

Tab settings ▢ ▢ ▢ ▼



To the Honorable Commissioner of Patents

101747471

Attached original documents or copy thereof.

1. Name of conveying party(ies):

FORE Systems, Inc.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: Marconi Communications, Inc.

Internal Address: _____

Street Address: 1000 Marconi Drive

City: Warrendale State: PA ZIP: 15086

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☐ Assignment

☐ Merger

☐ Security Agreement

☒ Change of Name

☐ Other _____

Execution Date: _____

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)

09/608,771

09/608,241

09/609,298

09/607,763

09/609,177

09/609,497

09/609,653

08/687,888

09/079,589

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Ansel M. Schwartz

Internal Address: _____

Street Address: 201 N. Craig Street, Suite 304

City: Pittsburgh State: PA ZIP: 15213

6. Total number of applications and patents involved:

9

7. Total fee (37 CFR 3.41).....\$ 360.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number:

(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.

Ansel M. Schwartz

Name of Person Signing

Signature

Date

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

68

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

Commissioner of Patents & Trademarks, Box Assignments

Washington, D.C. 20231

PATENT

REEL: 011873 FRAME: 0869

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CHANGE OF NAME IN RECORDED ASSIGNMENTS

1. Particulars of assignments

A list of assignments recorded against patent applications and/or patents is set forth on the attached page.

2. Old name of assignee

The old name for the assignee as shown for the assignments on the attached page is:

FORE Systems, Inc.

(type or print old name of Assignee)

3. New name of assignee

The new name of the assignee is

Marconi Communications, Inc.

(type or print new name of Assignee)

4. Proof of name change

Proof of assignee's change of name is established by the attached

☒ certificate of the Secretary of State of Delaware,
showing the name change. *(type name of state)*

☐ certificate of name change from: _____
(type or print name of authority)

(check, if applicable)

☐ Because the certificate or the certified copy of the name change is not in the English language, it is accompanied by a verified translation signed by the translator.

5. Change of address for patent maintenance fees

(complete, if applicable)

☐ A change of address to which correspondence is to be sent regarding patent maintenance fees for each patent listed is being sent separately.

(Change of Name in Recorded Assignments [16-12]—page 1 of 3)

6. Payment of fee

NOTE: See 37 CFR 1.21(h).

Please refer to the "ASSIGNMENT (DOCUMENT) COVER SHEET" to which this paper is attached.



SIGNATURE OF PRACTITIONER

Ansel M. Schwartz

(type or print name of practitioner)

201 N. Craig Street

Suite 304

P.O. Address

Pittsburgh, PA 15213

Reg. No.: 30,587

Tel. No.: (412) 621-9222

Customer No.:

(Change of Name in Recorded Assignments [16-12]—page 2 of 3)

APPLICATION NO.: /	FILING DATE	PATENT NO. (if applicable)	ASSIGNMENT RECORDED ON (DATE)	REEL	FRAME
* 09/608,771	6/30/00	--	10/31/00	011221	0465
* 09/608,241	6/30/00	--	11/27/00	011352	0916
* 09/609,298	6/30/00	--	11/27/00	011319	0748
* 09/607,763	6/30/00	--	6/30/00	010935	0008
* 09/609,177	6/30/00	--	11/27/00	011352	0877
* 09/609,497	6/30/00	--	11/27/00	011352	0923
* 09/609,653	6/30/00	--	6/30/00	010939	0924
* 09/079,589	5/15/98	--	5/15/98	9188	0142
* 08/687,888	7/26/96	--	1/31/95	7346	0899

NOTE: The PTO finds it useful if a copy of the assignment is submitted.

- ☒ Cop(ies) of the Assignment(s) for those item(s) whose line begins with an asterisk(*) is(are) being submitted herewith.

NOTE: When requesting correction or updating of a previously recorded assignment document, providing the reel and frame number of that document will greatly expedite the recording process. Helpful Hints published September 30, 1986, 1070 O.G. 47 to 59 at 53.

(Change of Name in Recorded Assignments [16-12]—page 3 of 3)

State of Delaware
Office of the Secretary of State

PAGE 1

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"MARCONI COMMUNICATIONS INC.", A DELAWARE CORPORATION,
WITH AND INTO "FORE SYSTEMS, INC." UNDER THE NAME OF
"MARCONI COMMUNICATIONS, INC.", A CORPORATION ORGANIZED AND
EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED
AND FILED IN THIS OFFICE THE THIRTIETH DAY OF MARCH, A.D. 2001,
AT 4:05 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF
THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE FIRST DAY OF
APRIL, A.D. 2001, AT 12:02 O'CLOCK A.M.



Harriet Smith Windsor
Harriet Smith Windsor, Secretary of State

2316994 8100M

AUTHENTICATION: 1074802

010175586

DATE: 04-10-01

PATENT
REEL: 011873 FRAME: 0873

CERTIFICATE OF OWNERSHIP AND MERGER

MERGING

MARCONI COMMUNICATIONS INC.

INTO

FORE SYSTEMS, INC.

**(PURSUANT TO SECTION 253 OF THE GENERAL
CORPORATION LAW OF THE STATE OF DELAWARE)**

FORE Systems, Inc., a corporation organized and existing under the laws of the State of Delaware (the "Corporation"),

DOES HEREBY CERTIFY:

FIRST: That this Corporation was incorporated on the twenty-fourth day of November, 1992, pursuant to the General Corporation Law of the State of Delaware.

SECOND: That this Corporation owns all of the outstanding shares of the capital stock of Marconi Communications Inc., a corporation incorporated on the twenty-second day of December, 1986, pursuant to the General Corporation Law of the State of Delaware;

THIRD: That this Corporation, by the following resolutions of its Board of Directors, duly adopted by the written consent of its members, filed with the minutes of the Board, on the twenty-eighth day of March, 2001, determined to and did merge into

Page 1

itself said Marconi Communications Inc., with the Corporation surviving said merger:

"RESOLVED: That FORE Systems, Inc. merge and it hereby does merge into itself said Marconi Communications Inc. and assume all of its liabilities and obligations.

