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Docket No.: 112-0061US



102450809 PATENTS ONLY

SHEET

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

Form PTO-195 (Rev. 03/2002)

USPTO Form No. 0651-0027 (exp. 5/31/2002)

Tab settings

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

1. Name of conveying party(ies): Christopher A. Del Signore; Vineet M. Abraham; Sathish K. Gnanasekaran; Pranab Patnaik; Vincent W. Guan; Balakumar N. Kaushik

5-1403

2. Name and address of receiving party(ies) Name: Brocade Communications Systems, Inc.

Internal Address:

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

3. Nature of conveyance:

- [x] Assignment [] Merger [] Security Agreement [] Change of Name [] Other

Street Address: 1745 Technology Drive

City: San Jose State: CA Zip: 95110

Execution Date: 4/23, 24, 5/6/2003

Additional name(s) & address(es) attached? [] Yes [x] 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) 10/356,392

B. Patent No.(s)

Additional numbers attached? [] Yes [x] No

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

Name: Keith Lutsch

Internal Address: Wong, Cabello, Lutsch,

Rutherford & Brucculeri, L.L.P.

Street Address: 20333 SH 249, Suite 600

City: Houston State: TX Zip: 77070

6. Total number of applications and patents involved: 1

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

- [x] 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 Rutherford

Signature

5/9/2003

Date

Name of Person Signing

Signature

6

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

05/16/2003 BYRNE

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Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

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 Delaware 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: METHOD AND APPARATUS FOR ROUTING BETWEEN FIBRE CHANNEL FABRICS ("APPLICATION"), which:

is to be filed herewith

was filed on January 31, 2003, now bearing U.S. Serial Number 10/356,392 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 23rd day of April, 2003.

Christopher A. Del Signore

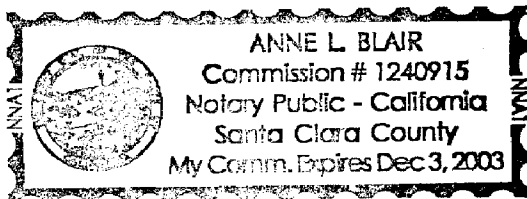
Christopher A. Del Signore

STATE OF CALIFORNIA

COUNTY OF Santa Clara

BEFORE ME, the undersigned authority, on this day personally appeared Christopher A. Del Signore, 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 23rd day of April, 2003.



Anne L. Blair
Notary Public in and for the
State of California

Executed this 24th day of April, 2003.

Vineet M. Abraham

Vineet M. Abraham

STATE OF CALIFORNIA

COUNTY OF San Mateo

BEFORE ME, the undersigned authority, on this day personally appeared Vineet M. Abraham, 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 24 day of April, 2003.



Katrina M. Bayne

Notary Public in and for the
State of California

Executed this 6th day of May, 2003.

Sathish K. Gnanasekaran

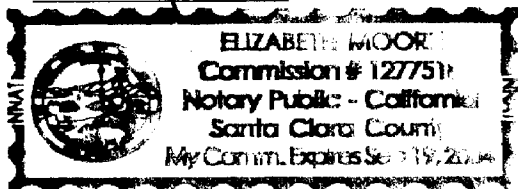
Sathish K. Gnanasekaran

STATE OF CALIFORNIA

COUNTY OF Santa Clara

BEFORE ME, the undersigned authority, on this day personally appeared Sathish K. Gnanasekaran, 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 May, 2003.



Elizabeth Moore

Notary Public in and for the
State of California

Executed this 6th day of May, 2003.

Pranab Patnaik

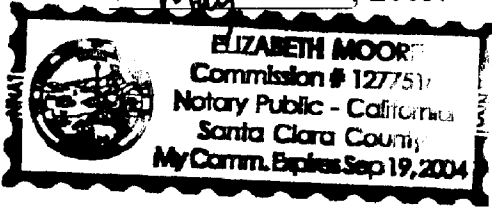
Pranab Patnaik

STATE OF CALIFORNIA

COUNTY OF Santa Clara

BEFORE ME, the undersigned authority, on this day personally appeared Pranab Patnaik, 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 May, 2003.



Elizabeth Moore
Notary Public in and for the
State of California

Executed this 6th day of May, 2003.

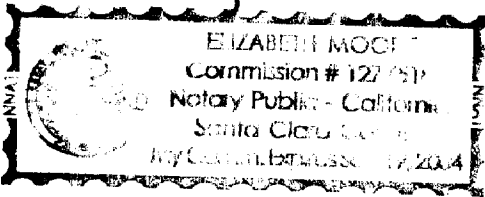
Vincent W. Guan
Vincent W. Guan

STATE OF CALIFORNIA

COUNTY OF Santa Clara

BEFORE ME, the undersigned authority, on this day personally appeared Vincent W. Gaun, 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 8th day of May, 2003.



Elizabeth Moore
Notary Public in and for the
State of California

Executed this 6th day of May, 2003.

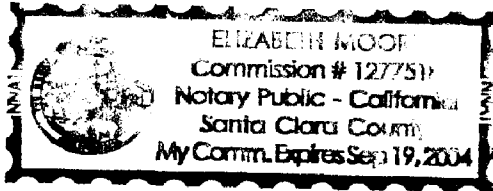
N. Balak
Balakumar N. Kaushik

STATE OF CALIFORNIA

COUNTY OF Santa Clara

BEFORE ME, the undersigned authority, on this day personally appeared Balakumar N. Kaushik, 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 May, 2003.



Elizabeth Moore
Notary Public in and for the
State of California