

Atty Docket No.: 285723US2S

FORM PTO-1595  
06-04



05-08-2006



103232832

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Yutaka KASHIHARA  
Atsushi ISHIHARA  
Yuji NAGAI  
Taku KATO  
Yutaka YAMANAKA  
Tatsunori IDE

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

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

Name: 1) KABUSHIKI KAISHA TOSHIBA  
2) NEC CORPORATION  
Address: 1) 1-1, Shibaura 1-chome, Minato-ku, Tokyo,  
1005-8001, Japan  
2) 7-1, Shiba 5-chome, Minato-ku, Tokyo  
108-8001, Japan

3. Nature of Conveyance:

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

Execution Date: January 20, 23, 20, 25, 18, 18, 2006

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4. Application number(s) or patent number(s):

☐ This document is being filed together with a new application

A. Patent Application No.(s)

11/344,217

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  
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*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.*

Eckhard H. Kuesters  
Name of Person Signing

Signature  
Joseph Scafetta, Jr.  
Registration No. 26,803

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Registration Number: 28,870

Total number of pages including this cover sheet: 7

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PATENT  
REEL: 017850 FRAME: 0403

In consideration of value received, I, having a residence as stated below above 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:

OPTICAL DISK, OPTICAL DISK DRIVE AND METHOD OF PLAYING BACK AN OPTICAL DISK

sell and assign to

1. KABUSHIKI KAISHA TOSHIBA, a Japanese corporation, having a business address at 1-1, Shibaura 1-chome, Minato-ku, Tokyo, 105-8001, Japan; and
2. NEC Corporation, a Japanese corporation, having a business address at 7-1, Shiba 5-chome, Minato-ku, Tokyo 108-8001, 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 United States patent application:

(check one) ☒ executed concurrently herewith  
☐ executed on \_\_\_\_\_ ;  
☐ Application No. 11/344,217 , filed February 1, 2006 ;

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes 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 proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, 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.

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.

Oblon, Spivak, McClelland, Maier & Neustadt, P.C., 1940 Duke Street, Alexandria, VA 22314

# ASSIGNMENT

HDG039749-USA-A  
(05S0793-1)

[1st Inventor]

Residence Address: Chigasaki-shi, Japan  
Mailing Address: c/o Interllectual Property Division, Toshiba Corporation, 1-1, Shibaura 1-chome,  
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*Yutaka Kashihara*

Yutaka Kashihara

*January 20, 2006*

Date:

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Citizenship: Japan

*Atsushi Ishihara*

Atsushi Ishihara

Date:

*January 23, 2006*

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*Yuji Nagai*

Yuji Nagai

Date:

*January 20, 2006*

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*Taku Kato*

Taku Kato

Date:

*January 25, 2006*

[5th Inventor]

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Mailing Address: c/o NEC Corporation, 7-1, Shiba 5-chome, Minato-ku, Tokyo 108-8001, Japan  
Citizenship: Japan

Yutaka Yamanaka

Date:

ASSIGNMENT

HDG039749-USA-A  
(05S0793-1)

[6th Inventor]

Residence Address: Tokyo, Japan

Mailing Address: c/o NEC Corporation, 7-1, Shiba 5-chome, Minato-ku, Tokyo 108-8001, Japan

Citizenship: Japan

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Tatsunori Ide

---

Date:

In consideration of value received, I, having a residence as stated below above 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:

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OPTICAL DISK

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2. NEC Corporation, a Japanese corporation, having a business address at 7-1, Shiba 5-chome, Minato-ku, Tokyo 108-8001, 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 United States patent application:

(check one) ☒ executed concurrently herewith  
☐ executed on \_\_\_\_\_ ;  
☐ Application No. 11/344,217 , filed February 1, 2006 ;

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes 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 proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, 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.

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.

Oblon, Spivak, McClelland, Maier & Neustadt, P.C., 1940 Duke Street, Alexandria, VA 22314

## [1st Inventor]

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Yutaka Kashiara

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Date:

## [2nd Inventor]

Residence Address: Yokohama-shi, Japan

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Atsushi Ishihara

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Date:

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Yuji Nagai

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Date:

## [4th Inventor]

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Taku Kato

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*Yutaka Yamanaka*

Yutaka Yamanaka

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*January 18, 2006*

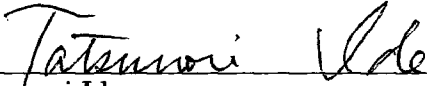
Date:

[6th Inventor]

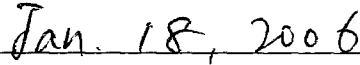
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