

03-26-2004



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To the Director of the United States P

Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Hiroaki Tsukamoto
Kazuya Fujita
Takashi Yasudome
3-18-04

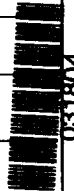
Additional names(s) of conveying party(ies) Yes No

2. Name and address of receiving party(ies):
Name: **Sharp Kabushiki Kaisha**
Address: **22-22, Nagaike-cho, Abeno-ku, Osaka-shi**

City: **Osaka** State/Prov.: _____
Country: **JAPAN** ZIP: **545-8522**

Additional name(s) & address(es) Yes No

22387 U.S. PTO
10/804666



3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: **March 3, 2004**

4. Application number(s) or patent numbers(s):
If this document is being filed together with a new application, the execution date of the application is: **March 3, 2004**

Patent Application No.	Filing date	B. Patent No.(s)
03/23/2004 EFLORES 00000010 10804666		
02 FC:8021	<u>40.00</u> DP	

Additional numbers Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: **George W. Hartnell, III**
Registration No. **42,639**
Address: **EDWARDS & ANGELL, LLP**
P.O. Box 55874

City: **Boston** State/Prov.: **MA**
Country: **USA** ZIP: **02205**

6. Total number of applications and patents involved: **1**

7. 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.

George W. Hartnell, III *[Signature]* **March 18, 2004**
Name of Person Signing Signature Date

3

Total number of pages including cover sheet, attachments, and

A S S I G N M E N T

I/We, Hiroaki TSUKAMOTO, Kazuya FUJITA and Takashi YASUDOME (inventor), for good and valuable consideration from SHARP KABUSHIKI KAISHA (assignee), having its principal place of business at 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan(address) 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. _____ filed on _____ for improvements in the **MODULE FOR OPTICAL DEVICE, AND MANUFACTURING METHOD THEREFOR** (title) 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 I/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 agree(s) to furnish all pertinent facts and documents relating to said application, said invention and said patent(s) as may be known and accessible to the undersigned, and will testify as to the same in any interference or litigation related thereto, and will promptly execute and deliver to Assignee any and all papers, instruments or affidavits necessary or desirable to apply for, obtain, maintain or enforce said application or said patent(s) in connection with any interference which may be declared, and any litigation concerning this application or any continuation, division or reissue thereof or Patent(s) or reissue patent(s) issued thereon, and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference or litigation.

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

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he or she has the full right to

convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants Dike, Bronstein, Roberts & Cushman the Intellectual Property Group of Edwards & Angell, LLP of P.O. Box 9169, Boston, MA 02209, U.S.A. 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.

Date: March 3, 2004

Signature of Inventor: Hiroaki Tsukamoto
Name: Hiroaki TSUKAMOTO

Date: March 3, 2004

Signature of Inventor: Kazuya Fujita
Name: Kazuya FUJITA

Date: March 3, 2004

Signature of Inventor: Takashi Yasudome
Name: Takashi YASUDOME

Date: _____

Signature of Inventor: _____
Name: _____

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