FURTHER RESOLVED: That the merger shall be effective on April 1, 2001 at 12:02 a.m., Eastern Standard Time (the 'Effective Time').

FURTHER RESOLVED: That any officer of this Corporation be, and each of them hereby is, directed to make and execute a Certificate of Ownership and Merger setting forth a copy of the resolutions to merge said Marconi Communications Inc. and assume its liabilities and obligations, and the date of adoption thereof, and to cause the same to be filed with the Secretary of State of Delaware and to do all acts and things whatsoever, whether within or without the State of Delaware, which may be necessary or proper to effect said merger.

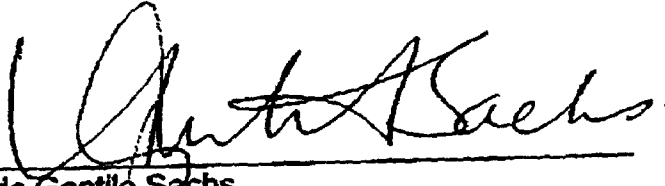
FURTHER RESOLVED: That at the Effective Time, this Corporation change its corporate name by changing Article FIRST of its Certificate of Incorporation to read in its entirety as follows:

"FIRST: The name of the corporation is Marconi Communications, Inc. "

FOURTH: The certificate of incorporation of the Corporation shall be the certificate of incorporation of the surviving corporation in the merger, except that the certificate of incorporation shall be amended so that the name of the surviving corporation thereunder shall be Marconi Communications, Inc."

IN WITNESS WHEREOF, said FORE Systems, Inc. has caused this Certificate to be signed by Valerie Gentile Sachs this twenty-eighth day of March, 2001.

FORE Systems, Inc.

By: 
Valerie Gentile Sachs
Secretary

For: ☒ U.S. and/or ☒ Foreign Rights
For: ☒ U.S. Application or
 ☐ U.S. Provisional Application
For: ☐ U.S. Patent
For: ☐ PCT Application
By: ☒ Inventor(s) or ☐ Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

Inventor(s) or person(s) or
entity(ies) who own the
invention

(see attached)

(type or print name(s) of ASSIGNOR(S))

Address

Nationality

*(if assignment is by person or entity to whom invention was previously assigned
and this was recorded in PTO, add the following)*

Recorded on _____

Reel _____

Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

FORE Systems, Inc.

(type or print name(s) of ASSIGNEE(S))

1000 FORE Drive

Address

Warrendale, PA 15086

United States

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

☒ the entire right, title and interest

☐ an undivided _____ percent (_____%) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority,

in and to any and all improvements which are disclosed in the invention entitled:

SYSTEM, METHOD AND SWITCH FOR AN MPLS NETWORK AND AN ATM NETWORK

Name of inventor(s) Rich Sanzi, Walt Wimer, Curt Bujosa, Ronald P. Bianchini, Jr.

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

(a) ☐ U.S. patent application executed on even date herewith

(b) ☐ U.S. patent application executed on _____

(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention.

☐ Express mail label no.: _____

Mailed: _____

☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.

(d) ☒ U.S. application no. 09 / 608,771
filed on 6/30/00

(e) ☐ International application no. PCT/ _____ / _____

(f) ☐ U.S. patent no. _____ issued _____

☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

(g) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;


(Assignment of Invention [16-3]—page 2 of 3)

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 6th day
of October 2000
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: 10/6/2000


Signature of ASSIGNOR(S)

Date: _____

Date: _____

Date: _____

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person
authorized to sign on behalf of ASSIGNOR)

Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

(Assignment of Invention [16-3]—page 3 of 3)

Attachment for ASSIGNMENT OF INVENTION

Rich Sanzi
2659 Ravenwood Court
Wexford, PA 15090
United States

Walt Wimer
165 Winterbrook Drive
Cranberry, PA 16066
United States

Curt Bujosa
623 Water View Drive
Cranberry, PA 16066
United States

Ronald P. Bianchini, Jr.
326 Olde Chapel Trail
Pittsburgh, PA 15238
United States

Attorney's Docket No. FORE-61

PATENT

For: ☒ U.S. and/or ☒ Foreign Rights
For: ☒ U.S. Application or
☐ U.S. Provisional Application
For: ☐ U.S. Patent
For: ☐ PCT Application
By: ☒ Inventor(s) or ☐ Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

Inventor(s) or person(s) or
entity(ies) who own the
invention

<u>Ronald P. Bianchini, Jr.</u>	<u>Joseph C. Kantz</u>
<i>(type or print name(s) of ASSIGNOR(S))</i>	
<u>326 Olde Chapel Trail</u>	<u>116 Stickle Road</u>
Address	
<u>Pittsburgh, PA 15238</u>	<u>Beaver Falls, PA 1501</u>
<u>United States</u>	<u>United States</u>
Nationality	

*(if assignment is by person or entity to whom invention was previously assigned
and this was recorded in PTO, add the following)*

Recorded on _____ Reel _____
Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

<u>FORE Systems, Inc.</u>
<i>(type or print name(s) of ASSIGNEE(S))</i>
<u>1000 FORE Drive</u>
Address
<u>Warrendale, PA 15086</u>
<u>United States</u>
Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(Assignment of Invention [16-3]—page 1 of 3)

PATENT
REEL: 011873 FRAME: 0881

(complete one of the following)

☒ the entire right, title and interest

☐ an undivided _____ percent (_____%) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority,

in and to any and all improvements which are disclosed in the invention entitled:

RECEIVER MAKES RIGHT

Name of inventor(s) Ronald P. Bianchini, Jr., Joseph C. Kantz

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

(a) ☐ U.S. patent application executed on even date herewith

(b) ☐ U.S. patent application executed on _____

(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention.

☐ Express mail label no.: _____

Mailed: _____

☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.

