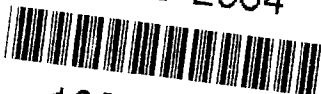


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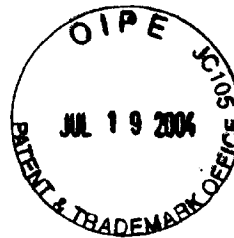


102796841

TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPIES THEREOF.

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

- (a) Marc R. Bernard
- (b) Andrew E. Khaleel
- (c) Luiz A. Izola
- (d) Nora Herndon
- (e) Kerry J. Neef



ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? YES NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME:

ADVANCED FIBRE COMMUNICATIONS, INC.
1465 N. McDowell Boulevard
Petaluma, California 94954

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? YES NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

- ASSIGNMENT OF
- ORIGINAL
- CHANGE OF NAME
- SECURITY
- MERGER
- WHOLE
- FAX/COPY
- VERIFIED TRANSLATION
- Other
- PATENT APPLICATION

EXEC. DATES: (a) 07-06-2004; (b) 07-06-2004;
(c) 07-06-2004; (d) 07-12-2004; (e) 07-06-2004

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? YES NO

A. PAT. APP. NO.(S)	Filing Date	1* INVENTOR if not in item 1	B. PATENT NO(S)	1* INVENTOR if not in item 1
10/783,716	February 19, 2004			

5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:

David A. Jakopin
Pillsbury Winthrop LLP
2475 Hanover Street
Palo Alto, CA 94304

6. NUMBER INVOLVED:

APPLNS 1 + PATS 0 = TOTAL 1

7. AMOUNT OF FEE = \$40

**CHARGE TO DEPOSIT ACCOUNT 50-2213
(ORDER NO. 009584-0308305)**

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 50-2213

UNDER ORDER NO	009584	0308305
dup. sheet not required	CLIENT NO.	MATTER NO.

ATTY DKT: AFC-013

9. STATEMENT AND SIGNATURE. To the best of my knowledge and belief, the foregoing information is true and correct.

10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)

--3--

By:

David A. Jakopin

David A. Jakopin, Reg. No. 32,995

Date: July 13, 2004

TEL: (650) 233-4500

FAX: (650) 233-4545

07/21/2004 REGISTRATION 00000434 502213 10783716
01 FC 8021 40.00 20

ASSIGNMENT
of U.S. Origin Patent Application

WHEREAS, the undersigned, **MARC R. BERNARD, ANDREW E. KHALEEL, LUIZ A. IZOLA, NORA HERNDON, and KERRY J. NEEF** have made an invention entitled *Optical Line Termination, Passive Optical Network, and Method and Apparatus for Performance Monitoring*, for which an application for Letters Patent of the United States was filed in the United States Patent and Trademark Office on February 19, 2004, under Serial No. 10/783,716 and



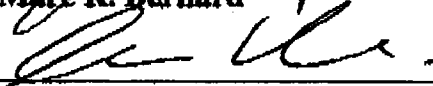


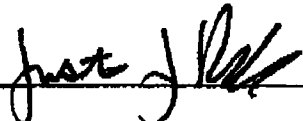
WHEREAS, **ADVANCED FIBRE COMMUNICATIONS, INC.** (hereinafter ASSIGNEE), a body having corporate powers under the laws of the State of Delaware, and having a place of business at 1465 N. McDowell Boulevard, Petaluma, California 94954, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, said ASSIGNORS do hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest to the said invention in the United States and all foreign countries, as described in the aforesaid application, and to the said application and to all continuations, divisions, reissues and substitutes of said application, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and ASSIGNORS hereby authorize and request the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives.

AND ASSIGNORS hereby agree to execute any papers requested by ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

ASSIGNORS furthermore agree upon request of said ASSIGNEE, and without further remuneration, to execute any and all papers desired by said ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in said ASSIGNEE.

Executed on the date below indicated.

<u>Signature</u>	<u>Date Signed</u>	<u>Witness</u>
 _____ Marc R. Bernard	<u>07/06/04</u>	 _____
 _____ Andrew E. Khaleel	<u>07/06/04</u>	 _____
 _____ Luiz A. Izola	<u>07/06/04</u>	 _____

(continued on next page)

Nora Herndon
Nora Herndon

7/02/04

[Signature]

Kerry J. Neef
Kerry J. Neef

07/06/04

[Signature]

* * * *