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

1. Name of conveying party(ies):

Hui, Rongqing
Allen, Christopher T.
Demarest, Kenneth R.

3-12-02

2. Name and address of receiving party(ies)

Name: University of Kansas

Internal Address: Office of General Counsel

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Street Address: Strong Hall

City: Lawrence State: KS Zip: 66045

Additional Name(s) & address(es) attached? Yes No

Execution Date: February 13, 2002; February 13, 2002;
February 21, 2002

OFFICE OF PUBLIC RECORDS
2002 MAR 12 PM 2:34
FINANCE SECTION

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution data of the application is:

A. Patent Application No.(s)
10/027,966

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Harley R. Ball

Internal Address: Sprint Communications Company, L. P.

Mailstop: MOKCMP0506

Street Address: 8140 Ward Parkway

City: Kansas City State: MO Zip: 64114

6. Total number of applications and patents involved: one

7. Total fee (37 CFR 3.41) \$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

21-0765

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

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

Eugene G. Kim
Name of Person Signing

Eugene Kim
Signature

3/4/02
Date

Total number of pages including cover sheet, attachments, and documents: 6

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

03/25/2002 TDIAZ1 00000123 210765 10027966

01 FC:581 40.00 CH

PATENT
REEL: 012704 FRAME: 0894

ASSIGNMENT

by

Dr. Rongqing Hui

to the

University of Kansas

to the intellectual property commonly referred to as a method of
**"Combating PMD-induced signal fading in SCM optical
systems using polarization diversity receiver"**

(Assignment ID No. ITAA020101)

WHEREAS, I, Dr. Rongqing Hui, Professor of Electrical Engineering and Computer Science Department at the University of Kansas, have invented certain new and useful technologies in the area of PMD compensation, specifically as detailed in Technical Disclosure "Combating PMD-induced signal fading in SCM optical systems using polarization diversity receiver" (#ITTD010801) dated August 8, 2001, and any and all related technology derivatives (the "Intellectual Property") for which the University of Kansas may file an application for Letters Patent, and a registration of any Trademark, Service mark, and Copyright under the laws of the United States; and

WHEREAS, the University of Kansas, a public educational institution duly organized under the laws of the State of Kansas and having its principal place of business at the Office of General Counsel, the University of Kansas, Strong Hall, Lawrence, Kansas 66045, is desirous of acquiring an interest in, to and under, said Intellectual Property, any and all applications, and any and all Letters Patent, Trademarks, Service marks, and Copyrights which may be granted or registered for or upon said Intellectual Property in the United States of America and all countries foreign thereto.

NOW, THEREFORE, to all whom it may concern be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, Dr. Rongqing Hui, as one of several inventors, have assigned and transferred, and by these presents do assign and transfer unto the University of Kansas the full and exclusive right, title and interest, throughout the world, into and under the following:

- (a) the Intellectual Property;
- (b) any and all patent applications filed in connection with the Intellectual Property;
- (c) any and all refilings, divisions, and continuations of all patent applications filed in connection with the Intellectual Property;
- (d) any and all Trademarks, Service marks, and Copyrights (including without limitation all rights of the owner of copyright specified in 17 U.S.C. §106) which may issue or be registered, or rights which may be assumed from the Intellectual Property anywhere in the world;
- (e) any and all Letters Patent of the United States of America which may issue from all patent applications, refilings, divisions and continuations filed in connection with the Intellectual Property;
- (f) any and all reissues of said Letters Patent of the United States of America;

- (g) any and all applications for Letters Patent upon the Intellectual Property which have heretofore been filed or may hereafter be filed in any and all countries foreign to the United States of America, together with all rights to file and to claim priority in connection with all foreign-filed patent applications filed in connection with the Intellectual Property;
- (h) any and all refilings, divisions and continuations of all foreign-filed patent applications filed in connection with the Intellectual Property,

ALL of the above shall be held and enjoyed by THE UNIVERSITY OF KANSAS for its own use and behalf, and for its successors, legal representatives and assigns, to the full end of the term for which Letters Patent, Trademarks, Service marks, and Copyrights may be granted, and we do hereby authorize and request the United States Patent and Trademark Office to issue Letters Patent, and to register Trademarks and Service marks, and request the United States Copyright Office to register Copyrights, in accordance with this Agreement.

