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Substitute Form PTO-1595
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Commissioner for Patents: Please record the attached original document(s) or copy(ies).	
1. Name of conveying party(ies): (1) Yutaka Shionoiri; (2) Kiyoshi Kato; and (3) Munehiro Azami 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) November 21, 2002; (2) November 21, 2002; and (3) November 20, 2002	
4. Application number(s) or patent number(s): 10/305017 If this document is being filed with a new application, the execution dates of the application are: (1) November 21, 2002; (2) November 21, 2002; and (3) November 20, 2002 A. Patent Application No(s): 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. 1425 K Street, N.W. 11th Floor Washington, DC 20005-3500	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.
DO NOT USE THIS SPACE	
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 November 27, 2002	
Total number of pages including coversheet, attachments and document: 2	

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ASSIGNMENT

For valuable consideration, We, Yutaka SHIONOIRI of Kanagawa, Japan, Kiyoshi KATO of Kanagawa, Japan and Munehiro AZAMI of 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 SENSE AMPLIFIER AND ELECTRONIC APPARATUS USING THE SAME filed _____, 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: Yutaka Shionoiri

Name: Yutaka SHIONOIRI

Date: 11/21/2002

Signature: Kiyoshi Kato

Name: Kiyoshi KATO

Date: 11/21/2002

Signature: Munehiro Azami

Name: Munehiro AZAMI

Date: 11/20/2002