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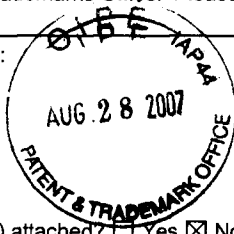
To the Director of the U.S. Patents and Trademarks Office: Please

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reof.

1. Name of conveying party(ies):

Pierpaolo BOFFI  
Lucia MARAZZI  
Mario MARTINELLI  
Livio PARADISO  
Paolo PAROLARI



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

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

Name: Pirelli & C. S.p.A.

Internal Address:

3. Nature of conveyance/Execution Date(s):

Execution Date(s) October 12, 2006

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other

Street Address: Via Gaetano Negri, 10, I-20123  
Milano, Italy I-20123

City:

Country:

Zip Code:

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

☐ Yes ☒ No

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

☐ This document is being filed together with a new application.

A. Patent Application Number(s):

10/592,032

B. Patent Number(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of 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: 901 New York Avenue, NW

City: Washington, D.C.

State: Zip: 20001-4413

6. Total number of applications and registrations involved: 1

7. Total fee (37 CFR 3.41): \$40

- ☐ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☒ Previously paid (Please charge deficiency to deposit account)  
☐ None required (government interest not affecting title)

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8. 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

Date

Total number of pages including cover sheet, attachments and documents: 6

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Attorney Docket No. 05788.0406-0000

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103428364

1. Name of conveying parties:  
Pierpaolo Boffi  
Lucia Marazzi  
Mario Martinelli  
Livio Paradiso  
Paola Parolari

U.S. PTO  
10/592032  
07/09/2007

2. Name and address of receiving party:

Name: Pirelli &amp; C. S.p.A.

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

Internal Address:

3. Nature of conveyance:

Street Address: Via Gaetano Negri, 10, I-20123

☒ Assignment☐ Merger

City: Milano

☐ Security Agreement☐ Change of Name

Country: Italy Zip Code: I-20123

☐ Joint Research Agreement☐ Government Interest Assignment☐ Executive Order 9494, Confirmatory License☐ Other:

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

☐ Yes☒ No

Execution Date: October 12, 2006

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(s):

B. Patent Number(s):

10/592,032, entitled "Method and Apparatus for Optical Phase Modulation," filed Sept. 8, 2006

Additional numbers attached?

☐ Yes☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

6. Total number of applications and patents involved: 1

Name: Stephen E. Kabakoff 404.653.6477

7. Total fee (37 CFR 1.21(h) and 3.41): \$40

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT &amp; DUNNER, L.L.P.

☐ Enclosed (Please charge deficiency or credit overpayment to deposit account 06-0916)

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

☒ Authorized to be charged to deposit account

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.

Signed:

Stephen E. Kabakoff, Reg. No. 51,276

7/9/2007

Date

07/11/2007 GFREY1 00000140 060916 10592032

02 FC:8021 40.00 DA Total number of pages including cover sheet, attachments and documents: 3

12/2005

PATENT  
REEL: 019786 FRAME: 0090

**ASSIGNMENT**

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

**METHOD AND APPARATUS FOR OPTICAL PHASE MODULATION**

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 September 8, 2006 (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. \_\_\_\_\_, filed September 8, 2006) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, we have hereunto set our hands.

**First Assignor**

**Pierpaolo BOFFI**

*c/o Corecom, Via G. Colombo, 81, I-20123 Milano, Italy*

Citizenship: Italy

Signature: Pierpaolo Boffi

Date: October 12, 2006

**Second Assignor**

**Lucia MARAZZI**

*c/o Corecom, Via G. Colombo, 81, I-20123 Milano, Italy*

Citizenship: Italy

Signature: Lucia Marazzi

Date: October 12, 2006

**Third Assignor**

**Mario MARTINELLI**

*c/o Corecom, Via G. Colombo, 81, I-20123 Milano, Italy*

Citizenship: Italy

Signature: Mario Martinelli

Date: October 12, 2006

**Fourth Assignor**

**Livio PARADISO**

*c/o Corecom, Via G. Colombo, 81, I-20123 Milano, Italy*

Citizenship: Italy

Signature: Livio Paradiso

Date: October 12, 2006

**Fifth Assignor**

**Paola PAROLARI**

*c/o Corecom, Via G. Colombo, 81, I-20123 Milano, Italy*

Citizenship: Italy

Signature: Paola Parolari

Date: October 12, 2006