

02-03-2000

Attorney Docket No. 19599-3-1US



FORM PTO-1595
(Rev. 6-93)

U.S. Department of Commerce
Patent and Trademark Office

101256460

To the Honorable Asst. Commissioner for Patents

Documents or copy thereof

1. Name of conveying party(ies):
Steven McCanne
Additional name(s) of conveying parties attached? Yes
 No
12/20/99

2. Name and address of receiving party(ies)
Name: FastForward Networks, Inc.
Internal Address:
Street Address: 75 Hawthorne Street
City: San Francisco State: CA ZIP: 94105
Additional names and addresses attached? Yes No
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1999 DEC 20 PM 12:31

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other:
Execution Date: December 8, 1999

4. Application Number(s) or Patent Numbers.
If this document is being filed together with a new application, the execution date of the application is:
A. Patent Application No(s): 09/412,815 B. Patent No(s):
Additional numbers attached? Yes No

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

6. Total number of applications and patents involved

Name: Daniel D. Tagliaferri
TOWNSEND AND TOWNSEND AND CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, California 94111-3834
(415) 576-0200

7. Total fee (37 CFR 3.41): -----\$40.00
 Enclosed Charge Fees to Deposit Account
 Charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to deposit account.
8. Deposit account number: 20-1430

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9. Statement and signature.
To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document.

Daniel D. Tagliaferri
Name of Person Signing
Atty Reg. No. 43,178
Daniel D Tagliaferri
Signature
12/17/99
Date
Total number of pages including cover sheet, attachments and document 4

10. Change Correspondence Address to that of Part 5? Yes No

OMB No. 0651-0011 (exp. 4/94)

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1. Additional name(s) of conveying party(ies):
(Continued from Page 1)

Andrew Swan

2. Additional name(s) and address(es) of receiving party(ies):
(Continued from Page 1)

3. Additional application number(s) or patent number(s):
(Continued from Page 1)

A. Patent Application No.(s)

B. Patent No.(s)

SF 150911 v1
SF 1053011 v1

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Steven McCanne, of 1571 San Lorenzo Ave., Berkeley, California 94707, Andrew Swan, of 1350 Cedar Street, Berkeley, California 94702, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: SYSTEM FOR MULTIPPOINT
INFRASTRUCTURE TRANSPORT IN A
COMPUTER NETWORK

Date(s) of execution of Declaration: _____

Filing Date: October 5, 1999

Application No.: 09/412,815; and

WHEREAS, FastForward Networks, Inc., a corporation of the state of Delaware, located at 75 Hawthorne Street, Suite 601, San Francisco, California, 94105, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 12-8-99

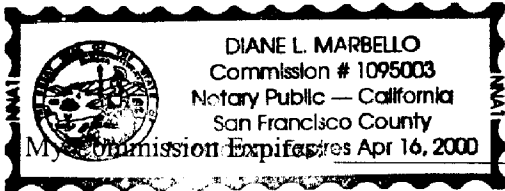
[Signature]
Steven McCanne

STATE OF CALIFORNIA)
)
COUNTY OF San Francisco)

ss.

On December 8, 1999, before me, Diane L. Marbello, ^{Notary Public}, personally appeared Steven McCanne, ~~personally known to me~~ (or proved to me on the basis of satisfactory evidence) to be the person whose name is ~~are~~ subscribed to the within instrument, and acknowledged to me that ~~he/she/they~~ executed the same in his ~~her/their~~ authorized capacity (ies), and that by his ~~her/their~~ signature (s) on the instrument the person , or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



Diane L. Marbello
NOTARY PUBLIC

Dated: 12-8-99

[Signature]
Andrew Swan

STATE OF CALIFORNIA)
)
COUNTY OF San Francisco)

ss.

On December 8, 1999, before me, Diane L. Marbello, ^{Notary Public}, personally appeared Andrew Swan, ~~personally known to me~~ (or proved to me on the basis of satisfactory evidence) to be the person whose name is ~~are~~ subscribed to the within instrument, and acknowledged to me that ~~he/she/they~~ executed the same in his ~~her/their~~ authorized capacity (ies), and that by his ~~her/their~~ signature (s) on the instrument the person , or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



Diane L. Marbello
NOTARY PUBLIC