M PTO-1595 (6:11:0) REC 06-13-	-2001 SHEET U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
O:MB No. 0651-0011 (exp. 4/94) Tab settings □ □ ▼	
To the Honorable Commissioner of Page 10174	7471 tached original documents or copy thereof.
Name of conveying party(ies):	Name and address of receiving party(ies)
FORE Systems, Inc.	Name: Marconi Communications, Inc.
Additional name(s) of conveying party(ies) attached? Yes No	Internal Address:
3. Nature of conveyance:	:
☐ Assignment ☐ Merger	Street Address: 1000 Marconi Drive
☐ Security Agreement ☐ Change of Name	
☐ Other	City: Warrendale State: PA ZIP: 15086
Execution Date:	Additional name(s) & address(es) attached? Yes X No
4. Application number(s) or patent number(s):	
If this document is being filed together with a new applicatio	n, the execution date of the application is:
A. Patent Application No.(s) 09/608,771 09/608,241 09/609,177 09/609,497 09/609,653 Additional numbers at	B. Patent No.(s)
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 9
Name: Ansel M. Schwartz	7. Total fee (37 CFR 3.41)\$ 360.00
Internal Address:	
	 Authorized to be charged to deposit account
Street Address: 201 N. Craig Street, Suite 304	8. Deposit account number:
City: Pittsburgh State: PA ZIP: 15213	(Attach duplicate copy of this page if paying by deposit account)
DO NOT US	E THIS SPACE
9. Statement and signature. To the best of my knowledge and belief, the foregoing informathe original document. Ansel M. Schwartz Name of Person Signing	nation is true and correct and any attached copy is a true copy of Signature Date
	cover sheet, attachments, and document:

Practitioner's Docket No.	MARCONI
Practitioner's Docket No.	1211001,1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CHANGE OF NAME IN RECORDED ASSIGNMENTS

Particulars of assignments

4.	raiticulais of ususjiiiioiiio
	A list of assignments recorded against patent applications and/or patents is set forth on attached page.
2.	Old name of assignee
7	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
٦	The new name of the assignee is
	Marconi Communications, Inc.
	(type or print new name of Assignee)
4.	Proof of name change
F	Proof of assignee's change of name is established by the attached
	CX certificate of the Secretary of State of
	showing the name change. (type name of state)
	certificate of name change from: (type or print name of authority)
	(type or print name or 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

Reg. No.: 30,587

Tel. No.: (412) 621-9222

Ansel M. Schwartz

(type or print name of practitioner) 201 N. Craig Street

Suite 304

P.O. Address

Customer No.:

Pittsburgh, PA 15213

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

6/30/00 6/30/00		10/31/00		
6/30/00		10/31/00	011221	0465
		11/27/00	011352	0916
6/30/00		11/27/00	011319	0748
6/30/00		6/30/00	010935	0008
6/30/00	·	11/27/00	011352	0877
6/30/00		11/27/00	011352	0923
6/30/00		6/30/00	010939	0924
5/15/98		5/15/98	9188	0142
7/26/96		1/31/95	7346	0899
	6/30/00 6/30/00 6/30/00 6/30/00 5/15/98	6/30/00 6/30/00 6/30/00 6/30/00 5/15/98	6/30/00 6/30/00 6/30/00 11/27/00 6/30/00 11/27/00 6/30/00 6/30/00 5/15/98 5/15/98	6/30/00 6/30/00 010935 6/30/00 11/27/00 011352 6/30/00 11/27/00 011352 6/30/00 6/30/00 010939 5/15/98 5/15/98 9188

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)

Office of the Secretary of State

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.



Darriet Smith Windson Harriet Smith Windson, Secretary of State

2316994 8100M

010175586

AUTHENTICATION: 1074802

DATE: 04-10-01

PATENT

REEL: 011873 FRAME: 0873

216 621 4059 P.04/06

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

PATENT

REEL: 011873 FRAME: 0874

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. "

Page 2

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.

