

Correspondent Name and Address Area Code and Telephone Number: (913) 624-6668

Name: Harley R. Ball

Address (line 1): Sprint Communications Company, L. P.

Address (line 2): Mail:top: MOKCMP0506

Address (line 3): 8140 Ward Parkway

Address (line 4): Kansas City, MO 64114

Pages Enter the total number of pages of the attached conveyance document including any attachments. # 8

Application Number(s) or Patent Number(s) 08 8 2664 Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)			Patent Number(s)		
08/826,641					

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor. Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number PCT PCT
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Number of Properties Enter the total number of properties involved. # 1

Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

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Authorization to charge additional fees: Yes No

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. Charges to deposit account are authorized, as indicated herein.

Eugene G. Kim *Eugene Kim* 3/30/00
Name of Person Signing Signature Date

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) DeNap, Frank Anthony

Execution Date
Month Day Year
04041997

Name (line 2)

Name (line 1) Strand III, John Arndt

Execution Date
Month Day Year
04041997

Name (line 2)

Name (line 1) Edwards, William L.

Execution Date
Month Day Year
04041997

Name (line 2)

Receiving Party(ies)

Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

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Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) Gorman, Bryan Lee

Execution Date
Month Day Year
04041997

Name (line 2) _____

Name (line 1) Murat, Bog

Execution Date
Month Day Year
04041997

Name (line 2) _____

Name (line 1) Michael Swink Thomas

Execution Date
Month Day Year
04041997

Name (line 2) _____

Receiving Party(ies)

Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1) _____

Name (line 2) _____

Address (line 1) _____

Address (line 2) _____

Address (line 3) _____
City State/Country Zip Code

Name (line 1) _____

Name (line 2) _____

Address (line 1) _____

Address (line 2) _____

Address (line 3) _____
City State/Country Zip Code

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Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

**ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR
LETTERS PATENT OF THE UNITED STATES OF AMERICA**

I hereby declare that I am the sole inventor (if only one inventor is named below) or an original, first and joint inventor (if plural inventors are named below) of the invention relating to "TELECOMMUNICATIONS SYSTEM" described in an application for Letters Patent of the United States of America filed on April 4, 1997, Application No. 08/826,641, or, if not identified here by filing date and serial number, executed by me on even date with my execution of this Assignment.

For valuable consideration received, I hereby sell, assign and transfer to Sprint Communications Company L.P., a corporation duly organized and existing under the laws of the State of Delaware, United States of America, its successors and assigns, my entire right, title and interest, for all countries in and to said inventions and all the rights and privileges under any and all Letters Patent that may be granted therefore, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees. If I fail to perform those acts requested in the previous sentence, damages will be the amount of any honorarium that I received for this invention(s). This will not preclude Sprint or its successors, assigns and nominees from taking any action for securing, maintaining, or vesting title to Sprint, or its successors, assigns and nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this Assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with Sprint Communications Company L.P., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have the full right to convey the same as herein expressed.

This Agreement and Assignment supersedes all other assignments, agreements and addendums related to the above identified application.

After this Assignment has been recorded, please return it to :

Attn Harley R. Ball
Sprint Law Department
8140 Ward Parkway
Mailstop: MOKCMP0506
Kansas City, Missouri 64114

**PATENT
REEL: 010735 FRAME: 0552**

SOLE or JOINT INVENTOR

Inventor: Martin Joseph Kaplan _____
(Printed Name) (Signature)

Citizenship: USA Citizen Date: _____

Post Office Address:

Residence: 10902 Cedar Niles Circle, Olathe, Kansas 66061

1st Witness: _____
(Type or Print) (Signature)

2nd Witness: _____
(Type or Print) (Signature)

SOLE or JOINT INVENTOR

Inventor: Frank Anthony DeNap _____
(Printed Name) (Signature)

Citizenship: USA Citizen Date: _____

Post Office Address:

Residence: 10324 Walmer, Overland Park, Kansas 66212

1st Witness: _____
(Type or Print) (Signature)

2nd Witness: _____
(Type or Print) (Signature)

SOLE or JOINT INVENTOR

Inventor: John Arndt Strand, III _____
(Printed Name) (Signature)

Citizenship: USA Citizen Date: _____

Post Office Address:

Residence: 1530 S. 22nd Street, Leavenworth, Kansas 66048

1st Witness: _____
(Type or Print) (Signature)

2nd Witness: _____
(Type or Print) (Signature)

SOLE or JOINT INVENTOR

Inventor: William Lee Edwards _____
(Printed Name) (Signature)

Citizenship: USA Citizen Date: _____

Post Office Address:

Residence: 1056 1/2 Gillette, Overland Park, Kansas 66215

1st Witness: _____ (Type or Print) _____ (Signature)

2nd Witness: _____ (Type or Print) _____ (Signature)

SOLE or JOINT INVENTOR

Inventor: Bryan Lee Gorman _____
(Printed Name) (Signature)

Citizenship: USA Citizen Date: _____

Post Office Address:

Residence: 6526 W. 49th Street, Mission, Kansas 66202

1st Witness: _____ (Type or Print) _____ (Signature)

2nd Witness: _____ (Type or Print) _____ (Signature)

