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Department of Commerce
and Trademark Office

PATENT

Our Ref.: 790-1246

Commissioner of Patents and Trademarks
Box Assignment, Washington, D.C. 20231

5.14.02

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

<p>1. Name of conveying party(ies): HIDESHI KOIZUMI</p> <p>Additional name/s of conveying party/ies attached? <input type="checkbox"/></p> <p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Assignment <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: _____ March 20, 2002</p>		<p>2. Name and address of receiving party(ies):</p> <p>Name: SHARP KABUSHIKI KAISHA Internal Address: Street Address: 22-22, Nagaike-cho, Abeno-ku</p> <p>City: Osaka State/Country: Japan Zip:</p> <p>Additional name/s & address/es attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>										
<p>4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____</p> <table border="0"><tr><td>A. Patent Application No(s). (1) 29/156,639 (2) _____ (3) _____</td><td>B. Patent No(s). (1) (2) (3)</td></tr></table> <p>Additional numbers attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>				A. Patent Application No(s). (1) 29/156,639 (2) _____ (3) _____	B. Patent No(s). (1) (2) (3)							
A. Patent Application No(s). (1) 29/156,639 (2) _____ (3) _____	B. Patent No(s). (1) (2) (3)											
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: _____ Richard G. Besha</p> <p>Internal Address: _____</p> <p>Street Address: Nixon & Vanderhye P.C. 1100 North Glebe Road 8th Floor</p> <p>City: Arlington State: VA Zip: 22201</p>		<p>6. Total number of applications & patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account #14-1140</p> <p>8. The Commissioner is hereby authorized to charge any deficiency, or credit any overpayment, in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.</p>										
DO NOT USE THIS SPACE												
<p>9. Statements 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.</p> <table border="0"><tr><td>Richard G. Besha</td><td></td><td>May 14, 2002</td></tr><tr><td>Name of Person Signing</td><td>Signature</td><td>Date</td></tr><tr><td>Reg. No. 22,770</td><td></td><td></td></tr></table> <p>Total number of pages including original cover sheet, attachments, and document: [3]</p>				Richard G. Besha		May 14, 2002	Name of Person Signing	Signature	Date	Reg. No. 22,770		
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Reg. No. 22,770												

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ASSIGNMENT FOR PATENT APPLICATION
(U.S. Rights Only)

WHEREAS, HIDESHI KOIZUMI, (hereinafter ASSIGNOR) of 380-1, Nenarigaki, Yamatotakada-shi, Nara-ken, Japan, has made an invention entitled SEMICONDUCTOR DEVICE for which a so-entitled application for Letters Patent, was filed in the United States Patent and Trademark Office on March 6, 2002;

WHEREAS, SHARP KABUSHIKI KAISHA (hereinafter ASSIGNEE), a corporation of the Country of Japan, having an office and place of business at 22-22, Nagaike-cho, Abeno-ku, Osaka, Japan is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America as defined in 35 U.S.C. § 100, in and to the invention as described in the aforesaid application and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademark to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that

ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;

ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention; and

ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

AGREED and executed as noted below:

<u>March 20, 2002</u>	<u>Hideshi Koizumi</u>
Date	HIDESHI KOIZUMI

Witnessed by:

Name: <u>April 1, 2002</u>	Date: <u>H. Takahashi</u>
Name: <u>April 1, 2002</u>	Date: <u>[Signature]</u>