(d) ☒ U.S. application no. 09 / 608,241
filed on 6/30/00

(e) ☐ International application no. PCT/ _____ / _____

(f) ☐ U.S. patent no. _____ issued _____

☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

(g) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

(Assignment of Invention [16-3]—page 2 of 3)

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 11th day
of November, 2000
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: 11/11/00 RUP. H. J.
Signature of ASSIGNOR(S)

Date: _____

Date: _____

Date: _____

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person
authorized to sign on behalf of ASSIGNOR)

Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

(Assignment of Invention [16-3]—page 3 of 3)

For: ☒ U.S. and/or ☒ Foreign Rights
 For: ☒ U.S. Application or
 ☐ U.S. Provisional Application
 For: ☐ U.S. Patent
 For: ☐ PCT Application
 By: ☒ Inventor(s) or ☐ Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

Inventor(s) or person(s) or
 entity(ies) who own the
 invention

<u>Ronald P. Bianchini, Jr.</u>	<u>Joseph C. Kantz</u>
<i>(type or print name(s) of ASSIGNOR(S))</i>	
<u>326 Olde Chapel Trail</u>	<u>116 Stickle Road</u>
Address	
<u>Pittsburgh, PA 15238</u>	<u>Beaver Falls, PA 1501</u>
<u>United States</u>	<u>United States</u>
Nationality	

*(if assignment is by person or entity to whom invention was previously assigned
 and this was recorded in PTO, add the following)*

Recorded on _____ Reel _____
 Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

<u>FORE Systems, Inc.</u>
<i>(type or print name(s) of ASSIGNEE(S))</i>
<u>1000 FORE Drive</u>
Address
<u>Warrendale, PA 15086</u>
<u>United States</u>
Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

☒ the entire right, title and interest

☐ an undivided _____ percent (_____%) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority,

in and to any and all improvements which are disclosed in the invention entitled:

RECEIVER MAKES RIGHT

Name of inventor(s) Ronald P. Bianchini, Jr., Joseph C. Kantz

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

(a) ☐ U.S. patent application executed on even date herewith

(b) ☐ U.S. patent application executed on _____

(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention.

☐ Express mail label no.: _____

Mailed: _____

☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.

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filed on 6/30/00

(e) ☐ International application no. PCT/ _____ / _____

(f) ☐ U.S. patent no. _____ issued _____

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(also check (g), if foreign application(s) is also being assigned)

(g) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

(Assignment of Invention [16-3]—page 2 of 3)

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 7TH day
of SEPTEMBER, 2000
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: 9/7/2000

Joseph E. Kuntz
Signature of ASSIGNOR(S)

Date:

Date:

Date:

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person
authorized to sign on behalf of ASSIGNOR)

Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

(Assignment of Invention [16-3]—page 3 of 3)

For: ☒ U.S. and/or ☒ Foreign Rights
 For: ☒ U.S. Application or
☐ U.S. Provisional Application
 For: ☐ U.S. Patent
 For: ☐ PCT Application
 By: ☒ Inventor(s) or ☐ Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

Inventor(s) or person(s) or
 entity(ies) who own the
 invention

Fan Zhou Joseph A. Hook
 (type or print name(s) of ASSIGNOR(S))

2009 Timberline Lane 76
~~5725 Snyder Lane #65~~ 226 Foxgoove Drive
Petaluma, CA 94954 76
~~Rohmert Park, PA 15078~~ Baden, PA 15005

United States United States
 Nationality

(if assignment is by person or entity to whom invention was previously assigned
 and this was recorded in PTO, add the following)

Recorded on _____ Reel _____
 Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

FORE Systems, Inc.
 (type or print name(s) of ASSIGNEE(S))
1000 FORE Drive
 Address
Warrendale, PA 15086
United States
 Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

- ☒ the entire right, title and interest
☐ an undivided _____ percent (_____%) interest
for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

- ☒ and in all foreign countries, including all rights to claim priority,
in and to any and all improvements which are disclosed in the invention entitled:
METHOD AND APPARATUS FOR TRANSFERRING PACKETS TO A MEMORY

Name of inventor(s) Fan Zhou, Joseph A. Hook

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

- (a) ☐ U.S. patent application executed on even date herewith
(b) ☐ U.S. patent application executed on _____
(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention.
☐ Express mail label no.: _____
Mailed: _____
☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.
(d) ☒ U.S. application no. 09 / 609,298
filed on 6/30/00
(e) ☐ International application no. PCT/ _____ / _____
(f) ☐ U.S. patent no. _____ issued _____
☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

- (g) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

(Assignment of Invention [16-3]—page 2 of 3)

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 26th day
of Oct., 2000
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: 10/26/2000


Signature of ASSIGNOR(S)

Date: _____

Date: _____

Date: _____

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person
authorized to sign on behalf of ASSIGNOR)

Title

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(Assignment of Invention [16-3]—page 3 of 3)

For: ☒ U.S. and/or ☒ Foreign Rights
For: ☒ U.S. Application or
☐ U.S. Provisional Application
For: ☐ U.S. Patent
For: ☐ PCT Application
By: ☒ Inventor(s) or ☐ Present Owner

ASSIGNMENT OF INVENTION

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ASSIGNOR:

Inventor(s) or person(s) or
entity(ies) who own the
invention

Fan Zhou Joseph A. Hook
(type or print name(s) of ASSIGNOR(S))

5425 Snyder Lane #65 226 Foxgoove Drive
Address

Rohnert Park, CA 94928 Baden, PA 15005

United States United States
Nationality

*(if assignment is by person or entity to whom invention was previously assigned
and this was recorded in PTO, add the following)*

Recorded on _____ Reel _____
Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

FORE Systems, Inc.
(type or print name(s) of ASSIGNEE(S))

1000 FORE Drive
Address

Warrendale, PA 15086

United States
Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

☒ the entire right, title and interest

☐ an undivided _____ percent (_____%) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority,

in and to any and all improvements which are disclosed in the invention entitled:

METHOD AND APPARATUS FOR TRANSFERRING PACKETS TO A MEMORY

Name of inventor(s) Fan Zhou, Joseph A. Hook

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

(a) ☐ U.S. patent application executed on even date herewith

(b) ☐ U.S. patent application executed on _____

(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention.

☐ Express mail label no.: _____

Mailed: _____

☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.

