250,968 and is entitled

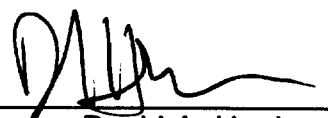
METHOD FOR IMPLEMENTING AUTOMATIC PROTECTION SWITCHING (APS)

USING CELL REPLICATION

and in and to said application and all divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: Sept 3, 2002   
Name: David A. Hughes

Date: \_\_\_\_\_, 20 \_\_\_\_  
Name: Onchuen D. Lau

Date: \_\_\_\_\_, 20 \_\_\_\_  
Name: Frank H. Chui

Date: \_\_\_\_\_, 20 \_\_\_\_  
Name: Quang H. Nguyen

Date: \_\_\_\_\_, 20 \_\_\_\_  
Name: \_\_\_\_\_

Date: \_\_\_\_\_, 20 \_\_\_\_  
Name: \_\_\_\_\_

State of: \_\_\_\_\_ }  
County of: \_\_\_\_\_ } SS. Assignment Document Return Address:  
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP  
12400 Wilshire Blvd., Seventh Floor  
Los Angeles, California 90025-1026  
(408) 720-8598

On this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_, before me, \_\_\_\_\_,  
the undersigned Notary Public, personally appeared \_\_\_\_\_

personally known to me  proved to me on the basis of satisfactory evidence to  
be the person(s) whose name(s) subscribed to the within instrument, and  
acknowledged that executed it.  
WITNESS my hand and official seal.

\_\_\_\_\_  
Notary's Signature

Attorney's Docket

**ASSIGNMENT**

PATENT

No.: 81862P137 (For Execution After Filing Patent Application)

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we  
the undersigned, David A. Hughes, Onchuen D. Lau, Frank H. Chui, and Quang H. Nguyen

hereby sell, assign, and transfer to Cisco Technology, Inc.  
a corporation of California, having a principal place of business at  
170 West Tasman Drive, San Jose, California 95134, ("Assignee"),  
and its successors, assigns, and legal representatives, the entire right, title, and interest for the  
United States and all foreign countries, in and to any and all improvements that are disclosed in  
the application for the United States patent that was filed February 16, 1999 and assigned  
Application No. 09/250,968 and is entitled

METHOD FOR IMPLEMENTING AUTOMATIC PROTECTION SWITCHING (APS)

USING CELL REPLICATION

and in and to said application and all divisional applications, continuation applications,  
continued prosecution applications, continuation-in-part applications, substitute applications,  
renewal applications, reissue applications, reexaminations, extensions, and all other patent  
applications that have been or shall be filed in the United States and all foreign countries on  
any of said improvements; and in and to all original patents, reissued patents, reexamination  
certificates, and extensions that have been or shall be issued in the United States and all  
foreign countries on said improvements; and in and to all rights of priority resulting from the  
filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said  
improvements in its own name; and that, when requested, without charge to, but at the  
expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in  
good faith the intent and purpose of this Assignment, the undersigned will execute all divisional  
applications, continuation applications, continued prosecution applications, continuation-in-part  
applications, substitute applications, renewal applications, reissue applications, reexaminations,  
extensions, and all other patent applications on any and all said improvements; execute all  
rightful oaths, assignments, powers of attorney, and other papers; communicate to said  
Assignee, its successors, assigns, and representatives all facts known to the undersigned  
relating to said improvements and the history thereof; and generally assist said Assignee, its  
successors, assigns, or representatives in securing and maintaining proper patent protection  
for said improvements and for vesting title to said improvements, and all applications for  
patents and all patents on said improvements, in said Assignee, its successors, assigns, and  
legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no  
assignment, grant, mortgage, license, or other agreement affecting the rights and property  
herein conveyed has been made to others by the undersigned, and that full right to convey the  
same as herein expressed is possessed by the undersigned.

Date: \_\_\_\_\_, 20 \_\_\_\_ Name: David A. Hughes

Date: \_\_\_\_\_, 20 \_\_\_\_ Name: Onchuen D. Lau

Date: Aug. 29, 2002 Frank H. Chui  
Name: Frank H. Chui

Date: \_\_\_\_\_, 20 \_\_\_\_ Name: Quang H. Nguyen

Date: \_\_\_\_\_, 20 \_\_\_\_ Name: \_\_\_\_\_

Date: \_\_\_\_\_, 20 \_\_\_\_ Name: \_\_\_\_\_

State of: \_\_\_\_\_ }  
County of: \_\_\_\_\_ } SS. Assignment Document Return Address:  
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP  
12400 Wilshire Blvd., Seventh Floor  
Los Angeles, California 90025-1026  
(408) 720-8598

On this \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_, before me, \_\_\_\_\_,  
the undersigned Notary Public, personally appeared \_\_\_\_\_

personally known to me  proved to me on the basis of satisfactory evidence to  
be the person(s) whose name(s) subscribed to the within instrument, and  
acknowledged that executed it.  
WITNESS my hand and official seal.

\_\_\_\_\_  
Notary's Signature