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Attorney Docket No. 019599-001810US

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



Sheet

U.S. Department of Commerce
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Tab settings

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

1. Name of conveying party(ies):
Nicholas Thompson
2-11-02
Additional name(s) of conveying parties attached? Yes No.

2. Name and address of receiving party(ies)
Name: FastForward Networks
Street Address: 75 Hawthorne Street, Suite 601
City: San Francisco State: CA ZIP: 94105

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other: _____
Execution Date: January 8, 2002; November 7, 2001; October 16, 2001 and October 5, 2001

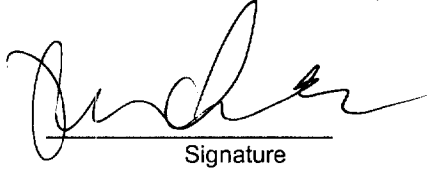
Additional names and addresses attached? Yes X No

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): 09/900,704
B. Patent No(s): _____
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Philip H. Albert
TOWNSEND AND TOWNSEND AND CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, California 94111-3834
(415) 576-0200

6. Total number of applications and patents involved 1
7. Total fee (37 CFR 3.41): -----\$40.00
 Enclosed
 Authorized to be charged to deposit account
8. Deposit account number: 20-1430
(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 is true and correct and any attached copy is a true of copy of the original document.
Philip H. Albert  1/18/02
Name of Person Signing Signature Date
Atty. Reg. No. 35,819

Total number of pages including cover sheet, attachments and document 6

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

02/27/2002 TDIAZ1 00000145 201430 09900704

01 FC:581 40.00 CH

PATENT
REEL: 012608 FRAME: 0709

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

William Welch
Kevin J. Lang
Steven McCanne
Matthew G. Podolsky

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)

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Nicholas Thompson of 4221 20th Street, San Francisco, CA 94114; William Welch of 650 Second Street #203, San Francisco, CA 94107; Kevin J. Lang of 1159 Clay Street Apt. 5, San Francisco, CA 94108; Steven McCanne of 1571 San Lorenzo Avenue, Berkeley, CA 94707; Matthew G. Podolsky of 2541 Regent Street Apt. 301, Berkeley, CA 94704; 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: SCALABLE AND PROGRAMMABLE QUERY
 DISTRIBUTION AND COLLECTION IN A NETWORK OF
 QUERYABLE DEVICES

Date(s) of execution of Declaration: January 8, 2002; November 7, 2001;
 October 16, 2001 and October 5, 2001

Filing Date: July 6, 2001

Application No.: 09/900,704; and

WHEREAS, FastForward Networks, a corporation of the state of Delaware, located at 75 Hawthorne Street, Suite 601, San Francisco, CA, 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.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

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

Dated: January 8 2002



Nicholas Thompson

Dated: _____

William Welch

Dated: _____

Kevin J. Lang

Dated: _____

Steven McCanne

Dated: _____

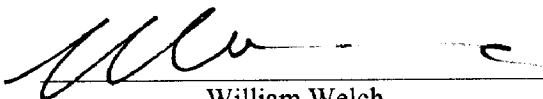
Matthew G. Podolsky

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

Dated: _____

Nicholas Thompson

Dated: 11-7-01



William Welch

Dated: _____

Kevin J. Lang

Dated: _____

Steven McCanne

Dated: _____

Matthew G. Podolsky

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

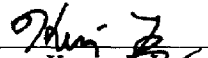
Dated: _____

Nicholas Thompson

Dated: _____

William Welch

Dated: Oct 16, 2001



Kevin J. Wang

Dated: October 5, 2001



Steven McCanne

Dated: OCTOBER 16, 2001



Matthew G. Podolsky