

03-15-2005

3/10/05

RECO



HEET

102958670

To the Honorable Commissioner of Pa.

Please record the attached original documents or copy thereof.

OFFICE OF PUBLIC RECORDS
2005 MAR 10 PM 7:10
FINANCE SECTION

1. Name of conveying party(ies)
 Qingming Ma
 Saravanan Agasaveeran
 Satish Gannu

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

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

 Street Address: 170 West Tasman Drive

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

 Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
 Execution Date: January 3, 2000, January 3, 2000 & January 5, 2000

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)
10/981,815
 B. Patent No.(s)

 Additional numbers attached? Yes No

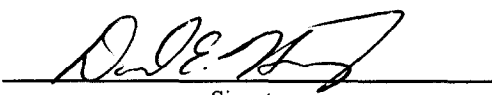
5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: David E. Huang, Esq.
 Internal Address: _____
CHAPIN & HUANG, L.L.C.

 Street Address: Westborough Office Park
1700 West Park Drive
 City: Westborough State: MA ZIP: 01581

6. Total number of applications and patents involved: 1
 7. Total Fee (37 C.F.R. 3.41)..... \$ 40.00
 Enclosed with application filing fee
 Authorized to charge any deficiencies or credit any overpayment to deposit account
 Authorized to be charged to deposit account
 8. Deposit account number:
50-0901
 (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 document.

David E. Huang, Esq.  March 8, 2005
 Name of Person Signing Signature Date

03/14/2005 DBYRNE 00000015 10981815

Total number of pages including cover sheet, attachments, and document: [7]

01 PC:0021

ASSIGNMENT

WHEREAS, we, Qingming Ma, Saravanan Agasaveeran and Satish Gannu, have invented a certain improvement in METHODS AND APPARATUS FOR MOVING DATA ELEMENTS WITHIN A DATA COMMUNICATIONS DEVICE 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 _____ as Application No. _____
- was patented under U.S. Patent No. _____ on _____.

FREE COPY

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 95134-1706 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.

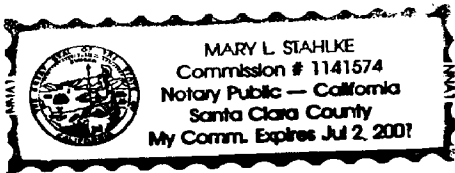
Inventor: *Qingming Ma*
Qingming Ma

State/~~Commonwealth~~
of California
County of Santa Clara

Then personally appeared before me the above-named Qingming Ma and acknowledged that he executed the foregoing instrument as his free act and deed this 3RD day of January, 2000.

(SEAL)

Mary L. Stahlke Notary Public
MARY L. STAHLKE (print name)
My Commission expires 7/2/2001



Inventor: Saravanan
Saravanan Agasaveeran

State/Commonwealth
of CALIFORNIA
County of SANTA CLARA

Then personally appeared before me the above-named Saravanan Agasaveeran and
acknowledged that he executed the foregoing instrument as his free act and deed this
3rd day of JANUARY, 2000.

(SEAL)

Mary L. Stahlke Notary Public
MARY L. STAHLKE (print name)
My Commission expires 07/02/01



Inventor: _____
Satish Gannu

State/Commonwealth
of _____
County of _____

Then personally appeared before me the above-named Satish Gannu and acknowledged that
he/she executed the foregoing instrument as his/her free act and deed this
_____ day of _____, 20__.

(SEAL)

_____ Notary Public
_____ (print name)
My Commission expires ___ / ___ / ___

ASSIGNMENT

WHEREAS, we, Qingming Ma, Saravanan Agasaveeran and Satish Gannu, have invented a certain improvement in METHODS AND APPARATUS FOR MOVING DATA ELEMENTS WITHIN A DATA COMMUNICATIONS DEVICE 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 _____ as Application No. _____;
- 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 95134-1706 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: _____
Qingming Ma

State/Commonwealth
of _____
County of _____

Then personally appeared before me the above-named Qingming Ma and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this _____ day of _____, 20__.

(SEAL)

Notary Public

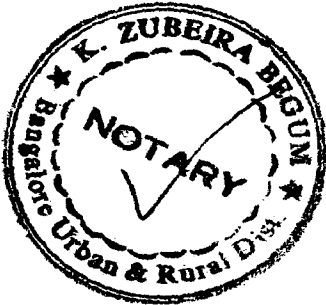
(print name)
My Commission expires ___ / ___ / ___

Inventor: _____
Saravanan Agasaveeran

State/Commonwealth
of _____
County of _____

Then personally appeared before me the above-named Saravanan Agasaveeran and
acknowledged that he/she executed the foregoing instrument as his/her free act and deed this
5th day of Jan., 2000

(SEAL)



K. ZUBEIRA BEGUM Notary Public
K. ZUBEIRA BEGUM (print name)
My Commission expires 3/12/2001

K. ZUBEIRA BEGUM
B. A. B. L.
ADVOCATE & NOTARY
34/2, 5th Road
Nandidurga Road Extn.
BANGALORE - 560 008.

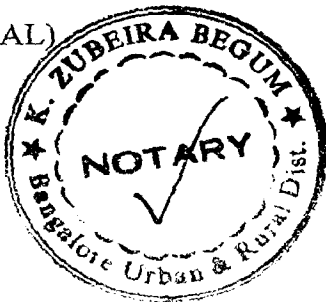
15 JAN 2000

Inventor: G. Satish Kumar
Satish Gannu

State/Commonwealth
of KARNATAKA, INDIA
County of BANGALORE

Then personally appeared before me the above-named Satish Gannu and acknowledged that
he/she executed the foregoing instrument as his/her free act and deed this
5th day of Jan., 2000.

(SEAL)



K. ZUBEIRA BEGUM Notary Public
K. ZUBEIRA BEGUM (print name)
My Commission expires 3/12/2001

K. ZUBEIRA BEGUM
B. A. B. L.
ADVOCATE & NOTARY
34/2, 5th Road
Nandidurga Road Extn.
BANGALORE - 560 008.