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Commissioner for Patents: Please record the attached original document(s) or copy(ies).	
1. Name of conveying party(ies): (1) Munehiro Azami; (2) Shou Nagao; and (3) Yoshifumi Tanada Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Semiconductor Energy Laboratory Co., Ltd. 398 Hase Atsugi-shi Kanagawa-ken 243-0036 JAPAN Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Dates: (1) April 5, 2002; (2) April 15, 2002; and (3) April 15, 2002	
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution dates of the application are: (1) April 5, 2002; (2) April 15, 2002; and (3) April 15, 2002 A. Patent Application No(s): 10,127600 B. Patent No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name/address of party to whom correspondence concerning document should be mailed: JOHN F. HAYDEN Fish & Richardson P.C. 601 Thirteenth Street, NW Washington, DC 20005	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
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9. Statement and Signature: <i>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.</i> John F. Hayden Reg. No. 37,640 Name of Person Signing Signature: Date: April 23, 2002	
Total number of pages including coversheet, attachments and document: 2	

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ASSIGNMENT

For valuable consideration, We, Munehiro AZAMI of Atsugi, Kanagawa, Japan, Shou NAGAO of Atsugi, Kanagawa, Japan and Yoshifumi TANADA of Atsugi, Kanagawa, Japan hereby assign to Semiconductor Energy Laboratory Co., Ltd., a Japanese corporation having a place of business at:

398, Hase, Atsugi-shi, Kanagawa-ken 243-0036 Japan

and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us this day, entitled

PULSE OUTPUT CIRCUIT, SHIFT REGISTER AND DISPLAY DEVICE

filed on _____, and assigned U.S. Serial Number _____, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Signature: Munehiro Azami

Name: Munehiro AZAMI

Date: 04/05/2002

Signature: Shou Nagao

Name: Shou NAGAO

Date: 04/15/2002

Signature: Yoshifumi Tanada

Name: Yoshifumi TANADA

Date: 04/15/2002