

01-03-2006



U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 05788.0340  
Attorney Customer Number: 22,852

To the Honorable Commissioner of Patents:  
Please record the attached original documents or copy thereon.

103150146

ATTN. BOX ASSIGNMENTS RECORDATION SERVICES

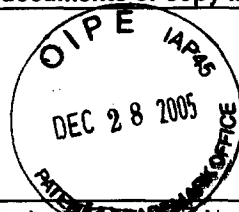
1. Name of conveying parties:

- 1) Attilio BRAGHERI
- 2) Giulia PIETRA
- 3) Raffaele CORSINI
- 4) Danilo CACCIOLI

2. Name and address of receiving parties:

Name:

PIRELLI &amp; C S.p.A.

Additional name of conveying party attached: ☒ Yes ☐ No

Internal Address:

3. Nature of conveyance:

Street Address: Via Gaetano Negri, 10,  
I-20123 Milano, Italy☒ Assignment ☐ Merger

City:

☐ Security Agreement ☐ Change of Name

State:

Zip Code:

☐ Other:

Additional name &amp; Address attached?

Execution Date:

March 7, 2005

☐ Yes☒ No

4. Application number or patent number: If this document is being filed together with a new application, the execution date of the application:

A. Patent Application Number:

10/522,555

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

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 accountInternal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT  
& DUNNER, L.L.P.

Street Address: 901 New York Avenue, N.W.

City: Washington, D.C.

State: Zip: 20001-4413

8. Deposit Account No.: 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  
Reg. No. 25,961

  
Signature

December 28, 2005

Date

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

12/30/2005 ECDOPER 00000137 10522555

**ASSIGNMENT**

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

**MULTI-STAGE RAMAN AMPLIFIER**

for which we executed an application for United States Letters Patent concurrently herewith or on \_\_\_\_\_ or filed an application for United States Letters Patent on January 27, 2005 (Application No. \_\_\_\_\_); and

WHEREAS, **PIRELLI & C S.p.A.**, a corporation of Italy, whose post office address is *Via Gaetano Negri, 10, I-20123 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.

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. 10/522,555 , filed January 27, 2005) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, we have hereunto set our hands.

**First Assignor**

**Attilio BRAGHERI**  
Via Nino Bixio, 21,  
I-17029 Vigevano, Italy

Citizenship: Italy

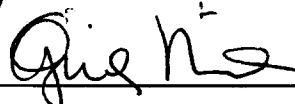
Signature: 

Date: March 7, 2005

**Second Assignor**

**Giulia PIETRA**  
Via dei Molini, 23,  
I-27100 Pavia, Italy

Citizenship: Italy


Signature: 

Date: March 7, 2005

**Third Assignor**

**Raffaele CORSINI**  
Via Pasquale Paoli, 2,  
I-20100 Milano, Italy

Citizenship: Italy

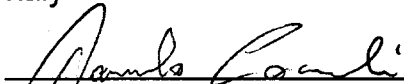
Signature: 

Date: March 7, 2005

**Fourth Assignor**

**Danilo CACCIOLI**  
Via G. D'Arco 200/B,  
20099 Sesto San Giovanni (MI), Italy

Citizenship: Italy

Signature: 

Date: March 7, 2005