3y. _____

/alerie Gentile Sa

Secretary

Page 3

Attorney's Docket No. FORE-	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
ASSIGNMEN	r of invention
(\$1.00), the receipt of which is hereby acconsideration,	IGNEE to ASSIGNOR of the sum of One Dolla knowledged, and for other good and valuable
ASSIGNOR:	(see attached)
Inventor(s) or person(s) or entity(ies) who own the invention	(type or print name(s) of ASSIGNOR(S))
	Address
	Nationality
	whom invention was previously assigned in PTO, add the following)
Recorded on	Reel
	Frame
hereby sells, assigns and transfers to	
	FORE Systems, Inc.
ASSIGNEE:	(type or print name(s) of ASSIGNEE(S))
	1000 FORE Drive
	Address
	Warrendale, PA 15086
	United States
	Nationality
and the successors, assigns and legal rep	resentatives of the ASSIGNEE

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

(complete one of the following)

	X	the entire right, title and interest
		an undivided percent (%) interest
for th	ne U	nited States and its territorial possessions
		(check the following box, if foreign rights are also to be assigned)
	X	and in all foreign countries, including all rights to claim priority,
		any and all improvements which are disclosed in the invention entitled: METHOD AND SWITCH FOR AN MPLS NETWORK AND AN ATM NETWORK
Vam	e 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 v	which	n 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 appliciation 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)

or desi	rable to carry out the purposes t	aid equivalents thereof which may be necessary hereof.
IN W	ITNESS WHEREOF, I/We have h	ereunto set hand and seal this6+h day
of	October 2000 Date of signing	me as the date of execution of the application, if item (a) was
	checked above. 10/6/2000	Making Man Sund Plant Company of the State of the Sund Plant Company o
Date:		Signature of ASSIGNOR(S)
Date:		
Date:		
Date:		
	(if ASSIGNOR is a legal entity	(type or print the name of the above person
		authorized to sign on behalf of ASSIGNOR)
		Title
NOTE:	it will only be prima facile evidence of exe	is necessary. If the assignment is notarized or legalized, then cution. 35 USC 261. Use next page if notarization is desired. Legalization Page Added.
	☐ Notarization or	(Assignment of Invention [16-3]—page 3 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

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	P	ATENT
	For: 🔀 U.S. U.S. For: U.S. For: PCT	and/or 🛛 Foreign Rights Application or Provisional Application Patent Application ntor(s) or 🗆 Present Own	
AS	SIGNMENT OF INVEN	NTION	
In consideration of the payn (\$1.00), the receipt of which i consideration,	<u> </u>		
ASSIGNOR:	Ronald P.	Bianchini, Jr.	Joseph C. Kantz
inventor(s) or person(s) or entity(ies) who own the	-	name(s) of ASSIGNOR(S))	
invention	326 Olde (Chapel Trail	116 Stickle Road
	Address		
	Pittsburg	h, PA 15238	Beaver Falls, PA 150
	United St	ates	United States
	Nationality		
(if assignment is by person and this w	n or entity to whom inver as recorded in PTO, add	ntion was previously as the following)	ssigned
Recorded on	Reel		
necoluct on	Frame		
hereby sells, assigns and trans	sfers to		
	FORE Sy	stems, Inc.	
ASSIGNEE:	(type or print n	name(s) of ASSIGNEE(S))	
	1000 FO	RE Drive	
	Address		
	Warrend	ale, PA 15086	
	United	States	
	Nationality		
and the successors, assigns a	and legal representatives	of the ASSIGNEE	

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

(complete one of the following) fa

	Ronald P. Bianchini, Jr., Joseph C. Kantz			
in and to any and all improvements which are disclosed in the invention entitled: RECEIVER MAKES RIGHT				
$\overline{\mathbf{X}}$	and in all foreign countries, including all rights to claim priority,			
	(check the following box, if foreign rights are also to be assigned)			
for the United States and its territorial possessions				
	an undivided percent (%) interest			
	and drains rightly and directions			
X	the entire right, title and interest			

\ ,	_	the property of the same of th
(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 ASSIGNOF signing below, hereby authorize and request my attorney to insert below the filling
date and application number when they become known.

