RI 103266067	Form PTO-1595 1-31-92 JUN 2 6 2006	06-29	-2006		epartment of Commercia
IJPERENSOUNT Our Re INTERNSOUNT In the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): Kumhiro TASHIRO Seiji DOI Yasutoshi TASAKA Tomoshige ODA Hidefumi YOSHIDA Manabu SAWASAKI Yoshinori TANAKA Tomonori TANOSE Additional name's of conveying party/ies attached? 2 3. Nature of conveyange: Conveying party/ies attached? 3. Nature of conveyange: Merger Scentry Assignment Merger Stace/Country: Japan Zip: Additional name's & address: Zip: Additional name's & address/es attached? Yes Yes April 1, 2006, April 1, 2006, April 20, 2006, April 20, 2006, April 10, 2006, April	A				t and Trademark Offic
10 the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. 1. Nume of conveying party(ies): 2. Name and address of receiving party(ies): Kundhiro TASHIRO Seiji DOI Yasuloshi TASAKA Tomoshige ODA Hidefumi YOSHIDA Manabu SAWASAKI Yoshinori TANAKA Tomosori TANOSE Additional name/s of conveying party/ies attached? State/Country: Japan 3. Nature of conveying party/ies attached? State/Country: Japan 3. Nature of conveying party/ies attached? State/Country: Japan 3. Nature of conveying party/ies attached? State/Country: Japan State/Country: Zip: Additional name/s & address/es attached? Yes State/Country: Zip: Additional number(s): This assignment is being filed together with a new application No(s). (1) 1/300,646 (1) (2) (3) Additional numbers State/Country: State/State		103260 Paten	6067 IS UNL 1		Our Ref.: 479
Kunhiro TASHIRO Seiji DOI Yasutoshi TASAKA Tomoshige ODA Hidefumi YOSHIDA Manabu SAWASAKI Yoshinori TANAKA Tomoroi TANOSE Additional name's of conveying partyles attached? (1) Name: Sinature of conveyance: Merger Somiry Assignment Merger Somiry Assignment Change of Name Other April 4, 2006, April 12, 2006, April 20, 2006, April 11, 2006, April 12, 2006, Incomposition No(s). (1) 11/300,646 (1) (2) Street Address: Street Address: Name: H. Warren Burnam, Jr. Street Address: Internal Address: Yes Street Address: Yes	To the Director of the U.S. Patent and Trademar	k Office: Please rec	cord the attached ori	ginal documents or cop	y thereof.
Yasutoshi TASAKA Tomoshige ODA Hidefumi YOSHIDA Manabu SAWASAKI Yoshinori TANAKA Tomonori TANOSE Additional name/s of conveying party/ies attached? Street Address: 22-22, Nagaike-cho, Abeno-ku City: Osaka-shi, Osaka Stature of conveyance: (2) Name: Assignment Merger Stature of conveyance: (2) Name: Stature of conveyance: April 4, 2006, April 20, 2006, April 20, 2006, April 11, 2006, April 11, 2006, April 20, 2006, April 11, 2006, April 11, 2006, April 20, 200, 2006, April 20, 200, 2006, April 20, 200, 200, 200, 20	1. Name of conveying party(ies):	2	2. Name and address	of receiving party(ies):	
Additional name/s of conveying party/ies attached?	Yasutoshi TASAKATomoshige ODAHidefumi YOSHIDAManabu SAWAS		Street Address: 2 City: Osaka-sh	22-22, Nagaike-cho, Ab i, Osaka	eno-ku
3. Nature of conveyance:	Yoshinori TANAKA Tomonori TANC	DSE	State/Country.	apan	Zip. 545-8522
□ Other April 4, 2006, May 22, 2006, April 20, 2006, April 1, 2006, April 24, 2006, April 11, 2006, April 24, 2006, April 20, 2006, April 20, 2006	3. Nature of conveyance:		Street Address: City:		7:
Execution Date: April 4, 2006, April 20, 2006, April 20, 2006, April 11, 2006, April 16, 2006, April 16, 2006, April 16, 2006, arspectively 4. Application number(s) or patent number(s): This assignment is being filed together with a new application No(s). (1) 11/300,646 (2) (2) (3) 3. Additional numbers attached □ Yes ⊠ No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: H. Warren Burnam, Jr. Internal Address: 6. Total number of applications & patents involved: 7. Total fee (37 CFR 3.41) \$_40.00 ⊠ Enclosed □ Ol North Glebe Road □ 11th Floor Ettics City: Arlington Ol North Glebe Road 14-1140. DO NOT USE THIS SPACE 9. Statements and signature. 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 document. H. Warren Burnam, Jr. June 26, 2006 Name of Person Signing Reg. No. 29,366 Signature June 26, 2006 Name of Person Signing Reg. No. 29,366 Signature June 26, 2006 Signature J			State/Country.		c.p.
A. Patent Application No(s). B. Patent No(s). (1) 11/300,646 (1) (2) (3) Additional numbers attached Yes S. Name and address of party to whom correspondence concerning document should be mailed: 6. Total number of applications & patents involved: Name: H. Warren Burnam, Jr. 6. Total number of applications & patents involved: Internal Address:	2006, April 7, 2006, Ap April 11, 2006, April 11 11, 2006, April 11, 2006 April 6, 2006 and Ap	pril 24, 2006, 1, 2006, April , May 9, 2006, ril 16, 2006,	Additional name/	's & address/es attache	ed? 🗌 Yes 🖾 No
 5. Name and address of party to whom correspondence concerning document should be mailed: Name:H. Warren Burnam, Jr Internal Address: Street Address: Nixon & Vanderhye P.C G. Total number of applications & patents involved: 7. Total fee (37 CFR 3.41) \$ 40.00 [\	A. Patent Application No(s). (1) 11/300,646 (2) (3)		B. Patent No(s). (1) (2) (3)	-	a new application.
Name: H. Warren Burnam, Jr. Internal Address:	5. Name and address of party to whom correspo				volved: 1
Internal Address:			Enclosed	-	
Street Address: Nixon & Vanderhye P.C.	Internal Address:			to be charged to deposit	account #14-1140
9. Statements and signature. 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 document. <u>H. Warren Burnam, Jr.</u> <u>June 26, 2006</u> Name of Person Signing Reg. No. 29,366 June 26, 2006 Total number of pages including original cover sheet, attachments, and document: [12] Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: [12]	901 North Glebe Road 11th Floor		deficiency in the fe should have been f filed in this applica	ee(s) filed, or asserted to iled herewith (or with a	b be filed, or which ny paper thereafter
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 document. H. Warren Burnam, Jr. Image: Warren Burnam, Jr. Name of Person Signing Signature Reg. No. 29,366 Date Total number of pages including original cover sheet, attachments, and document: [12] Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: [12]		DO NOT USE 7	THIS SPACE		
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Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services Director of the USPTO P.O. Box 1450, Alexandria VA, 22313, 1450	Total number of page				[12]
06/27/2006 HALIII 00000062 11300646 40.00 0P	Mail Stop Assignment Recordation Services, Dir	ector of the USPTO	9 (571) 273-0140, or 9, P.O. Box 1450, Al	mailed to: exandria, VA 22313-14	450