(d) ☒ U.S. application no. 09 / 609,298
filed on 6/30/00

(e) ☐ International application no. PCT/ _____ / _____

(f) ☐ U.S. patent no. _____ issued _____

☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

(g) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

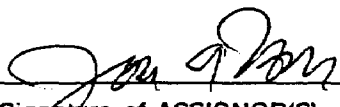
(Assignment of Invention [16-3]—page 2 of 3)

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 12 day
of September 2000.
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: 9/12/2000


Signature of ASSIGNOR(S)

Date: _____

Date: _____

Date: _____

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person
authorized to sign on behalf of ASSIGNOR)

Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

(Assignment of Invention [16-3]—page 3 of 3)

PATENT OR DESIGN: SOLE OR JOINT
(U.S. and Foreign Rights)

ASSIGNMENT FOR UNFILED APPLICATION FOR UNITED STATES
PATENT

(Sole or Joint Inventors)

WHEREAS:

FULL NAME(S) AND
POST OFFICE ADDRESS(S)
OF INVENTOR(S) (including
country)

Gianfranco Spagnolo
1037 Lincoln Highlands
Coraopolis, PA 15108
United States

Jeff Schulz
114 Denny Road
Valencia, PA 16059
United States

(hereinafter referred to as ASSIGNOR), have invented and
own a certain invention entitled:

SYNCHRONIZATION OF ASYNCHRONOUS BACK-PRESSURE FROM
ONE DESTINATION TO MULTIPLE SOURCES

TITLE OF
INVENTION

for which application for Letters Patent of the United States
has been executed on even date herewith.

WHEREAS: FORE Systems, Inc.
1000 FORE Drive
Warrendale, PA 15086
United States

FULL NAME AND
ADDRESS (including country)
OF ASSIGNEE

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:
Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

(Assignment for Unified Application for United States Patent [16-1]—page 1 of 2)

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

Warning

DATE OF SIGNING:

This must be the same as the date of signing of the declaration and power of the patent or design application.

IN WITNESS WHEREOF, I/We have hereunto set hand

and seal this June 29, 2000

(Date of Signing)

(Signature)

(Signature)

(Signature)

SIGNATURE(S) The signature(s) must correspond with the name(s) of the inventor(s) above.

Instruction sheet for assignment-
Signing

All information, names of inventor(s) and assignee, title of invention and particulars of application should be completed.

No witnessing or legalization is necessary. However, if this assignment is legalized then it will only be prime facie evidence of the execution of the assignment.

(Assignment for Unified Application for United States Patent [16-1]—page 2 of 2)

For: ☒ U.S. and/or ☒ Foreign Rights
For: ☒ U.S. Application or
☐ U.S. Provisional Application
For: ☐ U.S. Patent
For: ☐ PCT Application
By: ☒ Inventor(s) or ☐ Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

Inventor(s) or person(s) or
entity(ies) who own the
invention

(see attached)

(type or print name(s) of ASSIGNOR(S))

Address

Nationality

*(if assignment is by person or entity to whom invention was previously assigned
and this was recorded in PTO, add the following)*

Recorded on _____ **Reel** _____

Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

FORE Systems, Inc.

(type or print name(s) of ASSIGNEE(S))

1000 FORE Drive

Address

Warrendale, PA 15086

United States

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

☒ the entire right, title and interest

☐ an undivided _____ percent (_____%) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority,

in and to any and all improvements which are disclosed in the invention entitled:

BACKPLANE SYNCHRONIZATION IN A DISTRIBUTED SYSTEM WITH CLOCK

DRIFT AND TRANSPORT DELAY

Name of inventor(s) Jeff Quirke, Gianfranco Spagnolo, Jeff
Schulz, Matthew Leper and Ronald P. Bianchini, Jr.

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

(a) ☐ U.S. patent application executed on even date herewith

(b) ☐ U.S. patent application executed on _____

(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention.

☐ Express mail label no.: _____

Mailed: _____

☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.

(d) ☒ U.S. application no. 09 / 609,177
filed on 6/30/00

(e) ☐ International application no. PCT/ _____ / _____

(f) ☐ U.S. patent no. _____ issued _____

☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

(g) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

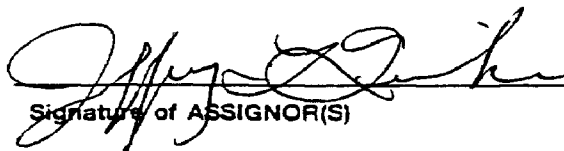
(Assignment of Invention [16-3]—page 2 of 3)

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 17th day
of 9/2000
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: 9/17/00


Signature of ASSIGNOR(S)

Date:

Date:

Date:

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person
authorized to sign on behalf of ASSIGNOR)

Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

(Assignment of Invention [16-3]—page 3 of 3)

Jeff Quirke
6642 Woodwell Street
Pittsburgh, PA 15217
United States

Gianfranco Spagnolo
1037 Lincoln Highlands
Coraopolis, PA 15108
United States

Jeff Schulz
114 Denny Road
Valencia, PA 16059
United States

Matthew Leper
303 Woodlands Drive
Zelienople, PA 16063
United States

Ronald P. Bianchini, Jr.
326 Olde Chapel Trail
Pittsburgh, PA 15238
United States

For: ☒ U.S. and/or ☒ Foreign Rights
For: ☒ U.S. Application or
 ☐ U.S. Provisional Application
For: ☐ U.S. Patent
For: ☐ PCT Application
By: ☒ Inventor(s) or ☐ Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

Inventor(s) or person(s) or
entity(ies) who own the
invention

(see attached)

(type or print name(s) of ASSIGNOR(S))

Address

Nationality

*(if assignment is by person or entity to whom invention was previously assigned
and this was recorded in PTO, add the following)*

Recorded on _____

Reel _____

Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

FORE Systems, Inc.

(type or print name(s) of ASSIGNEE(S))

1000 FORE Drive

Address

Warrendale, PA 15086

United States

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

☒ the entire right, title and interest

☐ an undivided _____ percent (_____%) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority,

in and to any and all improvements which are disclosed in the invention entitled:

BACKPLANE SYNCHRONIZATION IN A DISTRIBUTED SYSTEM WITH CLOCK

DRIFT AND TRANSPORT DELAY

Name of inventor(s) Jeff Quirke, Gianfranco Spagnolo, Jeff Schulz, Matthew Leper and Ronald P. Bianchini, Jr.