(d)	X	U.S. application no.	09/_608,241
		filed on $\frac{6/30/00}{}$	

(e)		International appliciation no. F	PCT///	_
/ 5		II C motort no	issued	_

)		s. patent no.
		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)

or affidavits required to apply for, obtain, r	
IN WITNESS WHEREOF, I/We have her	reunto set hand and seal this 11th day
checked above.	the as the date of execution of the application, if item (a) was $\mathcal{P} = \mathcal{P} = \mathcal{P} = \mathcal{P} = \mathcal{P}$
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 it will only be prima facie evidence of execu	s necessary. If the assignment is notarized or legalized, then ution. 35 USC 261. Use next page if notarization is desired.
	egalization Page Added.
	(Assignment of Invention [16-3]—page 3 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

Attorney's Docket NoFORE-6	PA PA	TENT
	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 Own	·
ASSIGNMI	ENT OF INVENTION	
	ASSIGNEE to ASSIGNOR of the sum of acknowledged, and for other good ar	
ASSIGNOR:	Ronald P. Bianchini, Jr.	Joseph C. Kantz
Inventor(s) or person(s) or entity(ies) who own the	(type or print name(s) of ASSIGNOR(S))	-
invention	326 Olde Chapel Trail	116 Stickle Road
	Address	
	Pittsburgh, PA 15238	Beaver Falls, PA 1501
	United States	United States
	Nationality	
(if assignment is by person or entite and this was record	ty to whom invention was previously as ded in PTO, add the following)	signed
Recorded on	Reel	
	Frame	
hereby sells, assigns and transfers to		
	FORE Systems, Inc.	
ASSIGNEE:	(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	

(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)	
In 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-entiti invention.	∌d
Express mail label no.:	
Mailed:	
To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNC signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.	
(d) X 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 pater maintenance fees is being sent separately. 	ηţ
(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 are eissue or re-examination thereof	n Iy
ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has	is

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)

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 ______ TH___ day SEPTEMBER 20∞ 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. Signature of ASSIGNORISI 91712000 Date: 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.

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

PATENT REEL: 011873 FRAME: 0886

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

Attorney's Docke	et NoFORE-63	3	_	F	PATENT	
	•	For: 🔯 U.S. For: 🔯 U.S. U.S. For: 🗆 U.S. For: 🗆 PCT By: 🔯 Inven	Application Provisional Patent Application	or Application		
	ASSIGNMENT	r of inven	ITION			
	f the payment by ASS of which is hereby ac					
		Fan Zhou		Jose	eph A. Hook	
Inventor(s) or person(s) or entity(ies) who own the		(type or print n	name(s) of AS	SSIGNOR(S))		
invention	2009 Timberline	Lane Suya	T Lane	765	226 Foxgoo	ve Drive
,	2009 Timberline, petaluma, CA9	Robbiert F	N.	24.9 78	Baden, PA	15005
		United St	ates		United Sta	tes
		Nationality				
. •	by person or entity to and this was recorded				assigned	
Recorded on		Reel				
		Frame				
hereby sells, assigns	and transfers to					
ASSIGNEE:		FORE Sys	stems, I	nc.		
433191122		(type or print na	ame(s) of AS	SIGNEE(S))		
		1000 FO	RE Drive			
		Address				
		Warrenda	ale, PA	15086		
		United S	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) IX 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 Fan Zhou, Joseph A. Hook Name of inventor(s) ____ (check and complete (a), (b), (c), (d), (e), (f) or (g)) and which is found in U.S. patent application executed on even date herewith U.S. patent application executed on _ (p) U.S. provisional application naming the above inventor(s) for the above-entitled (C) invention. Express mail label no.: _____ 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. 09/609,298 U.S. application no. (d) 🔯 filed on 6/30/00 International appliciation no. PCT/ ______/___/ (e) U.S. patent no. ______ issued _____ (f) A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

priority and, in and to, all Letters Patent to be obtained for said invention by the above application

(g) \square

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

and any legal equivalent thereof in a foreign country, including the right to claim

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)

inventi		maintain, issue and enforce said application, said aid equivalents thereof which may be necessary nereof.
IN W	ITNESS WHEREOF, I/We have he	ereunto set hand and seal this $\frac{Z64h}{}$ day
of	Oct., 2000 Date of signing	
WARN	ING: The date of signing must be the san checked above.	ne as the date of execution of the application, if item (a) was
Date:	10/26/2000	Mou
		Signature of ASSIGNOR(S)
Date:		
Date:		
Date:		
	(if ASSIGNOR is a legal entity,	(type or print the name of the above person authorized to sign on behalf of ASSIGNOR)
		Title
NOTE:	it will only be prima facile evidence of exec	is necessary. If the assignment is notarized or legalized, then cution. 35 USC 261. Use next page if notarization is desired. Legalization Page Added.
		(Assignment of Invention [16-3]—page 3 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

