

12-10-1999

FORM PTO 1594  
1-31-92

ET

U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 05788.0097To the Honorable Commissioner of Patents  
Please record the attached original documents or copy thereof.

101219298

MRID 12/3/99  
ATTN: BOX ASSIGNMENTS

1. Name of conveying parties:

1) Marco ANGELLIERI  
3) Giovanni SACCHI

2) Roberta CASTAGNETTI

2. Name and address of receiving party:

Name: Pirelli Cavi E Sistemi S.p.A.

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

Internal Address:

3. Nature of conveyance:

☒ Assignment ☐ Merger☐ Security Agreement ☐ Change of Name☐ OtherStreet Address: Viale Sarca, 222  
20126 Milano, Italy

City:

State:

Zip Code:

Execution Date: November 5, 1999

Additional name(s) &amp; Address(es) attached?

☐ Yes ☒ No

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: \_\_\_\_\_

A. Patent Application Number: 09/400,274

B. Patent Number: \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

5. 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.

6. Total number of applications and registrations involved: 1

7. Total fee (37 CFR 3.41): \$40  
☒Enclosed (Please charge deficiency to deposit account)  
☐

Authorized to be charged to deposit account

Street Address: 1300 I Street, N.W.

City: Washington

State: DC Zip: 20005-3315

8. 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

Signature

Date

DEC 03 1999

Total number of pages including cover sheet, attachments and documents: 4

PATENT  
REEL: 010423 FRAME: 0458

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12/08/1999 TTONLL

01 FC:501

JOINT INVENTION  
(U.S. Rights Only)

**ASSIGNMENT**

WHEREAS, We, the below named inventors, (hereinafter referred to as assignors, have made an invention entitled:

**PUMP DEVICE FOR PUMPING AN ACTIVE FIBER OF AN OPTICAL AMPLIFIER  
AND CORRESPONDING OPTICAL AMPLIFIER**

for which we executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on September 21, 1999 (Application No. 09/400,274); and

WHEREAS, PIRELLI CAVI E SISTEMI S.p.A., a corporation of Italy, whose post office address is Viale Sarca, 222-20126 Milano, 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, we, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, 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 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, WE HEREBY further covenant and agree that we will, without further consideration, communicate with assignee, its successors and assigns, any facts known to 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.

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

PATENT  
REEL: 010423 FRAME: 0459

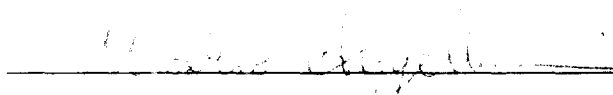
AND, WE HEREBY authorize and request the attorneys we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. 09/400,274, filed September 21, 1999) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, we have hereunto set our hands.

**First Assignor**

Marco ANGELLIERI  
Viale Duca Alessandro, 4  
43100 Parma, Italy

Citizenship: Italian

Signature: 

Date 5 November, 1999

**Second Assignor**

Roberta CASTAGNETTI  
Via Montebianco, 16  
20052 Monza (MI), Italy

Citizenship: Italian

Signature: 

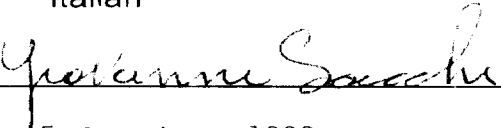
Date: 5 November, 1999

**Third Assignor**

Giovanni SACCHI  
Viale Sarca, 87  
20126 Milano, Italy

Citizenship: Italian

Signature:

A handwritten signature in cursive script, appearing to read "Giovanni Sacchi", written over a horizontal line.

Date:

5 November, 1999

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

RECORDED: 12/03/1999

PATENT  
REEL: 010423 FRAME: 0461