SOLE or JOINT INVENTOR

Inventor: Murat Bog _____
(Printed Name) (Signature)

Citizenship: Citizen of Turkey Date: _____

Post Office Address:

Residence: 8646 Chestnut Circle, Apt. 1, Kansas City, Missouri 64131

1st Witness: _____ (Type or Print) _____ (Signature)

2nd Witness: _____ (Type or Print) _____ (Signature)

SOLE or JOINT INVENTOR

Inventor: Michael Thomas Swink _____
(Printed Name) (Signature)

Citizenship: USA Citizen Date: _____

Post Office Address:

Residence: 7704 Oakview Lane, Lenexa, Kansas 66216

1st Witness: _____
(Type or Print) (Signature)

2nd Witness: _____
(Type or Print) (Signature)

SOLE or JOINT INVENTOR

Inventor: Harold Wayne Johnson Harold Wayne Johnson
(Printed Name) (Signature)

Citizenship: USA Citizen Date: March 15, 2000

Post Office Address:

Residence: HCR 70 Box 7333, Roach, MO 65787

1st Witness: _____
(Type or Print) (Signature)

2nd Witness: _____
(Type or Print) (Signature)

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I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this Assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

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Sprint Law Department
8140 Ward Parkway
Mailstop: MOKCMP0506
Kansas City, Missouri 64114

PCDOCS #: 20415

**PATENT
REEL: 010736 FRAME: 0556**

JOINT INVENTOR

Inventor (1) Martin Joseph Kaplan
(Type or Print)

Martin J. Kaplan
(Signature in Full)

Citizenship: USA Citizen

Date: 4/4/97

Residence: 10902 Cedar Niles Circle, Olathe, Kansas 66061

1st Witness: Angel K. Romi
(Type or Print)

Angel K. Romi
(Signature)

2nd Witness: JAY B. BEATTY
(Type or Print)

Jay B. Beatty
(Signature)

JOINT INVENTOR

Inventor (2) Frank Anthony DeNap
(Type or Print)

Frank Anthony DeNap
(Signature in Full)

Citizenship: USA Citizen

Date: 4/4/97

Residence: 10324 Walmer, Overland Park, Kansas 66212

1st Witness: Angel K. Romi
(Type or Print)

Angel K. Romi
(Signature)

2nd Witness: JAY B. BEATTY
(Type or Print)

Jay B. Beatty
(Signature)

JOINT INVENTOR

Inventor (3) John Arndt Strand, III
(Type or Print)

John A. Strand III
(Signature in Full)

Citizenship: USA Citizen

Date: 4/4/97

Residence: 1530 S. 22nd Street, Leavenworth, Kansas 66048

1st Witness: Angel K. Romi
(Type or Print)

Angel K. Romi
(Signature)

2nd Witness: JAY B. BEATTY
(Type or Print)

Jay B. Beatty
(Signature)

JOINT INVENTOR

Inventor (4) William Lee Edwards
(Type or Print)

William Lee Edwards
(Signature in Full)

Citizenship USA Citizen

Date: 4/4/97

Residence: 10563 Gillette, Overland Park, Kansas 66215

1st Witness: Angel K. Romi
(Type or Print)

Angel K. Romi
(Signature)

2nd Witness: JAY B. BEATTY
(Type or Print)

Jay B. Beatty
(Signature)

JOINT INVENTOR

Inventor (5) Bryan Lee Gorman
(Type or Print)

Bryan Lee Gorman
(Signature in Full)

Citizenship USA Citizen

Date: April 4, 1997

Residence: 6526 W. 49th Street, Mission, Kansas 66202

1st Witness: Angel K. Romi
(Type or Print)

Angel K. Romi
(Signature)

2nd Witness: JAY B. BEATTY
(Type or Print)

Jay B. Beatty
(Signature)

JOINT INVENTOR

Inventor (6) Murat Bog
(Type or Print)

Murat Bog
(Signature in Full)

Citizenship Citizen of Turkey

Date: 4/4/97

Residence: 8646 Chestnut Circle, Apt. 1, Kansas City, Missouri 64131

1st Witness: Angel K. Romi
(Type or Print)

Angel K. Romi
(Signature)

2nd Witness: JAY B. BEATTY
(Type or Print)

Jay B. Beatty
(Signature)

JOINT INVENTOR

Inventor (7) Michael Thomas Swink
(Type or Print)

Michael T. Swink
(Signature in Full)

Citizenship USA Citizen

Date: 4-4-97

Residence: 7704 Oakview Lane, Lenexa, Kansas 66216

1st Witness: Angel K. Romi
(Type or Print)

Angel K. Romi
(Signature)

2nd Witness: JAY B. BEATTY
(Type or Print)

Jay B. Beatty
(Signature)

JOINT INVENTOR

Inventor (8) Harold Wayne Johnson
(Type or Print)

(Signature in Full)

Citizenship USA Citizen

Date: _____

Residence: 13343 West 103rd Terrace, Lenexa, Kansas 66215

1st Witness: _____
(Type or Print)

(Signature)

2nd Witness: _____
(Type or Print)

(Signature)

RECORDED: 04/04/2000

PATENT
REEL: 010735 FRAME: 0559