Attorney's Docket No	FORE-63	PATENT
	For: 🛛 U.S. and/or 🖾	Foreign Rights
	For: 🔯 U.S. Application	
	U.S. Provision	
	For. 🗌 U.S. Patent	•
	For: PCT Application	
	By: 😰 Inventor(s) or [Present Owner
A	ASSIGNMENT OF INVENTION	
(\$1.00), the receipt of which consideration,	yment by ASSIGNEE to ASSIGNOR is hereby acknowledged, and for	
ASSIGNOR:	Fan Zhou	Joseph A. Hook
inventor(s) or person(s) or entity(ies) who own the	(type or print name(s) of i	
nvention	(type or print name(s) or i	A33/G/VOA(3))
	5425 Snyder Lane	#65 226 Foxgoove Drive
	Address	
	Rohnert Park, CA	94928 Baden, PA 15005
	United States	United States
, ,	United States	United States previously assigned
, ,	United States Nationality son or entity to whom invention was was recorded in PTO, add the follow	United States previously assigned
and this	United States Nationality son or entity to whom invention was was recorded in PTO, add the follow Reel	United States previously assigned wing)
and this	United States Nationality son or entity to whom invention was was recorded in PTO, add the follow Reel Frame	United States previously assigned wing)
and this name and this name and this name and the name an	United States Nationality son or entity to whom invention was was recorded in PTO, add the follow Reel Frame	United States previously assigned wing)
and this	United States Nationality son or entity to whom invention was was recorded in PTO, add the follow Reel Frame Insfers to	United States previously assigned wing)
and this in Recorded on	United States Nationality son or entity to whom invention was was recorded in PTO, add the follow Reel Frame Insfers to FORE Systems,	United States previously assigned wing) Inc. ASSIGNEE(S))
and this in Recorded on	United States Nationality son or entity to whom invention was was recorded in PTO, add the follow Reel Frame Insfers to FORE Systems, (type or print name(s) of A	United States previously assigned wing) Inc. ASSIGNEE(S))
and this name and this name and this name and the name an	United States Nationality son or entity to whom invention was was recorded in PTO, add the follow Reel Frame Insfers to FORE Systems, (type or print name(s) of A	United States previously assigned wing) Inc. ASSIGNEE(S))
and this in Recorded on	United States Nationality son or entity to whom invention was was recorded in PTO, add the follow Reel Frame Insfers to FORE Systems, (type or print name(s) of Address	United States previously assigned wing) Inc. ASSIGNEE(S))

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

(complete one of the following) IX 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 U.S. patent application executed on even date herewith (a) U.S. patent application executed on _____ (p) U.S. provisional application naming the above inventor(s) for the above-entitled (c) \Box 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) \(\overline{\text{U.S. application number when they become known.}} \)

(d) \(\overline{\text{U.S. application no.}} \) \(\frac{609,298}{1000} \)

(e) \(\overline{\text{International application no.}} \) \(\overline{\text{PCT/}} \) \(\overline{\text{U.S. patent no.}} \) \(\overline{\text{U.S. patent no.}} \) \(\overline{\text{issued}} \)

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)

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 _____ law__ day WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above. 9/12/2000 Date: 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)

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

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

Jeff Schulz 114 Denny Road Valencia, PA 16059

United States 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

FULL NAME AND ADDRESS (including country) OF ASSIGNEE

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 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, 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.

WITNESS	WHEREOF, I/W	e have	hereunto	set hand
and seal	This JUNE	9.20	9 0 0 -	
	Data	- E1		

(0.3)

(Signature)

SIGNATURE(S) The signature(s) must correspond with the numetal of the inventors) 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. T PCT Application
	By: 🛱 Inventor(s) or 🗌 Present Owner
ASSIGNM	MENT OF INVENTION
In consideration of the payment by (\$1.00), the receipt of which is hereb consideration,	ASSIGNEE to ASSIGNOR of the sum of One Dollar by acknowledged, and for other good and valuable
ASSIGNOR:	(
Inventor(s) or person(s) or	(see attached)
entity(ies) who own the invention	(type or print name(s) of ASSIGNOR(S))
	Address
	Nationality
(if assignment is by person or ent	ity to whom invention was previously assigned
· · · · · · · · · · · · · · · · · · ·	ded in PTO, add the following)
Recorded on	Reel
	Frame
hereby sells, assigns and transfers to	
ASSIGNEE:	FORE Systems, Inc.
ASSIGNEL.	(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

