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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

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

1. Name of conveying party(ies):

David C. Banks
Alex S. Wang
Kreg A. Martin

12.26.01

2. Name and address of receiving party(ies)

Name: Brocade Communications Systems, Inc.

Internal Address: _____

Street Address: 1745 Technology DriveCity: San JoseState: CAZip: 95110Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: 12/5/2001Additional 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)
09/929,627

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Keith LutschInternal Address: Wong Cabello LutschRutherford & Brucculeri, P.C.Street Address: 20333 SH 249, Suite 600City: HoustonState: TXZip: 770706. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ 40.00☒ Enclosed☐ Authorized to be charged to deposit account

8. Deposit account number:

501922

(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.*Keith Lutsch

Name of Person Signing

Keith Lutsch

Signature

12/17/2001

Date

4

Total number of pages including cover sheet, attachments, and documents

12/28/2001 LMUELLER 00000195 09929627

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

01 FC:581

40.00 OP

PATENT
REEL: 012396 FRAME: 0945

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to Brocade Communications Systems, Inc., a California corporation, having a place of business at 1745 Technology Drive, San Jose, California 95110 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the application for United States Letters Patent entitled: QUALITY OF SERVICE USING VIRTUAL CHANNEL TRANSLATION ("APPLICATION"), which:

☐ is to be filed herewith

☒ was filed on August 13, 2001, now bearing U.S. Serial Number 09/929,627 and for which a Declaration was executed by INVENTOR on the date(s) below; and

The entire worldwide right, title, and interest in and to (a) the APPLICATION, including any right of priority; (b) any divisional, continuation, substitute, renewal, reissue, and other related applications thereto which have been or may be filed in the United States or elsewhere in the world; and (c) patents which may be granted on the applications set forth in (a) and (b) above.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles, and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has made or will make hereafter no assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Executed this 5th day of December, 2001.

David C. Banks
David C. Banks

STATE OF CALIFORNIA

COUNTY OF ALAMEDA

BEFORE ME, the undersigned authority, on this day personally appeared David C. Banks, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for the purposes and consideration herein expressed.

GIVEN UNDER MY HAND and seal of office this 5th day of December, 2001.



Elizabeth Moore
Notary Public in and for the
State of California

Executed this 5th day of December, 2001.

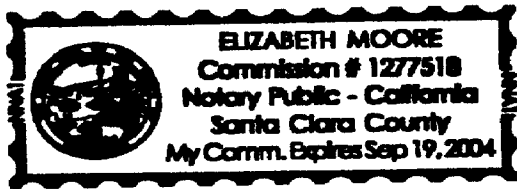
Alex S. Wang
Alex S. Wang

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

BEFORE ME, the undersigned authority, on this day personally appeared Alex S. Wang, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for the purposes and consideration herein expressed.

GIVEN UNDER MY HAND and seal of office this 6th day of December, 2001.



Elizabeth Moore
Notary Public in and for the
State of California

Executed this 5th day of December, 2001.

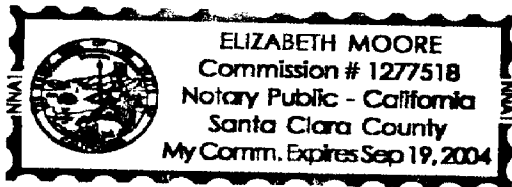
Kreg A Martin
Kreg A. Martin

STATE OF CALIFORNIA

COUNTY OF SANTA CLARA

BEFORE ME, the undersigned authority, on this day personally appeared Kreg A. Martin, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for the purposes and consideration herein expressed.

GIVEN UNDER MY HAND and seal of office this 5th day of December, 2001.



Elizabeth Moore
Notary Public in and for the
State of California