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

(a) ☐ U.S. patent application executed on even date herewith

(b) ☐ U.S. patent application executed on _____

(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention.

☐ Express mail label no.: _____

Mailed: _____

☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.

(d) ☒ U.S. application no. 09 / 609,177
filed on 6/30/00

(e) ☐ International application no. PCT/ _____ / _____

(f) ☐ U.S. patent no. _____ issued _____

☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

(g) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

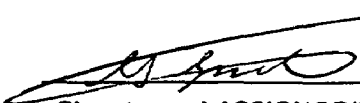
(Assignment of Invention [16-3]—page 2 of 3)

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 18th day
of September, 2000
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: 9/18/00



Signature of ASSIGNOR(S)

Date: _____

Date: _____

Date: _____

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person
authorized to sign on behalf of ASSIGNOR)

Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

(Assignment of Invention [16-3]—page 3 of 3)

Attachment to ASSIGNMENT OF INVENTION

Jeff Quirke
6642 Woodwell Street
Pittsburgh, PA 15217
United States

Gianfranco Spagnolo
1037 Lincoln Highlands
Coraopolis, PA 15108
United States

Jeff Schulz
114 Denny Road
Valencia, PA 16059
United States

Matthew Leper
303 Woodlands Drive
Zelienople, PA 16063
United States

Ronald P. Bianchini, Jr.
326 Olde Chapel Trail
Pittsburgh, PA 15238
United States

For: ☒ U.S. and/or ☒ Foreign Rights
For: ☒ U.S. Application or
☐ U.S. Provisional Application
For: ☐ U.S. Patent
For: ☐ PCT Application
By: ☒ Inventor(s) or ☐ Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

Inventor(s) or person(s) or
entity(ies) who own the
invention

(see attached)

(type or print name(s) of ASSIGNOR(S))

Address

Nationality

*(if assignment is by person or entity to whom invention was previously assigned
and this was recorded in PTO, add the following)*

Recorded on _____

Reel _____

Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

FORE Systems, Inc.

(type or print name(s) of ASSIGNEE(S))

1000 FORE Drive

Address

Warrendale, PA 15086

United States

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

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☐ an undivided _____ percent (_____%) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority,

in and to any and all improvements which are disclosed in the invention entitled:

BACKPLANE SYNCHRONIZATION IN A DISTRIBUTED SYSTEM WITH CLOCK

DRIFT AND TRANSPORT DELAY

Name of inventor(s) Jeff Quirke, Gianfranco Spagnolo, Jeff Schulz, Matthew Leper and Ronald P. Bianchini, Jr.

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

(a) ☐ U.S. patent application executed on even date herewith

(b) ☐ U.S. patent application executed on _____

(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention.

☐ Express mail label no.: _____

Mailed: _____

☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.

(d) ☒ U.S. application no. 09 / 609,177
filed on 6/30/00

(e) ☐ International application no. PCT/ _____ / _____

(f) ☐ U.S. patent no. _____ issued _____

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ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

(Assignment of Invention [16-3]—page 2 of 3)

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IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 18th day of September, 2000.
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: 9-18-2000 
Signature of ASSIGNOR(S)

Date: _____

Date: _____

Date: _____

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person
authorized to sign on behalf of ASSIGNOR)

Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

(Assignment of Invention [16-3]—page 3 of 3)

Attachment to ASSIGNMENT OF INVENTION

Jeff Quirke
6642 Woodwell Street
Pittsburgh, PA 15217
United States

Gianfranco Spagnolo
1037 Lincoln Highlands
Coraopolis, PA 15108
United States

Jeff Schulz
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Matthew Leper
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United States

Ronald P. Bianchini, Jr.
326 Olde Chapel Trail
Pittsburgh, PA 15238
United States

For: ☒ U.S. and/or ☒ Foreign Rights
For: ☒ U.S. Application or
☐ U.S. Provisional Application
For: ☐ U.S. Patent
For: ☐ PCT Application
By: ☒ Inventor(s) or ☐ Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

Inventor(s) or person(s) or
entity(ies) who own the
invention

(see attached)

(type or print name(s) of ASSIGNOR(S))

Address

Nationality

(if assignment is by person or entity to whom invention was previously assigned
and this was recorded in PTO, add the following)

Recorded on _____ Reel _____
Frame _____

hereby sells, assigns and transfers to

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FORE Systems, Inc.

(type or print name(s) of ASSIGNEE(S))

1000 FORE Drive

Address

Warrendale, PA 15086

United States

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

☒ the entire right, title and interest

☐ an undivided _____ percent (_____%) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority,

in and to any and all improvements which are disclosed in the invention entitled:

BACKPLANE SYNCHRONIZATION IN A DISTRIBUTED SYSTEM WITH CLOCK

DRIFT AND TRANSPORT DELAY

Name of inventor(s) Jeff Quirke, Gianfranco Spagnolo, Jeff Schulz, Matthew Leper and Ronald P. Bianchini, Jr.

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

(a) ☐ U.S. patent application executed on even date herewith

(b) ☐ U.S. patent application executed on _____

(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention.

☐ Express mail label no.: _____

Mailed: _____

☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.

