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3 Toshihide TSUBATA 7	Street Address: 22-22, Nagaike-cho, Abeno-ku	
4 Masanori TAKEUCHI 8	City: Osaka-shi, Osaka	
	State/Country: Japan Zip: 545-8522	
Additional name/s of conveying party/ies attached?	23.p. 0 10 00 22	
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October 8, 2009, October 8, 2009,		
respectively	· ·	
	,	
4. Application number(s) or patent number(s):	s assignment is being filed together with a new application.	
A. Patent Application No(s).	B. Patent No(s).	
(1) 12/525,764	(1)	
(2)	(2)	
(3)	(3)	
Additional numbers att		
5. Name and address of party to whom correspondence	6. Total number of applications & patents involved:	
concerning document should be mailed:		
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Name: H. Warren Burnam, Jr.		
	Authorized to be charged to deposit account #14-1140	
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	8. The Commissioner is hereby authorized to charge any	
Street Address: Nixon & Vanderhye P.C.	deficiency in the fee(s) filed, or asserted to be filed, or which	
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Ada accid		
H. Warren Burnam, Jr. 900000000 Jesus January 28, 2010		
Name of Person Signing Signature Date		
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PATENT REEL: 023881 FRAME: 0490

ASSIGNMENT OF PATENT APPLICATION

(Inventors)

Kenji ENDA Ikumi ITSUMI Toshihide TSUBATA Masanori TAKEUCHI

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

(Assignee) (Address) SHARP KABUSHIKI KAISHA

of 22-22 Nagaike-cho Abeno-ku Osaka-shi Osaka 545-8522 Japan,

(hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of in the invention, and all application(s) for patent and any Letters Patent which may

(Other Countries) (Title)

be granted therefor, known as

ACTIVE MATRIX SUBSTRATE, LIQUID CRYSTAL PANEL, LIQUID CRYSTAL DISPLAY UNIT, LIQUID CRYSTAL DISPLAY DEVICE, TELEVISION RECEIVER, ACTIVE MATRIX SUBSTRATE MANUFACTURING METHOD, AND LIQUID CRYSTAL PANEL

MANUFACTURING METHOD (Case No. -)

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 on or has already filed in

U.S. appln. Serial No. 12/525,764, filed on August 4, 2009.

The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

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.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants 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.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE 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 United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

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

PATENT REEL: 023881 FRAME: 0491

Date October 14,2009	Signature of inventor	Kenji Enola Kenji ENDA
Date October 8, 2009	Signature of inventor	Okumi Otsumi
Date Otober 8, 2009	Signature of inventor	Toshihide Tsubata Toshihide TSUBATA
Date October 8, 2009	Signature of inventor	Masanori Jakeuchi Masanori TAKEUCHI
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Date	Signature of inventor	
Date	Signature of inventor	·
Date	Signature of inventor	

RECORDED: 01/28/2010