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Our Ref: 4799-2

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):	
Takashi TAKAGI	
Isao TSUSHIMA	
Tetsuya FUJIKAWA Norio SUGIURA	
NORO SUGIURA	
2. Name:	
Street Address:	
City:	
State:	
Zip:	
4. Application number(s) or patent number(s):	
A Detent Application N. (.)	
A. Patent Application No(s).	B. Patent No(s).
(4)	(4)
(5)	(5)
(6) (7)	(6)
(8)	(7)
(9)	
	(9)

Kunihiro TASHIRO Takashi TAKAGI (Inventors) Isao TSUSHIMA Yasutoshi TASAKA Hidefumi YOSHIDA **Tetsuya FUJIKAWA** Norio SUGIURA Yoshinori TANAKA Seiii DOI **Tomoshige ODA** Manabu SAWASAKI **Tomonori TANOSE** 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 Sharp Kabushiki Kaisha (Assignee) (Address) (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 in the invention, and all application(s) for patent and any Letters Patent which may be granted therefore, known as LIQUID CRYSTAL DISPLAY DEVICE (Case No. (Title) -) 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 or has already filed in (on (U.S. appln. Serial No. 11/300,646 filed on December 15, 2005). The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

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

Date <u>Apr. 4</u> , 2006	Signature of inventor	(Kunifiro Jashiro
Date <u>May, 22, 2006</u>	_ Signature of inventor	(<u>Kunihiro</u> Jashiro Kunihiro TASHIRO (<u>Jasatoshi Tasaka</u> Yasutoshi TASAKA
Date	Signature of inventor	(Hidefumi YOSHIDA
Date	Signature of inventor	(Yoshinori TANAKA
Date May. 29, 2006	Signature of inventor	(Seije Boi Seiji Doi
Date	Signature of inventor	(Tomoshige ODA
Date	Signature of inventor	(Manabu SAWASAKI
Date	Signature of inventor	(Tomonori TANOSE
Date May. 29; 2006	Signature of inventor	(<u>Jokashi Jakagi</u> Takashi TAKAGI
Date	Signature of inventor	(Isao TSUSHIMA
Date	Signature of inventor	(Tetsuya FUJIKAWA
Date	Signature of inventor	(Norio SUGIURA
Date	Signature of inventor	(
Date	Signature of inventor	(
Date	Signature of inventor	(
Date	Signature of inventor	(

- 2 -

(Inventors) Kunihiro TASHIRO Yasutoshi TASAKA Hidefumi YOSHIDA Yoshinori TANAKA Seiji DOI Tomoshige ODA

> Manabu SAWASAKI Tomonori TANOSE

Takashi TAKAGI Isao TSUSHIMA Tetsuya FUJIKAWA Norio SUGIURA

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

Date	Signature of inventor	(Kunihiro TASHIRO
Date	Signature of inventor	(Yasutoshi TASAKA
Date	Signature of inventor	(Hidefumi YOSHIDA
Date Apr. 7, 2006	Signature of inventor	(<u>Joshinoni tanaka</u> Yoshinori TANAKA
Date Apr. 24, 2006	Signature of inventor	(<u>leiju Doi</u> Seiji Doi
Date <u>Apr. 11. 2006</u>	Signature of inventor	(Jomoshige Oda Tomoshige ODA
Date <u>Apr. 11. 2006</u>	Signature of inventor	(<u>Manalu Sawasaki</u> Manabu SAWASAKI
Date Apr. 11, 2006	Signature of inventor	(<u><u><u>homenorii</u><u>hanose</u> Tomonori TANOSE</u></u>
Date <u>Apr. 11, 2006</u>	Signature of inventor	(<u>Jakashi Takagi</u> Takashi TAKAGI
Date	Signature of inventor	(Isao TSUSHIMA
Date <u>Apr. 6, 2006</u>	Signature of inventor	(<u>F. Fuyikuwa</u> Tetsuya FUJIKAWA
Date	Signature of inventor	(Norio SUGIURA
Date	Signature of inventor	(
Date	Signature of inventor	(
Date	Signature of inventor	(
Date	Signature of inventor	(

- 2 -

(Inventors) **Kunihiro TASHIRO** Yasutoshi TASAKA Hidefumi YOSHIDA Yoshinori TANAKA Seiji DOI **Tomoshige ODA** Manabu SAWASAKI

