

FOR 02-11-1999

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09/142405

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

1. Name of conveying party(ies): 02/24/98  
Hans KOOPS  
Additional name(s) of conveying parties attached?  Yes  No

2. Name and address of receiving party(ies)  
Name: Deutsche Telekom AG  
Internal Address: \_\_\_\_\_

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other: \_\_\_\_\_  
Execution dates: August 25, 1998

Street Address: Friedrich-Ebert-Allee 140  
53113 Bonn, Germany

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

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

A. Patent Applications

09/142,405

09142405

B. Patent No.(s)

Additional Numbers attached?  Yes  No

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

Name: Richard L. Mayer  
Internal Address: KENYON & KENYON

Street Address: One Broadway  
City: New York State: New York ZIP: 10004

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 number:  
11-0600

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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.*

Richard L. Mayer (Reg. No. 22,490)  
Name of Person Signing

Richard L. Mayer 12/24/98  
Signature Date

Total Number of pages including cover sheet, attachments and document: 4

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EL169613819US

PATENT  
REEL: 9749 FRAME: 0052

ASSIGNMENT

WHEREAS, I,

**Hans KOOPS**  
**Ernst-Ludwig-Str. 16**  
**D-64372 Ober-Ramstadt**  
**Germany**  
**Citizenship: German**

have made new and useful improvements in the invention entitled **OPTICAL MULTI-CHANNEL SEPARATING FILTER WITH ELECTRICALLY ADJUSTABLE PHOTON CRYSTALS**, the specification of which was filed as International Application Number PCT/DE97/01064 on the 3rd day of March, 1997, and

WHEREAS **Deutsche Telekom AG**, having a place of business at **Friedrich-Ebert-Allee 140, 53113 Bonn, Germany**, who, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited,

NOW, THEREFORE, for valuable consideration furnished by Assignee to me, receipt and sufficiency of which I hereby acknowledge, I hereby, without reservations:

1. Assign, transfer, and convey to Assignee the entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in any and all countries, including all divisional, renewal, substitute, continuation, and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent.

2. Authorize Assignee to file patent applications in any or all countries for any or all of said inventions and discoveries in my name or in the name of Assignee or otherwise as Assignee may deem advisable, under an International Convention or otherwise.

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**PATENT**  
**REEL: 9749 FRAME: 0053**

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title, and interest therein or otherwise as Assignee may direct.

4. Warrant that I have not conveyed to others any right, title, or interest in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; that I have good right to assign the same to Assignee without encumbrance; and that I am aware of no claim to the contrary.

5. Bind my heirs, legal representatives, and assigns, as well as myself to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me, my heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said inventions and discoveries or the history thereof; to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in my control or in the control of my heirs, legal representatives, or assigns which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries; and to testify to the same in any interference, arbitration, or litigation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this  
25<sup>th</sup> day of August, 1998.

Hans Koops  
Hans KOOPS

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