Attorney's Docket No. _____FORE-66

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

PATENT REEL: 011873 FRAME: 0895

PATENT

(complete one of the following)

□ an undivided percent (☑ the entire right, title and 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) 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 filting date and application no. (d) U.S. application no. 09 / 609,177 filed on 6/30/00 (e) International appliciation no. PCT/ M.S. patent no. 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 continuation, division, renewal, or substitute thereof, and as to letters patent any continuation of the said invention by the above applications or any continuation thereof	
□ 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) 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. 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 filling 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/ □ U.S. patent no. □ 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 actions or re-examination thereof	
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Name of inventor(s) 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. 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 appliciation no. PCT/ J.S. patent no. 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 division or renewal and thereof.	·
Schulz, Matthew Leper and Ronald P. Bianchini, Jr.	DRIFT AND TRANSPORT DELAY
and which is found in (a) □ U.S. patent application executed on even date herewith (b) □ U.S. patent application executed on	
and which is found in (a) ☐ U.S. patent application executed on even date herewith (b) ☐ U.S. patent application executed on	Schulz, Matthew Leper and Ronald P. Bianchini, Jr.
 (a) ☐ U.S. patent application executed on even date herewith (b) ☐ U.S. patent application executed on	(check and complete (a), (b), (c), (d), (e), (f) or (g))
 (b) ☐ U.S. patent application executed on	and which is found in
(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 appliciation no. PCT//	(a) U.S. patent application executed on even date herewith
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. 109 / 609,177 11ed on 6/30/00 12 International appliciation no. PCT/ issued A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately. 12 (also check (g), if foreign application(s) is also being assigned) 13 and any legal equivalent thereof in a foreign country, including the right to claim priority 14 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 renewal or renewal or renewal or renewal or renewal and the record of the	(b) U.S. patent application executed on
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□ 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 appliciation no. PCT/ // // // // (f) □ U.S. patent no. issued // // // // // // // // // // // // //	Express mail label no.:
signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known. (d) V.S. application no. 09 / 609,177 filed on 6/30/00 (e) International appliciation no. PCT/ // (f) U.S. patent no	Mailed:
filed on 6/30/00 (e) International appliciation no. PCT/ // // // // // // // // // // // // /	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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(f) U.S. patent no	filed on
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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 resexamination thereof	(f) U.S. patent noissued
(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 resexamination thereof	A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.
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 research or re-examination thereof	
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reissue of re-examination and that no assignment sale, agreement or encumbrance has	or any continuation, division, renewal, or substitute thereof, and as to lotted p
ASSIGNOR hereby coveriants that no assignment, delor as	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)

invention and said Letters Patent and said or desirable to carry out the purposes the				
IN WITNESS WHEREOF, I/We have hereunto set hand and seal this i7th day				
of 9 2000 Date of signing	e as the date of execution of the application, if item (a) was			
Date: 9/17/100	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 l	egalization Page Added.			
	(Assignment of Invention [16-3]—page 3 of 3)			

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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
ASSI	GNMENT OF INVENTION
	nt by ASSIGNEE to ASSIGNOR of the sum of One Dolla nereby acknowledged, and for other good and valuable
	(see attached)
Inventor(s) or person(s) or entity(ies) who own the invention	(type or print name(s) of ASSIGNOR(S))
	Address
(if assignment is by person o	Nationality or entity to whom invention was previously assigned
•	recorded in PTO, add the following)
Recorded on	Reel
	Frame
hereby sells, assigns and transfe	rs to
-	FORE Systems, Inc.
ASSIGNEE:	(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

Attorney's Docket No. FORE-66

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

PATENT

(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)
図 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.
, and the second
(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 appliciation 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)

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 ______ lay WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above. 9/18/00 Date: 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)

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Attachment to ASSIGNMENT OF INVENTION

