Electronic Version v1.1 Stylesheet Version v1.1

NATURE OF CONVEYANCE: Corrective Assignment to correct the Fourth inventor's name previously recorded on Reel 022093 Frame 0291. Assignor(s) hereby confirms the Assignment.	SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT				
	NATURE OF CONVEYANCE:	recorded on Reel 022093 Frame 0291. Assignor(s) hereby confirms the				

CONVEYING PARTY DATA

Name	Execution Date
Yoshitoshi KIDA	12/10/2008
Jarupoonphol WERAPONG	12/04/2008
Daisuke ITO	12/10/2008
Takeya TAKEUCHI	12/05/2008

RECEIVING PARTY DATA

Name:	SONY CORPORATION		
Street Address: 1-7-1 Konan, Minato-ku			
City: Tokyo			
State/Country:	Japan		
Postal Code:	108-0075		

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	12348234		

CORRESPONDENCE DATA

Fax Number: (703)413-2220

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: (703) 413-3000 Email: mpena@oblon.com Correspondent Name: Oblon, Spivak, et al. Address Line 1: 1940 Duke Street

Address Line 4: Alexandria, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	333675US8X
NAME OF SUBMITTER:	Teresa Pena

PATENT REEL: 022119 FRAME: 0959

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Total Attachments: 4 source=333675US ASSIGNMENT#page1.tif

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PATENT REEL: 022119 FRAME: 0960 USPTO

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TO: OBLON, SPIVAK, ET AL. COMPANY: 1940 DUKE STREET

DATENT	ASSIGNMENT	
PAIENI	ASSIGNMENT	

Electronic Version v1.1 Stylesheet Version v1.1 01/12/2009 500751943

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date			
Yoshitoshi KIDA	12/10/2008			
Jarupoonphol WERAPONG	12/04/2008			
Daisuke ITO	12/10/2008			
Takeuchi TAKEYA	12/05/2008			

RECEIVING PARTY DATA

Name:	SONY CORPORATION		
Street Address:	1-7-1 Konan, Minato-ku		
City:	Tokyo		
State/Country:	Japan		
Postal Code:	108-0075		

PROPERTY NUMBERS Total: 1

Property Type	Number			
Application Number:	12348234			

CORRESPONDENCE DATA

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isamara@oblon.com Oblon, Spivak, et al.

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ATTORNEY DOCKET NUMBER: 333675US

NAME OF SUBMITTER: | Ibrahim Samara

Total Attachments: 2

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PATENT REEL: 022119 FRAME: 0961 USPTO

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TO:OBLON, SPIVAK, ET AL. COMPANY:1940 DUKE STREET

