

Docket No.: 112-0008US

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07-16-2002



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

To the Honorable Commissioner of Patents and Trademarks, please forward the attached original documents or copy thereof.

1. Name of conveying party(ies): Ronald K. Kreuzenstein; David C. Banks; Kreg A. Martin Additional name(s) of conveying party(ies) attached? [] Yes [X] No

07/08/02

2. Name and address of receiving party(ies) Name: Brocade Communications Systems, Inc. Internal Address: 1745 Technology Drive Street Address: City: San Jose State: CA Zip: 95110 Additional name(s) & address(es) attached? [] Yes [X] No

3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: 6/10, 14, 17/2002

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) 10/134,744 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, P.C. Street Address: 20333 SH 249, Suite 600 City: Houston State: TX Zip: 77070

07/15/2002 ANNED1 00000094 10134744 40.00 OP 01 FC 581

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 Lutsch Name of Person Signing Signature Date 7/1/02

Total number of pages including cover sheet, attachments, and documents: 7

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

PATENT REEL: 013078 FRAME: 0791

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: FRAME-PULL FLOW CONTROL IN A FIBRE CHANNEL NETWORK ("APPLICATION"), which:

is to be filed herewith

was filed on April 29, 2002, now bearing U.S. Serial Number 10/134,744 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 10th day of June, 2002.

Ronald K. Kreuzenstein
Ronald K. Kreuzenstein

STATE OF CALIFORNIA

COUNTY OF SANTA CLARA

BEFORE ME, the undersigned authority, on this day personally appeared Ronald K. Kreuzenstein, 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 10th day of June, 2002.



Elizabeth Moore
Notary Public in and for the
State of California

Executed this ___ day of _____, 2002.

David C. Banks

STATE OF CALIFORNIA

COUNTY OF Santa Clara

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 10th day of June, 2002.

[Handwritten Signature]

Notary Public in and for the
State of California

Executed this 17 day of June, 2002.

Kreg A Martin

Kreg A. Martin

STATE OF CALIFORNIA

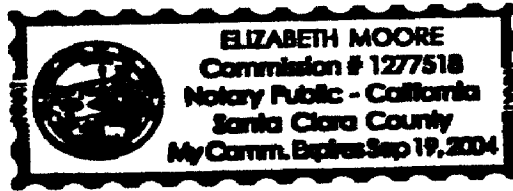
COUNTY OF Santa Clara

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 17th day of June, 2002.

Elizabeth Moore

Notary Public in and for the
State of California



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:

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is to be filed herewith

was filed on April 29, 2002, now bearing U.S. Serial Number 10/134,744 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 14 day of June, 2002.

Ronald K. Kreuzenstein

STATE OF CALIFORNIA

COUNTY OF San Mateo

BEFORE ME, the undersigned authority, on this day personally appeared Ronald K. Kreuzenstein, 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 14 day of June, 2002.



Katrina M. Bayne
Notary Public in and for the
State of California

Executed this 14 day of June, 2002.

David C. Banks
David C. Banks

STATE OF CALIFORNIA

COUNTY OF San Mateo

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 14 day of June, 2002.



Katrina M Bayne
Notary Public in and for the
State of California

Executed this ____ day of _____, 2002.

Kreg A. Martin

STATE OF CALIFORNIA

COUNTY OF _____

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 ____ day of _____, 2002.

Notary Public in and for the
State of California