Jeff Quirke 6642 Woodwell Street Pittsburgh, PA 15217 United States

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Matthew Leper 303 Woodlands Drive Zelienople, PA 16063 United States

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

Attorney's Docket No	FORE-66	PATENT
	For: ☒ U.S. Applica ☐ U.S. Provisi For: ☐ U.S. Patent For: ☐ PCT Applica	onal Application
ASS	IGNMENT OF INVENTION	1
In consideration of the payme (\$1.00), the receipt of which is consideration, ASSIGNOR:		or other good and valuable
Inventor(s) or person(s) or	(see attach	ed)
entity(ies) who own the invention	(type or print name(s)	of ASSIGNOR(S))
	Address	
	Nationality or entity to whom invention we recorded in PTO, add the fo	
Recorded on	Reel	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Frame	
hereby sells, assigns and transf	ers to	
ASSIGNEE:	FORE Systems	, Inc.
	(type or print name(s)	(type or print name(s) of ASSIGNEE(S))
	1000 FORE Dr	ive
	Address	
	Warrendale,	PA 15086
	United State	es
	Nationality	
and the successors, assigns an	id 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
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🗓 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.
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(a) U.S. patent application executed on even date herewith
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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 roissue or re-examination thereof
and the second s
ASSIGNOR hereby coverlants that no assignment, been or will be made or entered into which would conflict with this assignment;

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

		maintain, issue and enforce said application, said additional aid equivalents thereof which may be necessary
	irable to carry out the purposes the	
	/ITNESS WHEREOF, I/We have he	$\mathcal{L}_{\mathcal{L}_{\mathbf{k}}}$
of S	Date of signing	
WARN	IING: The date of signing must be the sai checked above.	me as the date of execution of the application, if item (a) was
Date:	9-18-2000	Signature of ASSIGNOR(S)
Date:		
Date:		
Date:		
	(if ASSIGNOR is a legal entity	(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 cution. 35 USC 261. Use next page if notarization is desired.
	Notarization or	Legalization Page Added.
		(Assignment of Invention [16-3]—page 3 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

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
ASSIGNMEN	T OF INVENTION
· · · · · · · · · · · · · · · · · · ·	SIGNEE to ASSIGNOR of the sum of One Dolla eknowledged, and for other good and valuable
	(see attached)
Inventor(s) or person(s) or entity(ies) who own the invention	(type or print name(s) of ASSIGNOR(S))
	Address
	Nationality
	o whom invention was previously assigned in PTO, add the following)
Recorded on	Reel
110001000 011	Frame
hereby sells, assigns and transfers to	
	FORE Systems, Inc.
ASSIGNEE:	(type or print name(s) of ASSIGNEE(S))
	1000 FORE Drive
	Address
	Warrendale, PA 15086
	United States
	Nationality
and the successors, assigns and legal rep	

Attorney's Docket No. FORE-66

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

PATENT REEL: 011873 FRAME: 0907

PATENT

(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 $\frac{6/30/00}{}$
(e) International appliciation 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
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)

or affidavits required to apply for, obtain, r	al representatives any and all papers, instruments maintain, issue and enforce said application, said id equivalents thereof which may be necessary ereof.
IN WITNESS WHEREOF, I/We have her	reunto set hand and seal this 28th day
of September 2000 Date of signing	
WARNING: The date of signing must be the same checked above.	ne as the date of execution of the application, if item (a) was
Date: 28 Sigtember 7000	Signature of ASSIGNOR(S)
Data	oignature of AssignOH(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 it will only be prima facile evidence of execu	necessary. If the assignment is notarized or legalized, then ution. 35 USC 261. Use next page if notarization is desired.
☐ Notarization or L	egalization Page Added.
	(Assignment of Invention [16-3]—page 3 of 3)

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-Matthew Leper-

-Matthew Leper Matther J Lepper 303 Woodlands Drive 1076 North Ave. Zelienople, PA 16063 P. ttsburgh, PA 15238

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

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	
ASSIGNMEN	T OF INVENTION	
(\$1.00), the receipt of which is hereby acconsideration,	SIGNEE to ASSIGNOR of the sum of One Dolla eknowledged, and for other good and valuable	
ASSIGNOR:	(see attached)	
Inventor(s) or person(s) or entity(ies) who own the invention	(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		
	FORE Systems, Inc.	
ASSIGNEE:	(type or print name(s) of ASSIGNEE(S))	
	1000 FORE Drive	
	Address	
	Warrendale, PA 15086	
	United States	
	Nationality	
and the successors, assigns and legal rep	presentatives of the ASSIGNEE	

