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To the Honorable Commissioner of Patents

and the original documents or copy thereof.

1. Name of conveying party(ies): MLD 12-17-98

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

Didier Sogogne, Arnaud Rigny, and Sandrine Chelles

Name: France Telecom

Internal Address: _____

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

3. Nature of Conveyance:

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

Street Address: 6, Place d'Alleray

City: 75015 Paris State: FRANCE Zip: _____

Additional name(s) of receiving party(ies) attached? Yes No

Execution Date: November 30, 1998

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 No.(s): 09/167,745

B. Patent No.(s):

Patent Application No. 09/167,745

Fee: 40.00

Additional number(s) attached? Yes No

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

Name: Jeffrey J. Sopko

Street Address: 1200 Leader Building

City: Cleveland State: OH Zip: 44114-1401

6. Total number of applications and patents involved: 1

7. Total Fee (37 C.F.R. §3.41) \$40.00

- Enclosed
- Authorized to be charged to Deposit Account

8. Deposit Account No.

16-0820, Order No. 31048
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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.

Jeffrey J. Sopko
Name of Person Signing

Jeffrey J. Sopko
Signature

December 14, 1998
Date

Total number of pages including cover sheet, attachments, and document: 3

SP 14087 C/PV (C 02861)

Assignment Of Application

Page 1 of 2

WHEREAS, I (WE)

1/ SIGOGNE Didier : 106 avenue du Général Leclers, 91120 PALAISEAU, FRANCE

2/ RIGNY Arnaud : La Cucuère, 35580 GUIGNEN, FRANCE

3/ CHELLES Sandrine : 30 rue de Richelieu, 75001 PARIS, FRANCE

respectively, have invented certain new and useful improvements in : "NON-LINEAR OPTICAL DEVICE FOR PROCESSING AN OPTICAL SIGNAL, COMPRISING ANINTERFEROMETER WITH MULTIPLE ARMS"

for which an application for Letters Patent was executed on November 30, 1998
(Application No. 09/167,745 , filed October 07, 1998), and

WHEREAS, FRANCE TELECOM

(hereinafter referred to as "assignee") having a place of business at :
6, Place d'Alleray, 75015 PARIS, FRANCE

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries :

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledge, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters patent which may be granted thereof in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorise and request the Patent Office Officials in the United States and its territorial possessions and any all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right , title and interest in and to the same. for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issue to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of PEARNE, GORDON, McCOY & GRANGER of 1200 leader Building Cleveland, Ohio 44114 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States patent and trademark office for recordation of this document.

Date : November 30, 1998

SIGOGNE Didier

(Signature of Inventor)

Date : November 30, 1998

RIGNY Arnaud

(Signature of Inventor)

Date : November 30, 1998

CHELIES Sandrine

(Signature of Inventor)

Date : _____

(Signature of Inventor)

Date : _____

(Signature of Inventor)

Date : _____

(Signature of Inventor)

Date : _____

(Signature of Inventor)

Date : _____

(Signature of Inventor)

PEARNE, GORDON, McCOY & GRANGER
1200 Leader Building
Cleveland, Ohio 44114