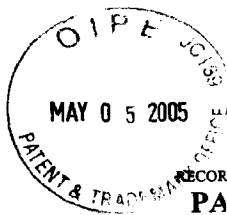


8.5.05

Atty Docket No.: 265264US6

FORM PTO-1595  
06-04

05-10-2005



102998393

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark OfficeTo the Director of the United States Patent and Trademark Office. Please send 102998393 1 document(s) or copy thereof.

## 1. Name of conveying party(ies):

Ernest CHUANG

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

Name: SONY CORPORATION

Address: 6-7-35 Kitashinagawa, Shinagawa-Ku, Tokyo,  
141-0001 JapanAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of Conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: April 1, 2005

Additional name(s) and 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 No.(s)

11/045,319

## B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

## Customer Number

22850

Tel. (703) 413-3000  
Fax. (703) 413-2220

## 6. Total applications and patents involved: 1

## 7. Total fee (37 CFR 3.41): \$40.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

## 8. Deposit account number: 15-0030

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 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.*

Bradley D. Lytle  
Name of Person Signing

Signature

MAY 0 5 2005  
Date

Registration Number: 40,073

Joseph Scafetta, Jr.  
Registration No 26,803

Total number of pages including this cover sheet: 2

Do not detach this portion

Mail documents to be recorded with required cover sheet information to:

Director of the United States Patent and Trademark Office  
Mail Stop Assignment Recordation Services  
Alexandria, Virginia. 22313

05/06/2005 EEKUBAY1 00000013 11045319

01 FC:8021

40.00 OF

PATENT  
REEL: 016530 FRAME: 0221

## ASSIGNMENT

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in HOLOGRAPHIC RECORDING MEDIUM, HOLOGRAPHIC READING SYSTEM, AND DATA READING METHOD FROM THE HOLOGRAPHIC RECORDING MEDIUM for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address;

AND WHEREAS, Sony Corporation, a Japanese corporation with offices at 6-7-35 Kitashinagawa, Shinagawa-Ku, Tokyo, 141-0001 Japan (hereinafter referenced as ASSIGNEE) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in this application to insert the serial number and filing date of this application in the spaces that follow: Serial Number: 11/045,319  
Filing Date: January 31, 2005

This assignment executed on the dates indicated below.

Ernest CHUANG

Name of first or sole inventor

Execution date of U.S. Patent Application

Tokyo, Japan

Residence of first or sole inventor

Ernest Chuang

APRIL 1, 2005

Signature of first or sole inventor

Date of this assignment