## PATENT ASSIGNMENT

## Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
Wenxin ZHENG	12/01/2009
Toshiki KUBO	01/08/2010
Bryan MALINSKY	01/07/2010
Yoshiharu KANDA	12/04/2009
Doug DUKE	12/20/2009

#### RECEIVING PARTY DATA

Name:	AFL Telecommunications LLC
Street Address:	P.O. Box 3127
City:	Spartanburg
State/Country:	SOUTH CAROLINA
Postal Code:	29304

### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12673864

### **CORRESPONDENCE DATA**

Fax Number: (202)293-7860

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Correspondent Name: SUGHRUE MION, PLLC

Address Line 1: 2100 PENNSYLVANIA AVENUE, N.W.

Address Line 2: SUITE 800

Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20037-3213

ATTORNEY DOCKET NUMBER: A10192

NAME OF SUBMITTER: Carl J. Pellegrini

PATENT REEL: 023947 FRAME: 0877 40.00 1267386

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### Total Attachments: 5

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> PATENT REEL: 023947 FRAME: 0878

Whereas, We, Wenxin ZHENG of Moore, South Carolina, Toshiki KUBO of Greer, South Carolina, Bryan MALINSKY of Simpsonville, South Carolina, Yoshiharu KANDA of Greer, South Carolina, and Doug DUKE of Simpsonville, South Carolina, hereinafter called assignors, have invented certain improvements in AUTOMATIC ALIGNMENT FOR SPLICING OF NON-CIRCULAR FIBER and executed an application for Letters Patent of the United States of America therefor on; and
Whereas, AFL Telecommunications LLC, P.O. Box 3127, Spartansburg, South Carolina 29304, United States (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;
Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,
We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.
We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number 12673864 and Confirmation number 1946, filed February 17, 2010 ) the application number and filing date of said application when known.
Date: 12/1/2009 Then They
s/Wenxin ZHENG
Date:
s/Toshiki KUBO
Date:
s/Bryan MALINSKY Date:
s/Yoshiharu KANDA
Date:
s/Doug DUKE

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

REEL: 023947 FRAME: 0879

Whereas, We, Wenxin ZHENG of Moore, South Carolina, Toshiki KUBO of Greer, South Carolina, Bryan MALINSKY of Simpsonville, South Carolina, Yoshiharu KANDA of Greer, South Carolina, and Doug DUKE of Simpsonville, South Carolina, hereinafter called assignors, have invented certain improvements in AUTOMATIC ALIGNMENT FOR SPLICING OF NON-CIRCULAR FIBER and executed an application for Letters Patent of the United States of America therefor on; and
Whereas, AFL Telecommunications LLC, P.O. Box 3127, Spartansburg, South Carolina 29304, United States (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;
Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,
We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.  We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number 12673864 and Confirmation number 1946, filed February 17, 2010 the application number and filing date of said application when known.
Date:
s/Wenxin ZHENG
Date:
s/Toshiki KUBO
Date: Jan 08, 2009 708hiki Kubo
s/Bryan MALINSKY
Date:
s/Yoshiharu KANDA  Date:
s/Doug DUKE

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

PATENT REEL: 023947 FRAME: 0880

Whereas, We, Wenxin ZHENG of Moore, South Carolina, Toshiki KUBO of Greet, South Carolina, Bryan MALINSKY of Simpsonville, South Carolina, Yoshiharu KANDA of Greer, South Carolina, and Doug DUKE of Simpsonville, South Carolina, hereinafter called assignors, have invented certain improvements in AUTOMATIC ALIGNMENT FOR SPLICING OF NON-CIRCULAR FIBER and executed an application for Letters Patent of the United States of America therefor on; and
Whereas, AFL Telecommunications LLC, P.O. Box 3127, Spartansburg, South Carolina 29304, United States (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;
Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,
We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.  We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses
(Application number 12673864 and Confirmation number 1946, filed February 17, 2010 the application number and filing date of said application when
known.
Date:
s/Wenxin ZHENG
Date:
Date: 1/7/2010 Bryan Malinsky
Date:
s/Yoshiharu KANDA
Date:
s/Doug-DUKE

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

PATENT

REEL: 023947 FRAME: 0881

Whereas, We, Wenxin ZHENG of Moore, South Carolina, Toshiki KUBO of Greer, South Carolina, Bryan MALINSKY of Simpsonville, South Carolina, Yoshiharu KANDA of Greer, South Carolina, and Doug DUKE of Simpsonville, South Carolina, hereinafter called assignors, have invented certain improvements in AUTOMATIC ALIGNMENT FOR SPLICING OF NON-CIRCULAR FIBER and executed an application for Letters Patent of the United States of America therefor on; and
Whereas, AFL Telecommunications LLC, P.O. Box 3127, Spartansburg, South Carolina 29304, United States (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any-United States patents to be obtained therefor,
Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,
We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.
We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100  Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses  (Application number 12673864 and Confirmation number 1946, filed February 17, 2010) the application number and filing date of said application when known.
Date:
s/Wenxin ZHENG
Date:
s/Toshiki KUBO
Date:  s/Bryan MALINSKY
Date: 12/04/09 hothiharu handa s/Yoshiharu KANDA
Date:
s/Dong DUKE

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

PATENT

South Carolina, Bryan M Greer, South Carolina, a assignors, have invented	Venxin ZHENG of Moore, South MALINSKY of Simpsonville, So and Doug DUKE of Simpsonville certain improvements in AUTO IRCULAR FIBER and executed terica therefor on	outh Carolina, Yoshiharu KANI e, South Carolina, hereinafter c DMATIC ALIGNMENT FOR	DA of alled
Carolina 29304, United	Telecommunications LLC, P.O. I States (assignee), desires to acquivention, and to any United State	uire the entire right, title, and in	
Now therefore, f	for valuable consideration, receip	t whereof is hereby acknowled	ged,
assignee, its successors the invention disclosed to continuations thereof, and all reissues thereof, International Convention Patent and Trademark C in the application to the assignee may apply for further consideration all	amed assignors, hereby sell, assigned assigns, the entire right, title therein for the United States of And all Letters Patent of the United and all countries foreign thereton of Paris (1883) as amended, an Office to issue any Letters Patent assignee, its successors and assigneign Letters Patent on the investigation of the	and interest in the application america, including all divisions d States that may be granted the including rights of priority und d we request the Director of the granted upon the invention set gns; and we hereby agree that the ention and we will execute with a assignee in connection with the	and , and ereon, der the e U.S. forth he nout
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RECORDED: 02/17/201