

02-09-2000

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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

1. Name of conveying party(ies):

(a) Haq, Faisal

(b) Lalgudi, Hari

(c)

Additional name(s) of conveying party(ies) attached?

Yes  No

2. Name and address of receiving party(ies):

Name: Cisco Technology, Inc.

Street Address: 170 W. Tasman Drive

City: San Jose State: California Zip: 95134-1706

Country: United States

3. Nature of Conveyance:

Assignment  Merger

Security Agreement  Change of Name

Other \_\_\_\_\_

Execution Date: January 13, 2000

Name and address of receiving party(ies):

Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Country: \_\_\_\_\_

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: January 13, 2000

A. Patent Application No.(s) -

Title: Implementing Access Control Lists Using A Balanced Hash Table Of Access Control List Binary Comparison Trees

09483110

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Dale R. Cook

Internal Address: SKJERVEN, MORRILL, MacPHERSON, FRANKLIN & FRIEL LLP

Street Address: 25 METRO DRIVE, SUITE 700

City SAN JOSE State CA ZIP 95110

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

Authorized to be charged to Deposit Account 19-2386

Charge Deposit Account 19-2386 for any additional fees required for this conveyance and credit deposit account 19-2386 any amounts overpaid

02/09/2000 TTOM11 00000016 192386 09483110

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8. 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.*

Dale R. Cook 42,434 [Signature] 17 Jan 00

Name of Person Signing Signature Date

Total number of pages comprising cover sheet: 1

**ASSIGNMENT**

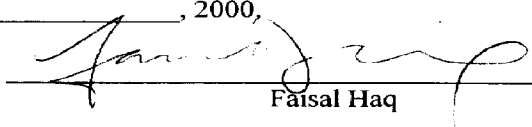
For good and valuable consideration, receipt of which is hereby acknowledged, we

Haq, Faisal	of	Sunnyvale, California
Lalgudi, Hari K.	of	San Jose, California

hereby sell, assign and transfer to Cisco Technology, Inc., a California corporation, having a place of business at 170 W. Tasman Drive, San Jose, California 95134-1706, its successors and assigns, the entire right, title and interest throughout the world in our invention in

Implementing Access Control Lists Using A Balanced Hash Table Of Access Control List Binary Comparison Trees

for which we have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request the Commissioner of Patents and Trademarks to issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 13<sup>th</sup> day of JANUARY, 2000,  
  
 Faisal Haq

State of California            )  
  ) ss.  
County of SANTA CLARA

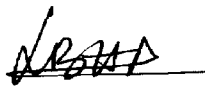
On JANUARY 13, 2000 before me, Denice M. da Gloria-Wurnitsch personally  
~~Faisal Haq~~  
 appeared Faisal Haq personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



Denice M. da Gloria-Wurnitsch  
SIGNATURE OF NOTARY

Executed this 13<sup>th</sup> day of January, 2000.



Hari K. Lalgudi

State of California )  
                                  ) ss.  
County of Santa Clara

On January 13, 2000 before me, Denise M. da Gloria-Wurnitsch personally appeared Hari K. Lalgudi personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Denise M. da Gloria-Wurnitsch  
SIGNATURE OF NOTARY