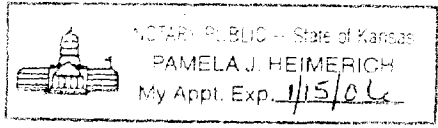
Date: 02/13/2002 Signed: *[Signature]*

STATE OF KANSAS)
)ss.
 COUNTY OF DOUGLAS)

On this 13th day of February, 2002, before me personally appeared to me, Rongqiang Hui, known to be the person described in and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

Pamela J. Heimerich

Notary Public
 My Commission expires:



SEAL

STATE OF KANSAS)
)ss.
 COUNTY OF DOUGLAS)

ASSIGNMENT
by
Dr. Chris Allen
to the
University of Kansas
to the intellectual property commonly referred to as a method of
**"Combating PMD-induced signal fading in SCM optical systems
using polarization diversity receiver"**

(Assignment ID No. ITAA020102)

WHEREAS, I, Dr. Chris Allen, Professor of Electrical Engineering and Computer Science Department at the University of Kansas, have invented certain new and useful technologies in the area of PMD compensation, specifically as detailed in Technical Disclosure "Combating PMD-induced signal fading in SCM optical systems using polarization diversity receiver" (#ITTD010801) dated August 8, 2001, and any and all related technology derivatives (the "Intellectual Property") for which the University of Kansas may file an application for Letters Patent, and a registration of any Trademark, Service mark, and Copyright under the laws of the United States; and

WHEREAS, the University of Kansas, a public educational institution duly organized under the laws of the State of Kansas and having its principal place of business at the Office of General Counsel, the University of Kansas, Strong Hall, Lawrence, Kansas 66045, is desirous of acquiring an interest in, to and under, said Intellectual Property, any and all applications, and any and all Letters Patent, Trademarks, Service marks, and Copyrights which may be granted or registered for or upon said Intellectual Property in the United States of America and all countries foreign thereto.

NOW, THEREFORE, to all whom it may concern be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, Dr. Chris Allen, as one of several inventors, have assigned and transferred, and by these presents do assign and transfer unto the University of Kansas the full and exclusive right, title and interest, throughout the world, into and under the following:

- (a) the Intellectual Property;
- (b) any and all patent applications filed in connection with the Intellectual Property;
- (c) any and all refilings, divisions, and continuations of all patent applications filed in connection with the Intellectual Property;
- (d) any and all Trademarks, Service marks, and Copyrights (including without limitation all rights of the owner of copyright specified in 17 U.S.C. §106) which may issue or be registered, or rights which may be assumed from the Intellectual Property anywhere in the world;
- (e) any and all Letters Patent of the United States of America which may issue from all patent applications, refilings, divisions and continuations filed in connection with the Intellectual Property;
- (f) any and all reissues of said Letters Patent of the United States of America;

- (g) any and all applications for Letters Patent upon the Intellectual Property which have heretofore been filed or may hereafter be filed in any and all countries foreign to the United States of America, together with all rights to file and to claim priority in connection with all foreign-filed patent applications filed in connection with the Intellectual Property;
- (h) any and all refilings, divisions and continuations of all foreign-filed patent applications filed in connection with the Intellectual Property,

ALL of the above shall be held and enjoyed by THE UNIVERSITY OF KANSAS for its own use and behalf, and for its successors, legal representatives and assigns, to the full end of the term for which Letters Patent, Trademarks, Service marks, and Copyrights may be granted, and we do hereby authorize and request the United States Patent and Trademark Office to issue Letters Patent, and to register Trademarks and Service marks, and request the United States Copyright Office to register Copyrights, in accordance with this Agreement.

