101007703

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

1	. Name of conveying party(ies): Masayuki SAKAKURA, Yasuyuki ARAI and Shunpei YAMAZAKI
A	Additional name(s) of conveying party(ies) attached? _ Yes X No
2	Name and address of receiving party(ies):
S	Name: Semiconductor Energy Laboratory Co., Ltd. Street Address: 398, Hase, Atsugi-shi
C A	City Kanagawa-ken State Japan ZIP 243-0036 Additional name(s) & addresses(es) attached? Yes X No
) 3	X Assignment _ Merger Security Agreement _ Change of Name
) }	Other Execution Date: March 12, 1999, February 15, 1999 and February 17, 1999 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: Title: PHOTOELECTRIC CONVERSION DEVICE AND PROCESS FOR PRODUCING PHOTO ELECTRIC CONVERSION DEVICE
	A: Patent Application No. 09/219,722 B. Patent No.(s)
	Additional numbers attached? _ Yes X No
5	. Name and address of party to whom correspondence concerning document should be mailed:
	Name: Sixbey, Friedman, Leedom & Ferguson, P.C. Street Address: 8180 Greensboro Drive, Suite 800 City: McLean State: Virginia ZIP 22102
6.	. Total number of applications and patents involved: _1_
7.	. Total fee (37 CFR 3.41):\$40.00
	 X Enclosed Authorized to be charged to deposit account X Authorized to charge any deficiency in the payment of the required fee(s) or credit any overpayment to Deposit Account No. 19-2380.
8.	Deposit Account Number: 19-2380 (Attach duplicate copy of this page if paying by deposit account)
	/1999 JSW00077 00000268 09219722 DO NOT USE THIS SPACE
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9.	. Statement and signature.
de	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 ocument.
	ric J. Robinson Signature 3-25-59 Date
	fame of Person Signing Signature Date solution to the solution of pages comprising cover sheet, attachments and document: 3

PATENT REEL: 9872 FRAME: 0375

Docket No. 0756-1912

SIXBEY, FRIEDMAN, LEEDOM & FERGUSON, P.C. United States Patent Rights

ATTORNEY DOCKET NO.

0756-1912

ASSIGNMENT

	Serial No. <u>09/2</u>	219,722		Filed _	December 23	, 1998
	WHEREAS, _	Masayuki SAKA	AKURA,			
		Yasuyuki ARAl	and			
nsert Name(s) of Inventor(s)		Shunpei YAMAZ	ZAKI			
insert Title of	(hereinafter design	nated as the undersigned) h	nas (have) invented certain r	new and us	seful improvements in	
nvention		PHOTOELECTRIC	C CONVERSION DE	VICE A	AND PROCESS F	OR
		PRODUCING PHO	TOELECTRIC CON	VERSI	ON DEVICE	
insert Date of Signing of Application			f the United States of Amer			ersigned on ; and
Insert Name of Assignee						
Insert Address of Assignce	of 398, Ha	ase, Atsugi-sh	i, Kanagawa-ken	243-0	0036 Japan	
	acquiring the ent		and assigns (hereinafter in and to said invention and to said invention and crica;			
	receipt of which sold, assigned ar exclusive right possessions and therefor in the University	is hereby acknowledged, and transferred, and by these to the said invention in the entire right, title and nited States of America and	of the sum of One Dollar of and other good and valuable presents do sell, assign at the United States of American interest in and to any and dist territories, dependencing the self-self-self-self-self-self-self-self-	le conside and transf erica and all Letter es and pos	ration, the undersigned or unto said Assignce its territories, depend s Patent(s) which may sesssions, and in and to	i has (have) the full and dencies and be granted any and all

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PATENT

granted.

PATENT REEL: 9872 FRAME: 0376 The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference v hich may be declared concerning this application or any continuation, division or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignce in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims under or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent(s) to the Assignce and to vest all rights therein hereby conveyed to said Assignce as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby convenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Sixbey, Friedman, Leedom & Ferguson, P.C. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

In witness whereof, this Assignment has been executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 03/12/1999	, Name of Inventor		Sakakura	_(SEAL)
Date 02/18 //999	•	y asnywh (signature)	hu	(SEAL)
Date 02/19/99	Name of InventorShunpei YAMAZAKI	(signature)	Jalu	(SEAL)
Date	, Name of Inventor	(signature)		_(SEAL)
Date	, Name of Inventor	(signature)		_(SEAL)

(This assignment should preferably be acknowledged before a United States Consul or Notary Public. If not, then the execution by the Inventor(s) should be witnessed by at least two other persons who should sign here.)

Witness		
	(name)	(signature)
Witness		
	(name)	(signature)
Witness		
-	(name)	(signature)

PATENT REEL: 9872 FRAME: 0377

RECORDED: 03/29/1999