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(Rev. 6-93)

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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

Atty. Docket No. 05788.0066

To the Assistant Commissioner for Patents:

Please record the attached original documents or copy thereof.

ATTN. BOX ASSIGNMENTS

1. Name of conveying party(ies):

1. Stefano AINA
2. Fausto MELI
3. Stefano PICIACCIA

Additional names(s) of conveying party(ies)
attached? Yes XX No

2. Name and address of receiving party(ies):

Name: PIRELLI CAVI E SISTEMI S.p.A.

Internal Address: _____

Street Address: Viale Sarca, 222 - 20126
Milan, Italy

City: _____

State: _____ ZIP: _____

Additional name(s) & address(es) attached?
Yes XX No

3. Nature of conveyance:

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

Execution Date: Inventor 1 on Jan. 18, 1999
Inventors 2 and 3 on March 1, 1999

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

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

A. Patent Application Nos.

09/222,780

B. Patent No.(s)

Additional numbers attached? YES X NO5. Name and address of party to whom
correspondence concerning document
should be mailed:Name: Mr. Ernest F. Chapman

Internal Address: _____

Finnegan, Henderson, Farabow, Garrett
& Dunner, L.L.P.

Street Address: _____

1300 I Street, N.W.City: Washington, D.C.State: _____ ZIP: 200056. Total number of applications and patents
involved 17. Total fee (37 CFR 3.41): \$ 40.00☒ Enclosed☐ Authorized to be charged to
deposit account8. Deposit account number: 06-0916

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.Ernest F. Chapman

Name of Person Signing

Signature

April 13, 1999

Date

Total number of pages including cover sheet, attachments and document: 2PATENT
REEL: 9880 FRAME: 0596

A S S I G N M E N T

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

BIDIRECTIONAL OPTICAL TRANSMISSION SYSTEM FOR DENSE
INTERLEAVED WAVELENGTH DIVISION MULTIPLEXING

for which I/WE executed an application for United States Letters Patent concurrently herewith or on _____ or filed an application for United States Letters Patent on December 30, 1998, (Serial No. 09/220,780); and

WHEREAS, PIRELLI CAVI E SISTEMI S.p.A., a corporation of Italy, whose post office address is Viale Sarca, 222 - 20126 Milan, Italy (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. 09/222,780, filed December 30, 1998) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s).

| | | |
|---|---------------------------|-----------------|
| 1. Full Name of Sole or First Assignor : Stefano AINA | : Assignor's Signature | : Date |
| Address Viale Fulvio Testi, 86, 20100 Milano, Italy | : <i>Stefano Aina</i> | : 18.1.99 |
| | | : Citizen of |
| | | : Italy |
| 2. Full Name of Second Assignor : Fausto MELI | : Assignor's Signature | : Date |
| Address Stradone Farnese, 100, 29100 Piacenza, Italy | : <i>Fausto Meli</i> | : March 1, 1999 |
| | | : Citizen of |
| | | : Italy |
| 3. Full Name of Third Assignor : Stefano PICIACCIA | : Assignor's Signature | : Date |
| Address Via Inganni, 81, 21047 Milano, Italy | : <i>Stefano Picaccia</i> | : March 1, 1999 |
| | | : Citizen of |
| | | : Italy |

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P. · WASHINGTON, D.C.

PATENT

RECORDED: 04/13/1999

REEL: 9880 FRAME: 0597