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PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Takuro Ohmaru	05/01/2012
Hidetomo Kobayashi	05/04/2012

RECEIVING PARTY DATA

Name:	Semiconductor Energy Laboratory Co., Ltd.
Street Address:	398, Hase
City:	Atsugi-shi, Kanagawa-ken
State/Country:	JAPAN
Postal Code:	243-0036

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13473706

CORRESPONDENCE DATA

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Correspondent Name: John F. Hayden

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ATTORNEY DOCKET NUMBER: 12732-1070001

NAME OF SUBMITTER: April K. Saunders-Fuller

Total Attachments: 1

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PATENT

REEL: 028281 FRAME: 0372

Attorney Docket No. 12732-1070001 Client Reference No. US15288

ASSIGNMENT

For valuable consideration, We, <u>Takuro OHMARU of Zama</u>, <u>Kanagawa</u>, <u>Japan and Hidetomo KOBAYASHI of Isehara</u>, <u>Kanagawa</u>, <u>Japan</u> hereby assign to <u>Semiconductor Energy Laboratory Co.</u>, <u>Ltd.</u>, a <u>Japanese</u> 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 SIGNAL PROCESSING CIRCUIT,
filed May 17, 2012, and assigned U.S. Serial Number 13/473,706, 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	Jakura Ohmary	
Name:	Takuro OHMARU	
Date:	05/01/2012	
Signature	Hidetomo KOBATASHI	
Name:	Hidetomo KOBAYASHI	
Date:	05/04/2012	

RECORDED: 05/29/2012

PATENT REEL: 028281 FRAME: 0373