

03-25-2003



102398384

Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)

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

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

1. Name of conveying party(ies): Masahiro NAKAMURA 3.14.03 Additional name(s) of conveying party(ies) attached? [] Yes [x] No

2. Name and address of receiving party(ies) Name: SHARP KABUSHIKI KAISHA Internal Address: Street Address: 22-22, Nagaike-cho, Abeno-ku, City: Osaka Country: Japan Zip: Additional name(s) & address(es) attached: [] Yes [x] No

3. Nature of Conveyance: [x] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: February 26, 2003

4. Application number(s) or patent number(s): 10387839 If this document is being filed together with a new application, the execution date of the new application is: February 26, 2003 A. Patent Application No.(s): B. Patent No.(s): Additional numbers attached? [] Yes [x] No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Barry E. Bretschneider MORRISON & FOERSTER LLP Internal Address: Atty. Dkt.: 204552027400 Street Address: 1650 Tysons Blvd, Suite 300 City: McLean State: VA Zip: 22102

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$ 40.00 [] Enclosed [x] Authorized to be charged to deposit account [] Authorized to be charged to credit card (Form 2038 enclosed) 8. Deposit account number: 03-1952 (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. Barry E. Bretschneider - 28,055 Name of Person Signing Signature Date March 14, 2003 Total number of pages including cover sheet, attachments, and documents:

03/24/2003 EC00PER 00000239 031952 10387839

01 FC:8021 40.00 CH

I hereby certify that this correspondence is being hand delivered to: Commissioner for Patents, In Washington, DC on the date shown below.

Dated: March 14, 2003 Signature: Emily Palmer (Emily Palmer)

MORRISON & FOERSTER LLP

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assign(s), transfer(s) and set(s) over to:

SHARP KABUSHIKI KAISHA of
22-22, Nagaike-cho, Abeno-ku, Osaka, Japan

(hereinafter designated as the "ASSIGNEE"), its successors and assigns, the entire right, title, and interest for the United States in the invention, and all applications for patent and any Letters Patent which may be granted therefor, including said application, and all United States Letters Patent which may be granted thereof, and all divisions, reissues, continuations and extensions thereof, the said interest being the entire ownership of said Letters Patent when granted to be held by said ASSIGNEE, its successors, assigns or their legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been and enjoyed by Assignor(s) if this assignment had not been made, the application being known by the title:

Optical Pickup Apparatus and
Manufacturing Method Thereof

Attorney Docket No.:

for which the undersigned has/have executed an application for patent in the United States of America on the same day herewith. Where this instrument is not filed concurrently with the application, the following identifying information may be added after execution:

Serial No.:

Filing Date:

1. The undersigned hereby agree(s) to sign and execute any further documents and instruments which may be necessary, lawful and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reexamination or reissue application or in any amendments, extension of interference proceedings, or otherwise to secure the title thereto to the ASSIGNEE.

Page 1 of 2

PATENT
REEL: 013869 FRAME: 0036

2. The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property of similar agreements.

3. The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the ASSIGNEE.

4. The undersigned hereby authorize(s) and request(s) the Commissioner of Patents in the United States to issue any and all Letters Patent resulting from said application or any division or divisions or continuing applications thereof to the said ASSIGNEE.

5. The undersigned hereby grant(s) to the firm of Morrision & Foerster LLP 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 United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREBY, executed by the undersigned on the date(s) opposite the undersigned name(s).

February 26, 2003

Date

Masahiro NAKAMURA

Typed Name: Masahiro NAKAMURA

Date

Typed Name:

Date

Typed Name:

Date

Typed Name:

Date

Typed Name:

This assignment may be signed before a U.S. Notary Public or before at least two witnesses who also sign here:

February 26, 2003

Date

Sawako Hattori

Typed Name: Sawako HATTORI

February 26, 2003

Date

Naoko Itoh

Typed Name: Naoko ITOH

Page 2 of 2

dc-72058

RECORDED: 03/14/2003

PATENT
REEL: 013869 FRAME: 0037