Attorney's Docket No. FORE-66

(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,
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.
bending, matchew heper and konard r. branchini, 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 appliciation 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
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ASSIGNOR hereby covenants that no assignment, sale, agreements that no assignment, sale, agreement that no assignment that no assi

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

inventio		maintain, issue and enforce said application, said addition and equivalents thereof which may be necessary nereof.
IN W	ITNESS WHEREOF, I/We have he	ereunto set hand and seal this day
of No	Date of signing	
WARN	ING: The date of signing must be the sar checked above.	me as the date of execution of the application, if item (a) was
Date:	11/11/00	RUP. Ref
	,	Signature of ASSIGNOR(S)
Date:		
Date:		
Date:		
	(if ASSIGNOR is a legal entity	type or print the name of the above person authorized to sign on behalf of ASSIGNOR)
		aumonzed to sign on benan or Addication,
		Title
NOTE:	No witnessing, notarization or legalization	is necessary. If the assignment is notarized or legalized, then cution. 35 USC 261. Use next page if notarization is desired.
	Notarization or	Legalization Page Added.
	_	(Assignment of Invention [16-3]—page 3 of 3)

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Matthew Leper 303 Woodlands Drive Zelienople, PA 16063 United States

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

Attorney's Docket No. FORE-68	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
ASSIGNME	NT OF INVENTION
	SSIGNEE to ASSIGNOR of the sum of One Dollar acknowledged, and for other good and valuable
nventor(s) or person(s) or	(see attached)
entity(ies) who own the nvention	(type or print name(s) of ASSIGNOR(S))
	Address
	Nationality
, · · · · · · · · · · · · · · · · · · ·	to whom invention was previously assigned d in PTO, add the following)
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nereby sells, assigns and transfers to	
	FORE Systems, Inc.
ASSIGNEE:	(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

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

(complete one of the following)

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) X U.S. application no. 09 / 609,497 filed on 6/30/00
The standard conficiency of PCT/
icayed
 (f) U.S. patent no
(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)

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 WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above. 11/11/00 Date: 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)

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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

Attorney's Docket No. FORE-68	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: Dinventor(s) or Present Owner
ASSIGNME	ENT OF INVENTION
(\$1.00), the receipt of which is hereby consideration,	ASSIGNEE to ASSIGNOR of the sum of One Doilar acknowledged, and for other good and valuable
ASSIGNOR: Inventor(s) or person(s) or	(see attached)
entity(ies) who own the nvention	(type or print name(s) of ASSIGNOR(S))
	Address
	Nationality
•	to whom invention was previously assigned ed in PTO, add the following)
Recorded on	Reel
	Frame
ereby sells, assigns and transfers to	
SSIGNEE:	FORE Systems, Inc.
SSIGNEL.	(type or pnnt 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

(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, 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.

signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known. 09 / 609,497 U.S. application no. (d) X filed on 6/30/00U.S. patent no. ______ issued _____ (f) 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) and any legal equivalent thereof in a foreign country, including the right to claim

To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR

Express mail label no.: ______

Mailed: _

(g) 🗆

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

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

to the same in any interference, litigation execute and deliver to ASSIGNEE or its leg or affidavits required to apply for, obtain,	
WARNING: The date of signing must be the san checked above.	ne as the date of execution of the application, if item (a) was
Date: 9-18-2000	Signature of ASSIGNOR(S)
Date:	
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(if ASSIGNOR is a legal entity,	(type or print the name of the above person authorized to sign on behalf of ASSIGNOR)
	Title
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Joseph A. Hook 226 Foxgoove Drive Baden, PA 15005 United States

Attorney's Docket No. FORE-68	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
ASSIGNMEN	NT OF INVENTION
	SSIGNEE to ASSIGNOR of the sum of One Dolla acknowledged, and for other good and valuable
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
	to whom invention was previously assigned d in PTO, add the following)
Recorded on	Reel
	Frame
nereby sells, assigns and transfers to	
ASSIGNEE:	FORE Systems, Inc.
Columbia.	(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

