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P.O. Box 1450 Alexandria, VA 22313-1450		Att	torney Docket No. <u>134690</u>				
Please record the attached document. Total number of pages including cover sheet, attachments, and document: 2							
A. Name of conveying party(res) Tomoki SHIODA B. Additional name(s) of convey		SANY 5-5, KI MORIO SANY 1-1, SA	d address of receiving party(les): O ELECTRIC CO., LTD EIHAN-HONDORI 2-CHOME GUCHI-SHI, OSAKA, JAPAN O SEMICONDUCTOR CO., LTD. AKATA 1-CHOME, OIZUMI-MACHI GUN, GUNMA, JAPAN				
3. A. Nature of conveyance:		B, Addition	nal name(s) & address(es) attached?				
Assignment Security Agreement Other B. Execution Date: Novembe	☐ Merger ☐ Change of Name r 21, 2007						
4. A. Patent Application No.(s) 1	1/984,598	B. Patent N	No.(s)				
	Additional numbers attac	hed? 🔲 Yes 🛭 N	io				
C. Title of Application: <u>SOI</u>	UND SIGNAL EQUALIZ	ER <u>AN</u> D SIGNAL	_ <u>EQUALIZER</u>				
Name and address of party to who concerning document should be not	om correspondence	6. Total number	r of applications and patents involved: 1				
Name: <u>James A. Oliff</u>	_	7. Please cl total fee	harge Deposit Account No. 15-0461 the (37 CFR 3.41) in the amount of \$40.00.				
Address: OLIFF & BERRIDGI P.O. Box 3208 Alexandria, VA Phone Number: 703 Fax Number: 703-8	50 22320-4850 -836-6400	Credit any overpayment or charge any underpayment to deposit account number 15-0461.					
original document.			et and any attached copy is a true copy of the				
James A. Oliff Registration No. 27,075 James E. Golladay, II Registration No. 58,182							

PATENT REEL: 020337 FRAME: 0691

ASSIGNMENT (Two Assignees)

		(1) <u>T</u>	omoki SHIODA	(4)		
(1-8) Insert Name(s)	Innert	(2)				
				<u>- </u>		
(9A)	Insert Name of First	to each o	in consideration of the sum of the undersigned, each undersign	one dollar (\$1.00) and other good an ed agrees to assign, and hereby does	id valuable consideration paid assign, transfer and set over to	
(10A)	Assignee Insert Address of First		SANYO ELECTRIC CO., LTD.	No. 1 1 1 1 1 October Towns		
(9B)	Assignee Insert Name of Second	(10A)		Moriguchi-shi, Osaka, Japan	<u> </u>	
	Assignee Insert Address of Second	(9B) –	SANYO SEMICONDUCTOR O		<u> </u>	
(10B)	Assignee	(10B) _	1-1, Sakata 1-chome, Oizumi-m	achi, Ora-gun, Gunma, Japan		
		(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, confirmation, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as				
(11)	Insert Identification.	(11)	SOUND SIGNAL EQUALIZ	ER AND SIGNAL EQUALIZER		
	such as Title, Case Number or Foreign Application Number	Attorne	y Docket No13469	0	· · · · · · · · · · · · · · · · · · ·	
	•		th the undersigned has (have) exe te herewith or	outed an application for patent in the	United States of America on	
(12)	Insert Date of Signing of	(12) o n				
	Application		·			
(13)	Alternative	(13) Number	U.S. Application Serial	11/984,598	<u></u>	
	Identification for filed applications	filed _	November 20, 20	07		
applicate possible provision a grante Patents entire in agreements.	ions for the invention, and any pass the Assignces may deem nece 2) Each undersigned agrees to our continuation or division to in obtaining evidence and going 3) Each undersigned agrees ones of the International Conventi 4) Each undersigned agrees of a valid United States patent to 5) Each undersigned authority of the United States resulting from the United States and the United States and the United States are successful to the United States and the United States are successful to the United States and the United States are successful to the United States and the United States are successful to the United States and the United States are successful to the United States ar	outent(s) issuessay, to execute al hercof, or an g forward w to execute al on for Prote to perform a o the Assignatives and requi on said applies a full right to the creats that the creats the fire	ing thereon, and also to execute a lipapers necessary in connection by patent or reissue application by its such interference. It papers and documents and perfection of Industrial Property or similar affirmative acts which may be eastern the Commissioner of the Unication or any divisional, continute of convey the entire interest herein is assignment is binding on his iron of Olife & Berridge, PLC	orm any act which may be necessary	th such applications and leclared concerning this c Assignees in every way in connection with claims or irm by reissue or reexamination o issue any and all Letters I Assignees, as Assignces of the ed, and will not execute, any is and legal representatives, it any further identification that	
	In witness whereof, execute	d by the und	lersigned on the date(s) opposi		1	
Date	November 21,	2007		Tomoki Shio.		
Date				<u>-</u>		
Date						
Date						
Date			Inventor Signature	<u> </u>	(SEAL)	
then it	This assignment should prefe should be signed before at least	rably be sign two witness	ned before: (a) a Notary Public if es who also sign here:	within the U.S.A. (b) a U.S. Consul i	foutside the U.S.A. If neither,	
Date			Witness			
Date	<u> </u>		Witness	D	ATENT	

RECORDED: 01/08/2008 REEL: 020337 FRAME: 0692