

10-25-1999



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US Department of Commerce  
Patent & Trademark Office

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

1. Name of conveying party(ies):

International Business  
Machines Corporation

*MPD 10 20-99*

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

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

Name: California Institute of Technology

Street Address: 1200 East California Blvd.  
City: Pasadena State: CA ZIP: 91125

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

3. Nature of conveyance:

Assignment of Undivided 50% Interest

Execution Date: 10/8/99

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)

\* B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: IBM Corporation  
Internal  
Address: Intellectual Property Law  
Street  
Address: 650 Harry Road (C4TA/J2B)  
San Jose, CA 95120-6099

\* 6. Total Number of applications and patents involved: One

\* 7. Total fee (37 CFR 3.41).....\$ 40.00  
\*  Enclosed  
\*  Authorized to be charged to  
\* deposit account

\* 8. Deposit Account Number: 09-0441  
\*

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.

*Thomas R. Berthold*  
Thomas R. Berthold

10/15/99  
Date

10/25/1999 NTHA11 00000030 090441 08857740

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# ASSIGNMENT

Whereas, I,

(1) **GEOFFREY WILLIAM BURR**

City of **Cupertino**  
Country of **Santa Clara**  
State of **California**

(have invented certain improvements in (Title of Invention):

## METHOD FOR HOLOGRAPHIC STORAGE

and executed a United States patent application therefor, the said United States patent application having been assigned serial number **08/857,740** and having been granted a filing date of **May 16, 1997**; and

Whereas, the said Inventors have assigned the entire right, title and interest in the said United States patent application and invention, and to any United States and foreign patents to be obtained therefor, to INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504 (hereinafter called IBM), by means of an Assignment, the said Assignment having been duly recorded by the United States Patent and trademark Office pursuant to 37 C.F.R. § 3.11, on reel **8581** and frame **0411**; and

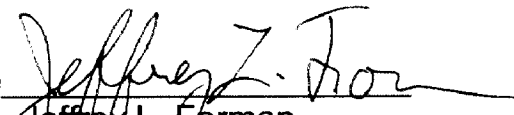
Whereas, IBM and CALIFORNIA INSTITUTE OF TECHNOLOGY, duly organized under and pursuant to the laws of California, and having its principal place of business at 1200 East California Boulevard, Pasadena, California 91125, (hereinafter called CAL TECH), desire jointly to hold the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the below named officer of IBM, having signatory authority on behalf of IBM, hereby sell, assign, and transfer to CAL TECH, its successors and assigns, an undivided fifty percent (50%) interest in the United States patent application and the invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application.

Signed at

Arlington, Virginia  
on 8 October, 1999.

Signature

  
Jeffrey L. Forman  
Manager, Intellectual Property Law  
Information Services

LETTER OF AUTHORITY

I, Marshall C. Phelps, Vice President, Intellectual Property and Licensing of International Business Machines Corporation (IBM), a New York corporation, do hereby delegate the authority to approve and execute documents on behalf of IBM relating to proceedings in the Patent, Trademark Registration or Copyright Offices servicing any country or region of the world, or to related appeal proceedings, including, but not limited to: petitions; powers of Attorney; authorizations; verification; nominations of representatives; declarations; documents relating to maintenance and defense of the resulting industrial property rights; assignments of rights to apply for and acquire patents and trademark registrations, and evidence of such assignments; request for the registration of patents as available for licensing; reports of inventions and petitions for waiver of patent rights to any department or agency of the United States Government; and, assignments, licenses and other instruments confirmatory of Government rights in patents and inventions, to Jeffrey L. Forman, Manager, Information Services, Intellectual Property Law, Washington.

Date:

3/25/96

Marshall C. Phelps

Marshall C. Phelps, Jr.  
Vice President - Intellectual Property & Licensing  
International Business Machines Corporation