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

(complete one of the following)

	X	the entire right, title and interest					
		an undivided percent (%) interest					
for th	e Ur	nited States and its territorial possessions					
	(check the following box, if foreign rights are also to be assigned)						
	$\overline{\mathbf{x}}$	and in all foreign countries, including all rights to claim priority,					
		any and all improvements which are disclosed in the invention entitled: ESYNCH: SYNCHRONOUS REAL-TIME UPGRADE OF A DISTRIBUTED					
		CHING SYSTEM					
Name	of	nventor(s) Ronald P. Bianchini, Jr., Jeff Schulz, Veera Reddy					
Jos	eph	A. Hook					
		(check and complete (a), (b), (c), (d), (e), (f) or (g))					
and w	hich	is found in					
(a)		U.S. patent application executed on even date herewith					
(b)		U.S. patent application executed on					
(c)	(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)	$\overline{\mathbf{x}}$	U.S. application no. 09 / 609,497					
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\.		and any legal equivalent thereof in a foreign country, including the right to claim priority					
or any	cor	to, all Letters Patent to be obtained for said invention by the above application in the street to be obtained for said invention by the above application is to letters patent any strinuation, division, renewal, or substitute thereof, and as to letters patent any					
reissu	e or	re-examination thereof OR hereby covenants that no assignment, sale, agreement or encumbrance has					
ASSIGNOR hereby covenants that he assignment, said, ag.							

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)

to the same in any interference, litigation execute and deliver to ASSIGNEE or its leg or affidavits required to apply for, obtain, it	- 1 CA
of Sep. 2000. Date of signing	
WARNING: The date of signing must be the sam checked above.	ne as the date of execution of the application, if item (a) was
Date: 9/18/00	Signature of ASSIGNOR(S)
Date:	
Date:	
Date:	
(if ASSIGNOR is a legal entity,	(type or print the name of the above person authorized to sign on behalf of ASSIGNOR)
	authorized to sign on behalf of Addicated hy
•	Title
it will only be prima facile evidence of exec	s necessary. If the assignment is notarized or legalized, then nutrion. 35 USC 261. Use next page if notarization is desired.
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Veera Reddy 5011 Sutton Place Extension Wexford, PA 15090 United States

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

Attorney's Docket No. FORE-68	PATENT		
	For: 🔯 U.S. and/or 🔯 Foreign Rights For: 🔯 U.S. Application or U.S. Provisional Application For: U.S. Patent		
	For: U.S. Patent For: PCT Application By: Inventor(s) or Present Owner		
ASSIGNME	NT OF INVENTION		
	SSIGNEE to ASSIGNOR of the sum of One Dolla acknowledged, and for other good and valuable		
Inventor(s) or person(s) or	(see attached)		
entity(ies) who own the invention	(type or print name(s) of ASSIGNOR(S))		
	Address		
	Nationality		
· · · · · · · · · · · · · · · · · · ·	to whom invention was previously assigned d in PTO, add the following)		
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	Frame		
hereby sells, assigns and transfers to			
ASSIGNEE:	FORE Systems, Inc.		
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(Assignment of Invention [16-3]—page 1 of 3)

(complete one of the following)

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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
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(also check (g), if foreign application(s) is also being assigned)
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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
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(Assignment of Invention [16-3]—page 2 of 3)

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

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

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

ASSIGNMENT FOR UNFILED APPLICATION FOR UNITED STATES PATENT

(Sole or Jaint 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, 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 dare of signing of the declaration and power of the putent or design application.

N	WIT	NE5	s Wi	IEBEOF	, I/We	have	hereunto	set hand
	and	seal	this	راضنو	29.	2000	>	set hand
		J-01			(Date of	Slanin	a)	

All	20_		
(Signature)	0		
(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

for which application for Latters 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 county) 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 Bollar (\$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.

and seal this	5/13/43
(Date of Signing)	
Lord adam	
Signature: Arabl C. Kort	
Signature)	
Signature)	

IN WITNESS WHEREOF, I/We have hereunto set hand

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

(Sale 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 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, 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)

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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) Signature)

.

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

(Signature)

Instruction sheet for assignment-Signing

RECORDED: 06/11/2001

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)