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PATENT

ASSIGNMENT OF PATENT APPLICATION

(Inventors)		(1)	Yoshitoshi KIDA a citizen of Japan of: 16 Elsenwood Drive Camberley S United Kingdom	Surrey GU15 2AZ				
			u .					
		(3)	Daisuke ITO a citizen of Japan of: 45 Cheylesmore Drive Camberley Sur United Kingdom	rey GU16 9BN				
			Takeuchi TAKEYA a citizen of Japan of: 6 Fenton Lodge Sandy Lane Ca Surrey GU15 2AG United Kingdom	mberley				
<i>(</i>)			nsideration of the sum of one dollar (\$1.00) and other good and valuable considersigned, the undersigned agree(s) to assign, and hereby does assign, transfer a					
(Assignee)	(5)	S	ONY CORPORATION Japanese body corporate					
(Address)	(6)		-7-1 Konan Minato-ku Tokyo 108-0075 Japan					
(Other Countries)		(hereina ories, dep	fter designated as the Assignee) the entire right, title and interest for the United endencies and possessions, and for the country of in the invention, and all applications for patent and any Lette ay granted therefor, known as					
(Title)	(8)	PRE-CH CIRCUI	IARGE SYSTEM FOR ON GLASS LCD DRIVING (Case No) T					
	Unite	for whiced States of	h the undersigned has (have) executed on even date herewith an application for f America or, if not on even date, then has executed	patent in the				
	(9)	on	or has already fil	ed in				
	(10)	U.S. app	In Serial Number 12/348,234 filed on January 2	2009				
	(11)		ersigned acknowledges an obligation of assignment of this invention to said assi a was made	gnee at the time the				
interference wassignments in act which may Property or si 2) The States patent (3) The Of the United Assignee of the assigned, and 4) The on this assignment (1) In with	which me conner y be ne milar a e under to the A e under States ne entire that he e under ment a Office ness where we was a constant of the contest of the contest of the	nay be decection with ecessary in agreements resigned agassignee. resulting the interest, the has (they resigned he ny further for record hereof, ex	gree(s) to perform all affirmative acts which may be necessary to obtain a grant of creby authorize(s) and request(s) the Communication of Patents to issue any and from said application or any division or divisions or continuing thereof to the sat and hereby convenants that he has (they have) full right to convey the entire into have) not executed and will not execute, any agreement in conflict herewith. Creby grant(s) the firm of Oblon Spivak McClelland Maier & Neustadt, P.C. the identification which may be necessary to desirable in order to comply with the ation of this document. Secuted by the undersigned on the date(s) opposite the undersigned signature(s).	separate er to perform any ction of Industrial of valid United all Letters patent id Assignee, as terest herein he power to insert rules of the United				
Date <u>10</u>	Dec 2	200 S	Signature of Inventor Yushilashi Kida					
			Signature of Inventor					
Date × 10.	-DEC	-2008	Signature of Inventor Points to	(3)				
Date ×			Signature of Inventor 🐰	(4)				
Witne	ssed by	/						
Witness			Date	_				

PATENT REEL: 022119 FRAME: 0963

ASSIGNMENT OF PATENT APPLICATION

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- Yoshitoshi KIDA a citizen of Japan of: 16 Elsenwood Drive Camberley Surrey GU15 2AZ United Kingdom
- (2) Jarupoonphol WERAPONG a citizen of Thailand of: 7 Ban 25 Tamura-cho Atsugi-shi Kanagawa 243-0016 Japan
- Daisuke ITO a citizen of Japan of: 45 Cheylesmore Drive Camberley Surrey GU16 9BN United Kingdom
- Takeuchi TAKEYA a citizen of Japan of: 6 Fenton Lodge Sandy Lane Camberley Surrey GU15 2AG United Kingdom

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to (5)

(Assignee)

SONY CORPORATION Japanese body corporate

(Address)

(6) of

1-7-1 Konan Minato-ku Tokyo 108-0075 Japan

(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of

(Other Countries) in the invention, and all applications for patent and any Letters Patent

which may granted therefor, known as

(Title)

(8) PRE-CHARGE SYSTEM FOR ON GLASS LCD DRIVING (Case No) CIRCUIT

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed

(9) on

or has already filed in

(10) U.S. appln Serial Number

12/348,234

filed on

January 2, 2009

- (11) The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made
- 1) The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 2) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of valid United States patent to the Assignee.
- 3) The undersigned hereby authorize(s) and request(s) the Communication of Patents to issue any and all Letters patent of the United States resulting from said application or any division or divisions or continuing thereof to the said Assignee, as Assignee of the entire interest, and hereby convenants that he has (they have) 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.
- 4) The undersigned hereby grant(s) the firm of Oblon Spivak McClelland Maier & Neustadt, P.C. the power to insert on this assignment any further identification which may be necessary to desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date	<u> </u>	Signature of Inventor		(1)
Date	Dec 4, 2008	Signature of Inventor	Werapong Sarupoongshal	(2)
Date	<u> </u>	Signature of Inventor		(3)
Date	Dec 5 2008	Signature of Inventor <u>3</u>	Takeya TAKEUCHI	(4)
	Witnessed by	•	,	
Witness			Date	_
Witness			Date	

PATENT REEL: 022119 FRAME: 0964

RECORDED: 01/16/2009