(d) ☒ U.S. application no. 09 / 609,177
filed on 6/30/00

(e) ☐ International application no. PCT/ _____ / _____

(f) ☐ U.S. patent no. _____ issued _____

☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

(g) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

(Assignment of Invention [16-3]—page 2 of 3)

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 28th day of September, 2000
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: 28 September 2000

March J. Zapp

Signature of ASSIGNOR(S)

Date:

Date:

Date:

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person
authorized to sign on behalf of ASSIGNOR)

Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

(Assignment of Invention [16-3]—page 3 of 3)

Attachment to ASSIGNMENT OF INVENTION

Jeff Quirke
6642 Woodwell Street
Pittsburgh, PA 15217
United States

Gianfranco Spagnolo
1037 Lincoln Highlands
Coraopolis, PA 15108
United States

Jeff Schulz
114 Denny Road
Valencia, PA 16059
United States

~~Matthew Lepper~~ *Matthew J Lepper*
~~303 Woodlands Drive~~ *1076 North Ave.*
~~Zelienople, PA 16063~~ *Pittsburgh, PA 15238*
United States

Ronald P. Bianchini, Jr.
326 Olde Chapel Trail
Pittsburgh, PA 15238
United States

For: ☒ U.S. and/or ☒ Foreign Rights
For: ☒ U.S. Application or
☐ U.S. Provisional Application
For: ☐ U.S. Patent
For: ☐ PCT Application
By: ☒ Inventor(s) or ☐ Present Owner

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ASSIGNOR:

Inventor(s) or person(s) or
entity(ies) who own the
invention

(see attached)

(type or print name(s) of ASSIGNOR(S))

Address

Nationality

*(if assignment is by person or entity to whom invention was previously assigned
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Reel _____

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hereby sells, assigns and transfers to

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Warrendale, PA 15086

United States

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(Assignment of Invention [16-3]—page 1 of 3)

(complete one of the following)

☒ the entire right, title and interest

☐ an undivided _____ percent (_____%) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority,

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BACKPLANE SYNCHRONIZATION IN A DISTRIBUTED SYSTEM WITH CLOCK

DRIFT AND TRANSPORT DELAY

Name of inventor(s) Jeff Quirke, Gianfranco Spagnolo, Jeff Schulz, Matthew Leper and Ronald P. Bianchini, Jr.

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

(a) ☐ U.S. patent application executed on even date herewith

(b) ☐ U.S. patent application executed on _____

(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention.

☐ Express mail label no.: _____

Mailed: _____

☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.

(d) ☒ U.S. application no. 09 / 609,177
filed on 6/30/00

(e) ☐ International application no. PCT/ _____ / _____

(f) ☐ U.S. patent no. _____ issued _____

☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

(g) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

(Assignment of Invention [16-3]—page 2 of 3)

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 11th day
of November 2000
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: 11/11/00


Signature of ASSIGNOR(S)

Date: _____

Date: _____

Date: _____

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person
authorized to sign on behalf of ASSIGNOR)

Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

(Assignment of Invention [16-3]—page 3 of 3)

Attachment to ASSIGNMENT OF INVENTION

Jeff Quirke
6642 Woodwell Street
Pittsburgh, PA 15217
United States

Gianfranco Spagnolo
1037 Lincoln Highlands
Coraopolis, PA 15108
United States

Jeff Schulz
114 Denny Road
Valencia, PA 16059
United States

Matthew Leper
303 Woodlands Drive
Zelienople, PA 16063
United States

Ronald P. Bianchini, Jr.
326 Olde Chapel Trail
Pittsburgh, PA 15238
United States

For: ☒ U.S. and/or ☒ Foreign Rights
 For: ☒ U.S. Application or
 ☐ U.S. Provisional Application
 For: ☐ U.S. Patent
 For: ☐ PCT Application
 By: ☒ Inventor(s) or ☐ Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

Inventor(s) or person(s) or
 entity(ies) who own the
 invention

(see attached)

(type or print name(s) of ASSIGNOR(S))

Address

Nationality

*(if assignment is by person or entity to whom invention was previously assigned
 and this was recorded in PTO, add the following)*

Recorded on _____

Reel _____

Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

FORE Systems, Inc.

(type or print name(s) of ASSIGNEE(S))

1000 FORE Drive

Address

Warrendale, PA 15086

United States

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

☒ the entire right, title and interest

☐ an undivided _____ percent (_____%) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority,

in and to any and all improvements which are disclosed in the invention entitled:

QUEUE RESYNCH: SYNCHRONOUS REAL-TIME UPGRADE OF A DISTRIBUTED
SWITCHING SYSTEM

Name of inventor(s) Ronald P. Bianchini, Jr., Jeff Schulz, Veera Reddy,
Joseph A. Hook

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

(a) ☐ U.S. patent application executed on even date herewith

(b) ☐ U.S. patent application executed on _____

(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention.

☐ Express mail label no.: _____

Mailed: _____

☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.

(d) ☒ U.S. application no. 09 / 609,497
filed on 6/30/00

(e) ☐ International application no. PCT/ _____ / _____

(f) ☐ U.S. patent no. _____ issued _____

☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

(g) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

(Assignment of Invention [16-3]—page 2 of 3)

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 11th day
of November, 2000
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: 11/11/00


Signature of ASSIGNOR(S)

Date:

Date:

Date:

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person
authorized to sign on behalf of ASSIGNOR)

Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

(Assignment of Invention [16-3]—page 3 of 3)

Attachment to ASSIGNMENT OF INVENTION

Ronald P. Bianchini, Jr.
326 Olde Chapel Trail
Pittsburgh, PA 15238
United States

Jeff Schulz
114 Denny Road
Valencia, PA 16059
United States

Veera Reddy
5011 Sutton Place Extension
Wexford, PA 15090
United States

Joseph A. Hook
226 Foxgoove Drive
Baden, PA 15005
United States

For: ☒ U.S. and/or ☒ Foreign Rights
 For: ☒ U.S. Application or
 ☐ U.S. Provisional Application
 For: ☐ U.S. Patent
 For: ☐ PCT Application
 By: ☒ Inventor(s) or ☐ Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

Inventor(s) or person(s) or
 entity(ies) who own the
 invention

(see attached)

(type or print name(s) of ASSIGNOR(S))

Address

Nationality

*(if assignment is by person or entity to whom invention was previously assigned
 and this was recorded in PTO, add the following)*

Recorded on _____

Reel _____

Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

FORE Systems, Inc.

(type or print name(s) of ASSIGNEE(S))

1000 FORE Drive

Address

Warrendale, PA 15086

United States

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

☒ the entire right, title and interest

☐ an undivided _____ percent (_____%) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority,

in and to any and all improvements which are disclosed in the invention entitled:

QUEUE RESYNCH: SYNCHRONOUS REAL-TIME UPGRADE OF A DISTRIBUTED

SWITCHING SYSTEM

Name of inventor(s) Ronald P. Bianchini, Jr., Jeff Schulz, Veera Reddy,
Joseph A. Hook

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

(a) ☐ U.S. patent application executed on even date herewith

(b) ☐ U.S. patent application executed on _____

(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention.

