

12-05-2003

TO THE DIRECTOR OF THE US PATENT  
SIR: PLEASE RECORD THE ATTACHED

102616407

EOF.

## 1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):

1. Shinichiro ARAKAWA

3.

5.

7.

2.

4.

6.

8.

11-26-03

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO17510 U.S. PTO  
10/721181

## 2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: KABUSHIKI KAISHA TOSHIBA

ADDRESS: 1-1 Shibaura 1-chome, Minato-Ku, Tokyo, Japan

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

## 3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

- ☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST  
☒ ORIGINAL ☐ FACSIMILE/PHOTOCOPY  
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION  
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: November 11, 2003

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (**NOTE:** IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) November 11, 20034.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

A. PAT. APP. NO.(S) series code/serial no	M#	1* INVENTOR if not in item 1	B. PATENT NO.(S)	M#	1* INVENTOR if not in item 1
UNASSIGNED	0306889				

5. Name & Address of Party to Whom Correspondence  
Concerning Document Should be Mailed:

Pillsbury Winthrop LLP  
Intellectual Property Group  
P.O. Box 10500 McLean, VA 22102

6. NUMBER INVOLVED:

APPLNS 1 + PATS 0 = TOTAL = 1

7. AMOUNT OF FEE DUE: (Code 8021)  
ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

P 0306889

T4AOA-03S0443-1

8. PLEASE CHARGE TO OUR DEPOSIT ACCOUNT  
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UNDER ORDER NO

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9. 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.

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10. Total number of pages including this  
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3

Attorney: Glenn J. Perry

Reg. No. 28458

Date: November 26, 2003

Atty/Sec: gjp/nlh

TEL: (703) 905-2161

FAX: (703) 905-2500

FILE WITH PTO RETURN RECEIPT (PAT-103A)

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## A S S I G N M E N T

In consideration of value received, I, having a mailing address at  
c/o Intellectual Property Division, Toshiba Corporation, 1-1, Shibaura  
1-chome, Minato-ku, Tokyo 105-8001, Japan and a residence as stated below  
next to my name, the sole inventor (if only one name is listed below)  
or a joint inventor (if plural inventors are listed below) of an  
invention described in an application for United States patent entitled:

## DISK APPARATUS, DATA RECORDING METHOD, AND DATA REPRODUCTION METHOD

said application having been filed on  
and assigned Application No. \_\_\_\_\_;  
sell and assign to  
KABUSHIKI KAISHA TOSHIBA  
a corporation of Japan, having a business address at  
1-1 Shibaura 1-chome, Minato-Ku, Tokyo, Japan

its successors, assigns or nominees, hereinafter referred to as  
"Assignee", my entire right, title and interest in and to said invention  
as disclosed, shown and described in said application for United States  
patent: (check one)

☒ executed concurrently herewith;

☐ executed separately herefrom;

and in and to all applications for patent and patents for said invention,  
in all countries of the world, including all divisions, reissues, contin-  
uations, substitutions and extensions thereof and all rights arising  
under or pursuant to any and all international agreements, treaties or  
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and I authorize and request any official whose duty is to issue patents,  
to issue any patent on said invention or resulting therefrom to said  
Assignee, and I agree that on request and without further consideration,  
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divisional, continuing, reissue, or other applications, make all rightful  
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invention in all countries.

I hereby grant the following law firm the power to insert on this Assi-  
gnment any further identification which may be necessary or desirable in  
order to comply with the Rules of the U. S. Patent and Trademark Office  
for recordation of this document.

Pillsbury Winthrop LLP, 1600 Tysons Boulevard,  
McLean, Virginia 22102

# ASSIGNMENT

03S0443-1

Inventor: (Signature)

Date

Residence

Shinichiro Arakawa November 11, 2003 Kawasaki-shi, Japan  
Shinichiro Arakawa

RECORDING OFFICER:

After recording please return to:  
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RECORDED: 11/26/2003

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