Date: 12 Feb 2002 Signed: *Christopher Allen*

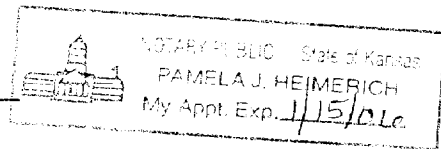
STATE OF KANSAS)
)ss.
COUNTY OF DOUGLAS)

On this 13th day of February, 2002, before me personally appeared to me, Christopher Allen, known to be the person described in and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

Pamela J. Heimerich

Notary Public
My Commission expires:

SEAL



STATE OF KANSAS)
)ss.
COUNTY OF DOUGLAS)

ASSIGNMENT
by
Dr. Ken Demarest
to the
University of Kansas
to the intellectual property commonly referred to as a method of
**"Combating PMD-induced signal fading in SCM optical systems
using polarization diversity receiver"**

(Assignment ID No. ITAA020103)

WHEREAS, I, Dr. Ken Demarest, Professor of Electrical Engineering and Computer Science Department at the University of Kansas, have invented certain new and useful technologies in the area of PMD compensation, specifically as detailed in Technical Disclosure "Combating PMD-induced signal fading in SCM optical systems using polarization diversity receiver" (#ITTD010801) dated August 8, 2001, and any and all related technology derivatives (the "Intellectual Property") for which the University of Kansas may file an application for Letters Patent, and a registration of any Trademark, Service mark, and Copyright under the laws of the United States; and

WHEREAS, the University of Kansas, a public educational institution duly organized under the laws of the State of Kansas and having its principal place of business at the Office of General Counsel, the University of Kansas, Strong Hall, Lawrence, Kansas 66045, is desirous of acquiring an interest in, to and under, said Intellectual Property, any and all applications, and any and all Letters Patent, Trademarks, Service marks, and Copyrights which may be granted or registered for or upon said Intellectual Property in the United States of America and all countries foreign thereto.

NOW, THEREFORE, to all whom it may concern be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, Dr. Ken Demarest, as one of several inventors, have assigned and transferred, and by these presents do assign and transfer unto the University of Kansas the full and exclusive right, title and interest, throughout the world, into and under the following:

- (a) the Intellectual Property;
- (b) any and all patent applications filed in connection with the Intellectual Property;
- (c) any and all refilings, divisions, and continuations of all patent applications filed in connection with the Intellectual Property;
- (d) any and all Trademarks, Service marks, and Copyrights (including without limitation all rights of the owner of copyright specified in 17 U.S.C. §106) which may issue or be registered, or rights which may be assumed from the Intellectual Property anywhere in the world;
- (e) any and all Letters Patent of the United States of America which may issue from all patent applications, refilings, divisions and continuations filed in connection with the Intellectual Property;
- (f) any and all reissues of said Letters Patent of the United States of America;

- (g) any and all applications for Letters Patent upon the Intellectual Property which have heretofore been filed or may hereafter be filed in any and all countries foreign to the United States of America, together with all rights to file and to claim priority in connection with all foreign-filed patent applications filed in connection with the Intellectual Property;
- (h) any and all refilings, divisions and continuations of all foreign-filed patent applications filed in connection with the Intellectual Property,

ALL of the above shall be held and enjoyed by THE UNIVERSITY OF KANSAS for its own use and behalf, and for its successors, legal representatives and assigns, to the full end of the term for which Letters Patent, Trademarks, Service marks, and Copyrights may be granted, and we do hereby authorize and request the United States Patent and Trademark Office to issue Letters Patent, and to register Trademarks and Service marks, and request the United States Copyright Office to register Copyrights, in accordance with this Agreement.

Date: Feb 21, 2002 Signed: [Signature]

STATE OF KANSAS)
)ss.
COUNTY OF DOUGLAS)

On this 21 day of FEBRUARY, 2002, before me personally appeared to me, _____, known to be the person described in and who executed the foregoing instrument, and who duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[Signature]

Notary Public
My Commission expires:

5/14/05

SEAL

STATE OF KANSAS)
)ss.
COUNTY OF DOUGLAS)