☐ Express mail label no.: _____

Mailed: _____

☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.

(d) ☒ U.S. application no. 09 / 609,497
filed on 6/30/00

(e) ☐ International application no. PCT/ _____ / _____

(f) ☐ U.S. patent no. _____ issued _____

☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

(g) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

(Assignment of Invention [16-3]—page 2 of 3)

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 18th day
of September 2000
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: 9-18-2000 
Signature of ASSIGNOR(S)

Date: _____

Date: _____

Date: _____

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person
authorized to sign on behalf of ASSIGNOR)

Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

(Assignment of Invention [16-3]—page 3 of 3)

Attachment to ASSIGNMENT OF INVENTION

Ronald P. Bianchini, Jr.
326 Olde Chapel Trail
Pittsburgh, PA 15238
United States

Jeff Schulz
114 Denny Road
Valencia, PA 16059
United States

Veera Reddy
5011 Sutton Place Extension
Wexford, PA 15090
United States

Joseph A. Hook
226 Foxgoove Drive
Baden, PA 15005
United States

For: ☒ U.S. and/or ☒ Foreign Rights
 For: ☒ U.S. Application or
 ☐ U.S. Provisional Application
 For: ☐ U.S. Patent
 For: ☐ PCT Application
 By: ☒ Inventor(s) or ☐ Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

Inventor(s) or person(s) or
 entity(ies) who own the
 invention

(see attached)
 (type or print name(s) of ASSIGNOR(S))

Address

Nationality

*(if assignment is by person or entity to whom invention was previously assigned
 and this was recorded in PTO, add the following)*

Recorded on _____ Reel _____
 Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

FORE Systems, Inc.
 (type or print name(s) of ASSIGNEE(S))

1000 FORE Drive
 Address

Warrendale, PA 15086

United States
 Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

☒ the entire right, title and interest

☐ an undivided _____ percent (_____%) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority,

in and to any and all improvements which are disclosed in the invention entitled:

QUEUE RESYNCH: SYNCHRONOUS REAL-TIME UPGRADE OF A DISTRIBUTED

SWITCHING SYSTEM

Name of inventor(s) Ronald P. Bianchini, Jr., Jeff Schulz, Veera Reddy,
Joseph A. Hook

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

(a) ☐ U.S. patent application executed on even date herewith

(b) ☐ U.S. patent application executed on _____

(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention.

☐ Express mail label no.: _____

Mailed: _____

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(d) ☒ U.S. application no. 09 / 609,497
filed on 6/30/00

(e) ☐ International application no. PCT/ _____ / _____

(f) ☐ U.S. patent no. _____ issued _____

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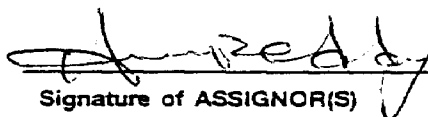
(Assignment of Invention [16-3]—page 2 of 3)

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IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 18th day
of Sep. 2000.
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: 9/18/00


Signature of ASSIGNOR(S)

Date: _____

Date: _____

Date: _____

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person
authorized to sign on behalf of ASSIGNOR)

Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

(Assignment of Invention [16-3]—page 3 of 3)

Attachment to ASSIGNMENT OF INVENTION

Ronald P. Bianchini, Jr.
326 Olde Chapel Trail
Pittsburgh, PA 15238
United States

Jeff Schulz
114 Denny Road
Valencia, PA 16059
United States

Veera Reddy
5011 Sutton Place Extension
Wexford, PA 15090
United States

Joseph A. Hook
226 Foxgoove Drive
Baden, PA 15005
United States

For: ☒ U.S. and/or ☒ Foreign Rights
 For: ☒ U.S. Application or
 ☐ U.S. Provisional Application
 For: ☐ U.S. Patent
 For: ☐ PCT Application
 By: ☒ Inventor(s) or ☐ Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

Inventor(s) or person(s) or
 entity(ies) who own the
 invention

(see attached)

(type or print name(s) of ASSIGNOR(S))

Address

Nationality

*(if assignment is by person or entity to whom invention was previously assigned
 and this was recorded in PTO, add the following)*

Recorded on _____ **Reel** _____
Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

FORE Systems, Inc.

(type or print name(s) of ASSIGNEE(S))

1000 FORE Drive

Address

Warrendale, PA 15086

United States

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

☒ the entire right, title and interest

☐ an undivided _____ percent (_____%) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority,

in and to any and all improvements which are disclosed in the invention entitled:

QUEUE RESYNCH: SYNCHRONOUS REAL-TIME UPGRADE OF A DISTRIBUTED

SWITCHING SYSTEM

Name of inventor(s) Ronald P. Bianchini, Jr., Jeff Schulz, Veera Reddy,
Joseph A. Hook

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

(a) ☐ U.S. patent application executed on even date herewith

(b) ☐ U.S. patent application executed on _____

(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention.

☐ Express mail label no.: _____

Mailed: _____

☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.