(Title)

Tomonori TANOSE

Takashi TAKAGI Isao TSUSHIMA **Tetsuya FUJIKAWA** Norio SUGIURA

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

Date	Signature of inventor	(
		(Kunihiro TASHIRO
Date	Signature of inventor	(Yasutoshi TASAKA
Date	Signature of inventor	(Hidefumi YOSHIDA
Date	Signature of inventor	(
	Signature of inventor	Yoshinori TANAKA
Date	Signature of inventor	(
		Seiji Doi
Date	Signature of inventor	(
		Tomoshige ODA
Date	Signature of inventor	(Manabu SAWASAKI
	o	
Date	Signature of inventor	(Tomonori TANOSE
Date	Signature of inventor	(
		(Takashi TAKAGI
Date May 9, 2006	Signature of inventor	(Law Tauchima
	-	Isao TSUSHIMA
Date	Signature of inventor	(
		Tetsuya FUJIKAWA
Date	Signature of inventor	(Norio SUGIURA
Date	Signature of inventor	(
Date	Signature of inventor	(
	orginature of inventor	(
Date	Signature of inventor	(
	Signature of inventor	
Date	Signature of inventor	(

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Takashi TAKAGI **Kunihiro TASHIRO** (Inventors) Isao TSUSHIMA Yasutoshi TASAKA **Tetsuya FUJIKAWA** Hidefumi YOSHIDA Yoshinori TANAKA Norio SUGIURA Seiii DOI **Tomoshige ODA** Manabu SAWASAKI Tomonori TANOSE 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 Sharp Kabushiki Kaisha (Assignee) (of 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan (Address) (hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions in the invention, and all application(s) for patent and any Letters Patent which may be granted therefore, known as (Title) LIQUID CRYSTAL DISPLAY DEVICE (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. 11/300,646 filed on December 15, 2005). The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

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

Date	Signature of inventor	(
		Kunihiro TASHIRO
Date	Signature of inventor	(Yasutoshi TASAKA
Date april 30, 2006	Signature of inventor	(<u>2fiafami Joshida</u> Hidefumi YOSHIDA
Date	Signature of inventor	(Yoshinori TANAKA
Date	Signature of inventor	
		(Seiji Doi
Date	Signature of inventor	(Tomoshige ODA
Date	Signature of inventor	(Manabu SAWASAKI
Date	Signature of inventor	(Tomonori TANOSE
Date	Signature of inventor	1
	3	Takashi TAKAGI
Date	Signature of inventor	(Isao TSUSHIMA
Date	Signature of inventor	(
Date	Signature of inventor	
		Norio SUGIURA
Date	Signature of inventor	(
Date	Signature of inventor	
Date	Signature of inventor	(
Date	Signature of inventor	(

- 2 -

(Inventors)	Kunihiro TASHIRO Yasutoshi TASAKA Hidefumi YOSHIDA Yoshinori TANAKA	Takashi TAKAGI Isao TSUSHIMA Tetsuya FUJIKAWA Norio SUGIURA
	Seiji DOI	
	Tomoshige ODA	
	Manabu ŠAWASAKI	·
	Tomonori TANOSE	
	In consideration of the sum of one	dollar (\$1.00) and other good and valuable
	considerations paid to each of the undersig	ned, the undersigned agree(s) to assign, and
	hereby does assign, transfer and set over t	0
(Assignee)	Sharp Kabushiki Kaisha	
(Address)	(of 22-22, Nagaike-cho, Abeno-ku, Osaka-	•
		e undersigned's entire right, title and interest
		encies and possessions in the invention, and
		Patent which may be granted therefore, known
/*****		
(Title)	LIQUID CRYSTAL DISPLAY DEVICE (Cas	•
		uted 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. 11/300,646	, filed on December 15, 2005).
	The undersigned acknowledges an obligation	
	assignee at the time the invention was mad	
	Ū	
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