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To the Director of the U.S. Patent and Trademark Office, at the address or the new address(es) below.

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1. Name of conveying party(ies): Yuji Yano (08/29/2009), Takahiro Nakahashi (08/29/2009), and Tetsuya Tamiya (08/29/2009) Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies) Name: <u>Sharp Kabushiki Kaisha</u> Internal Address: _____ Street Address: 22-22, Nagaike-cho Abeno-ku, Osaka-shi Osaka 545-8522 JAPAN City: _____ State: _____ Country: _____ Zip: _____ Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance/Execution Date(s): Execution Date(s): in parentheses after inventor name <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Security Agreement <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____	

4. Application or patent number(s): A. Patent Application No.(s) This application Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> This document is being filed together with a new application. B. Patent No.(s) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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5. Name and address to whom correspondence concerning document should be mailed: Name: <u>David G. Conlin</u> <u>EDWARDS ANGELL PALMER & DODGE</u> <u>LLP</u> Internal Address: <u>Atty. Dkt.: 84874(70840)</u> Street Address: <u>P.O. Box 55874</u> City: <u>Boston</u> State: <u>MA</u> Zip: <u>02205</u> Phone Number: <u>(617) 517-5515</u> Fax Number: <u>(888) 325-9129</u> Email Address: <u>DConlin@eapdlaw.com</u>	6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 1.21(h) & 3.41) \$ <u>40.00</u> <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title) 8. Payment Information Deposit Account Number <u>04-1105</u> Authorized User Name <u>David A. Tucker</u>
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9. Signature: <u>David A. Tucker</u> Signature <u>David A. Tucker - 27,840</u> Name of Person Signing	09/30/2009 DAYONE 00000022 041105 September 23, 2009 01 FC:8021 40.00 DA Total number of pages including cover sheet, attachments, and documents: <u>5</u>
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ASSIGNMENT BY INVENTOR

THIS ASSIGNMENT, made this 29th day of August, 2009,

by YANO Yuji , NAKAHASHI Takahiro and TAMIYA Tetsuya (hereinafter referred to as Assignor); all residing at c/o Sharp Kabushiki Kaisha, 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan;

WHEREAS, Assignor has invented certain new and useful improvements in OPTICAL ELEMENT, OPTICAL ELEMENT WAFER, OPTICAL ELEMENT WAFER MODULE, OPTICAL ELEMENT MODULE, METHOD FOR MANUFACTURING OPTICAL ELEMENT MODULE, ELECTRONIC ELEMENT WAFER MODULE, METHOD FOR MANUFACTURING ELECTRONIC ELEMENT MODULE, ELECTRONIC ELEMENT MODULE AND ELECTRONIC INFORMATION DEVICE

, set forth in a Patent application for Letters Patent of the United States,

attached herewith, claiming foreign priority to Japanese Patent Application No. 2008-

246969, filed with the Japanese Patent Office on September 25, 2008 ; and

Japanese Patent Application No. 2009-199023, filed with the Japanese Patent Office

WHEREAS, Sharp Kabushiki Kaisha, a corporation organized under and *on August 28, 2009; and*

pursuant to the laws of Japan having its principal place of business at 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka, 545-8522, Japan (hereinafter referred to as

Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property,

the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this sale and assignment not been made.

AND for the same consideration, Assignor hereby represents and warrants to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignor is the sole and lawful owner of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignor hereby covenants and agrees to and with Assignee, its successors, legal representatives and assigns, that Assignor will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignor hereby requests the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignor hereby grants the following individuals 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:

EDWARDS ANGELL PALMER & DODGE LLP

All practitioners at Customer Number 21874

AND Assignor acknowledges an obligation of assignment of this invention to Assignee at the time the invention was made.

Aug. 29. 2009

Date

Yano Yuji

YANO Yuji

Aug. 29. 2009

Date

Nakahashi Takahiro

NAKHASHI Takahiro

Aug. 29. 2009

Date

Tamiya Tetsuya

TAMIYA Tetsuya