(d) ☒ U.S. application no. 09 / 609,497
filed on 6/30/00

(e) ☐ International application no. PCT/ _____ / _____

(f) ☐ U.S. patent no. _____ issued _____

☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

(g) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

(Assignment of Invention [16-3]—page 2 of 3)

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 12 day
of September 2000
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: 9/12/2000



Signature of ASSIGNOR(S)

Date: _____

Date: _____

Date: _____

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person
authorized to sign on behalf of ASSIGNOR)

Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

(Assignment of Invention [16-3]—page 3 of 3)

Attachment to ASSIGNMENT OF INVENTION

Ronald P. Bianchini, Jr.
326 Olde Chapel Trail
Pittsburgh, PA 15238
United States

Jeff Schulz
114 Denny Road
Valencia, PA 16059
United States

Veera Reddy
5011 Sutton Place Extension
Wexford, PA 15090
United States

Joseph A. Hook
226 Foxgoove Drive
Baden, PA 15005
United States

PATENT OR DESIGN: SOLE OR JOINT
(U.S. and Foreign Rights)

ASSIGNMENT FOR UNFILED APPLICATION FOR UNITED STATES
PATENT

(Sole or Joint Inventors)

WHEREAS:

FULL NAME(S) AND
POST OFFICE ADDRESS(S)
OF INVENTOR(S) (including
country)

Jeff Schulz
114 Denny Road
Valencia, PA 16059
United States

(hereinafter referred to as ASSIGNOR), have invented and
own a certain invention entitled:

RECEIVER DECODING ALGORITHM TO ALLOW HITLESS N+1
REDUNDANCY IN A SWITCH

TITLE OF
INVENTION

for which application for Letters Patent of the United States
has been executed on even date herewith,

WHEREAS: FORE Systems, Inc.
1000 FORE Drive
Warrendale, PA 15086
United States

FULL NAME AND
ADDRESS (including country)
OF ASSIGNEE

(hereinafter referred to as ASSIGNEE), is desirous of acquiring
the entire interest in, to and under said invention and in,
to and under Letters Patent or similar legal protection to be
obtained therefor in the United States and in any and all
foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:
Be it known that in consideration of the payment by AS-
SIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the
receipt of which is hereby acknowledged, and for other good
and valuable consideration, ASSIGNOR hereby sells, as-
signs and transfers to ASSIGNEE the full and exclusive right,
title and interest to said invention in the United States and
its territorial possessions and in all foreign countries and to
all Letters Patent or similar legal protection in the United
States and its territorial possessions and in any and all
foreign countries to be obtained for said invention by said
application or any continuation, division, renewal, substitute
or reissue thereof or any legal equivalent thereof in a foreign
country for the full term or terms for which the same may
be granted.

(Assignment for Unified Application for United States Patent [16-1]—page 1 of 2)

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this June 29, 2000
(Date of Signing)

Warning
DATE OF SIGNING:
This must be the same as the date of signing of the declaration and power of the patent or design application.

Asf Sj
(Signature)

(Signature)

(Signature)

SIGNATURE(S) The signature(s) must correspond with the name(s) of the inventor(s) above.

Instruction sheet for assignment-
Signing

All information, names of inventor(s) and assignee, title of invention and particulars of application should be completed. No witnessing or legalization is necessary. However, if this assignment is legalized then it will only be prime facie evidence of the execution of the assignment.

(Assignment for Unified Application for United States Patent [16-1]—page 2 of 2)

PATENT OR DESIGN: SOLE OR JOINT

(U.S. and Foreign Rights)

ASSIGNMENT FOR UNFILED APPLICATION FOR UNITED STATES
PATENT

(Sole or Joint Inventors)

WHEREAS:

FULL NAME(S) AND
POST OFFICE ADDRESS(S)
OF INVENTOR(S) (including
country)

Joel Adam
25 Doniport Road
Baden, PA 15005
United States

Joseph C. Kantz
116 Stickle Road
Beaver Falls, PA 15010
United States

(hereinafter referred to as ASSIGNOR), have invented and
own a certain invention entitled:

A HYBRID SCHEME FOR QUEUING IN A SHARED MEMORY
ATM SWITCH BUFFER

TITLE OF
INVENTION

for which application for Letters Patent of the United States
has been executed on even date herewith.

WHEREAS:

FULL NAME AND
ADDRESS (including country)
OF ASSIGNEE

FORE Systems, Inc.
1000 FORE Drive
Warrendale, PA 15086
United States

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:
Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

(Assignment for Unfiled Application for United States Patent [16-1]—page 1 of 2)

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale:

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand
and seal this 5/13/98
(Date of Signing)

Warning
DATE OF SIGNING:

This must be the same as the date of signing of the declaration and power of the patent or design application.

(Signature) Joel Adam

(Signature) Joseph L. Katz

(Signature) _____

SIGNATURE(S) The signature(s) must correspond with the name(s) of the inventor(s) above.

Instruction sheet for assignment-
Signing

All information, names of inventor(s) and assignee, title of invention and particulars of application should be completed. No witnessing or legalization is necessary. However, if this assignment is legalized then it will only be prime facie evidence of the execution of the assignment.

(Assignment for Unified Application for United States Patent [16-1]—page 2 of 2)

PATENT OR DESIGN: SOLE OR JOINT
(U.S. and Foreign Rights)

ASSIGNMENT FOR UNFILED APPLICATION FOR UNITED STATES
PATENT

(Sole or Joint Inventors)

WHEREAS:

FULL NAME(S) AND
POST OFFICE ADDRESS(S)
OF INVENTOR(S) (including
country)

Mahesh N. Ganmukhi
4229 Haddon Place
Wexford, PA 15090
United States

Brian L. Jordan
804 E. Hutchinson Avenue
Pittsburgh, PA 15218
United States

(hereinafter referred to as ASSIGNOR), have invented and
own a certain invention entitled:

METHOD AND APPARATUS FOR MANIPULATING AN ATM CELL

TITLE OF
INVENTION

for which application for Letters Patent of the United States
has been executed on even date herewith.

WHEREAS: Fore Systems, Inc.
174 Thorn Hill Road
Warrendale, PA 15086-7535
United States

FULL NAME AND
ADDRESS (including country)
OF ASSIGNEE

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:
Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

(Assignment for Unified Application for United States Patent [16-1]—page 1 of 2)

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

Warning:
DATE OF SIGNING:
This must be the same as the date of signing of the declaration and power of the patent or design application.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 1/27/95

(Date of Signing)

(Signature)

(Signature)

(Signature)

SIGNATURE(S) The signature(s) must correspond with the name(s) of the inventor(s) above.

Instruction sheet for assignment-Signing

All information, names of inventor(s) and assignee, title of invention and particulars of application should be completed. No witnessing or legalization is necessary. However, if this assignment is legalized then it will only be prime facie evidence of the execution of the assignment.

(Assignment for Unified Application for United States Patent [16-1]—page 2 of 2)