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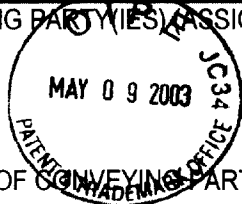
TO THE DIRECTOR OF THE US PATENT AND TRADEMARK OFFICE  
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

102449154

5-9-03

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

- 1. Shintaro TAKEHARA
- 2. Yutaka KASHIHARA
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.



ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED?  YES  NO

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: March 4, 2003

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) March 4, 2003

4.5 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 <sup>st</sup> INVENTOR if not in item 1	B. PATENT NO.(S)	M#	1 <sup>st</sup> INVENTOR if not in item 1
10/382,985	0302432				

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 581)  
ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

P 0302432	T4YKA-02S0660
MATTER NO.	CLIENT REF.

8. PLEASE CHARGE TO OUR DEPOSIT ACCOUNT NUMBER: 03-3975		
UNDER ORDER NO	008312	0302432
dup. sheet not required	CLIENT NO.	MATTER NO.

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.

Signature

Attorney: Glenn J. Perry

Reg. No. 28458

Date: May 9, 2003

Atty/Sec: gjp/nlh

TEL: (703) 905-2161

FAX: (703) 905-2500

10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)	3
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FILE WITH PTO RETURN RECEIPT (PAT-103A)

05/14/2003 6T0M11 00000145 033975 10382985

01 FC:8021 40.00 CH

# 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, KABUSHIKI KAISHA TOSHIBA, 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:

## INFORMATION REPRODUCING DEVICE AND INFORMATION REPRODUCING 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, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; 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, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.

I hereby grant the following law firm the power to insert on this Assignment 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

02S0660

Inventor: (Signature) Date Residence

Shintaro Takehara March 4, 2003 Yokohama-shi, Japan  
Shintaro Takehara

Yutaka Kashihara March 4, 2003 Chigasaki-shi, Japan  
Yutaka Kashihara

[Empty signature lines]

RECORDING OFFICER:  
After recording please return to:  
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McLean, Virginia 22102



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RECORDED: 05/09/2003

PATENT  
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