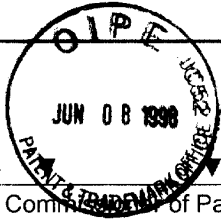


Docket No.: 48145 (904)

FORM PTO-1595 (Modified)
(Rev. 5-93)
OMB No. 0651-0011 (exp. 4/94)
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06-16-1998



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T U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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

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**Kazuhiko UEDA; and
Toshiyuki TANAKA**

MRD
6/8/98

Additional names(s) of conveying party(ies) ☐ Yes ☒ No

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

Name: **Sharp Kabushiki Kaisha**

Internal Address: _____

Street Address: **22-22 Nagaike-cho, Abeno-ku****Osaka 545-8522, JAPAN**

City: _____ State: _____ ZIP: _____

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
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Execution Date: **April 14, 1998**

4. Application number(s) or registration numbers(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)

09/031,931
filed
02/27/98

Additional numbers attached? ☐ Yes ☒ No

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

06/12/1998 DTHOMAS 00000021 09031931**04/18/98 Brian L. Michaelis, Esq. 40.00 BP**

Internal Address: _____

Dike, Bronstein, Roberts & Cushman, LLPStreet Address: **130 Water Street**City: **Boston** State: **MA** ZIP: **02109**

6. Total number of applications and patents involved:

17. Total fee (37 CFR 3.41):\$ **40.00**☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☐ Authorized to be charged to deposit account

8. Deposit account number:

04-1105

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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.

Brian L. Michaelis (Reg. No. 34,221)

Name of Person Signing

Signature

PATENT

Date

Total number of pages including cover sheet, attachments, and documents: **3** **0386**

ASSIGNMENT

We Kazuhiko UEDA
Toshiyuki TANAKA
 and
 for good and valuable consideration from SHARP KABUSHIKI KAISHA
 a Japanese corporation,
 having its principal place of business in Osaka, Japan
 hereinafter called the Assignee, receipt of which is hereby acknowledged, do hereby
 sell, assign and transfer unto the Assignee, its successors and assigns, the entire
 right, title and interest in, to and under an application for Letters Patent of the
 United States Serial No. 09/031,931, filed on Feb. 27, 1998 * signed by us
 for Improvements in OPTICAL DISK DEVICE

including all priority rights ensuing therefrom, and the inventions and any of them
 therein set forth and described, and any and all Letters Patent of the United States
 and of countries foreign thereto which may be granted thereon or therefor, together
 with the right to apply for such Letters Patent.

And for the above consideration we agree promptly upon request of the Assignee,
 its successors or assigns, to execute and deliver without further compensation any
 power of attorney, assignment, application, whether original, divisional, continuation
 or reissue, or other papers which may be necessary or desirable fully to secure to the
 Assignee, its successors and assigns, the inventions and any of them described in said
 application and all patent rights therein, in the United States and in any country
 foreign thereto.

The undersigned hereby grant(s) the law firm of Dike, Bronstein, Roberts &
 Cushman 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.

IN WITNESS WHEREOF, I, Kazuhiko UEDA, hereunto set my
 hand and seal this 14th day of April, 1998, I, Toshiyuki
TANAKA, hereunto set my hand and seal this 14th day of April
 1998, and I, _____, hereunto set my hand and seal
 this _____ day of _____, 19__.

Kazuhiko Ueda
Toshiyuki Tanaka

Commonwealth [State] of _____ ss.
 County of _____

Before me this _____ day of _____, 19__, personally appeared
 _____, who is to me personally known, and acknowledged
 the foregoing instrument of assignment to be [her] his free act and deed.

 Notary Public

Commonwealth [State] of _____ ss.
 County of _____

Before me this _____ day of _____, 19__, personally appeared
 _____, who is to me personally known, and acknowledged
 the foregoing instrument of assignment to be [her] his free act and deed.

 Notary Public

*Where the application is assigned before it is filed,
 and hence has no Serial No., this shall be left blank.