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Application Number: 13966857

Document Date: 08/14/2013

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Form Revision Date: August 3, 2011

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known	
			Application Number	
			Filing Date	August 14, 2013
			First Named Inventor	Takeshi OOKAWARA
			Art Unit	
			Examiner Name	
Sheet 1 of 1	Attorney Docket Number	501.50463CX1		

U.S. PATENT DOCUMENTS						
Examiner Initials'	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
		US- 2009/0167721		7/2009	Hamm et al	
		US- 8,125,466		2/2012	Hamm et al	
		US- 2005/0046622		3/2005	Nakanishi et al	
		US- 6,078,274		6/2000	Inoue	
		US- 2008/0030483		2/2008	Choo et al	
		US- 2005/0190338		9/2005	Lim	
		US- 2006/0274049		12/2006	Spath et al	
		US- 6,814,452		11/2004	Kusuda et al	
		US- 2009/0086318		4/2009	Yaegashi et al	
		US- 7,906,216		3/2011	Yaegashi et al	
		US- 2001/0043291		11/2001	Kono et al	
		US- 2006/0274047		12/2006	Spath et al	
		US- 7,593,004		9/2009	Spath et al	
		US- 7,535,462		5/2009	Spath et al	
		US- 6,552,718		4/2003	Ahn et al	
		US- 8,228,453		7/2012	Yamazaki et al	
		US- 7,868,957		1/2011	Yamazaki et al	
		US - 2003/0090803		5/2003	Kusuda	
		US- 6,814,452		11/2004	Kusuda	
		US - 2011/0069036		3/2011	Anno	
		US - 2010/0085326		4/2010	Anno	
		US - 2010/0033443		2/2010	Hashimoto	

FOREIGN PATENT DOCUMENTS						
Examiner Initials'	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶ abs
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		JP 2002-342014	11/29/2002	NEC Microsystems Ltd		

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		Display Device with Touch Panel		
First Named Inventor/Applicant Name:		Takeshi Ookawara		
Filer:		Gregory Edwards Montone/joy aiken		
Attorney Docket Number:		1497.50463CX1		
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility application filing	1011	1	280	280
Utility Search Fee	1111	1	600	600
Utility Examination Fee	1311	1	720	720
Pages:				
Claims:				
Miscellaneous-Filing:				
Late Filing Fee for Oath or Declaration	1051	1	140	140
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1740

Electronic Acknowledgement Receipt	
EFS ID:	16590339
Application Number:	13966857
International Application Number:	
Confirmation Number:	1196
Title of Invention:	Display Device with Touch Panel
First Named Inventor/Applicant Name:	Takeshi Ookawara
Customer Number:	20457
Filer:	Gregory Edwards Montone/joy aiken
Filer Authorized By:	Gregory Edwards Montone
Attorney Docket Number:	1497.50463CX1
Receipt Date:	14-AUG-2013
Filing Date:	
Time Stamp:	16:06:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 1740
RAM confirmation Number	3133
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Transmittal of New Application	utl.pdf	176316 6b1dbbf749d4f73e0f56e7284f1b80d728a8006	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee.pdf	190080 e98f8670f0e5959335ceda3e827520e9d36e81b9	no	1
Warnings:					
Information:					
3	Specification	spec.pdf	1935434 1b56aab5a6e2634c190beac617ea7d8626f597b6	no	26
Warnings:					
Information:					
4	Drawings-other than black and white line drawings	dwg.pdf	464518 8effe2f39440f8fcf11d476f8783e0d9e1e4568a	no	10
Warnings:					
Information:					
5	Application Data Sheet	data.pdf	1107532 34f476b34f7410e8a9ccefb8bde5f22dc986570c	no	7
Warnings:					
Information:					
6	Transmittal Letter	ids.pdf	98531 bbec7dae2d6c760375977eb46bda3ec5eaa6856d	no	2
Warnings:					
Information:					
7	Information Disclosure Statement (IDS) Form (SB08)	sb08.pdf	203267 3a18a3d9cf4175a3f7b3420ed4199b74524cbf1d	no	1
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
8	Fee Worksheet (SB06)	fee-info.pdf	36512 229379ac91f5b74d01d9cd02238bcea8ff68ce3	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			4212190		

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New Applications Under 35 U.S.C. 111

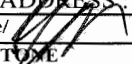
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UTILITY PATENT APPLICATION TRANSMITTAL		Attorney Docket No. 1497.50463CX1
		First Inventor Takeshi OOKAWARA
		Title Display Device with Touch Panel
(Only for new nonprovisional applications under 37 CFR 1.53(b))		Express Mail Label No.
APPLICATION ELEMENTS SEE MPEP chapter 600 concerning utility patent application contents.		Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450
1. ☒ Fee Transmittal Form (e.g., PTO/SB/17) <i>(Submit an original and a duplicate for fee processing)</i> 2. ☐ Applicant claims small entity status. See 37 CFR 1.27. 3. ☒ Specification [Total Pages <u>26</u>] Both the claims and abstract must start on a new page <i>(For information on the preferred arrangement, see MPEP 608 01(a))</i> 4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets <u>10</u>] 5. Oath or Declaration [Total Sheets _____] a. ☐ Newly executed (original or copy) b. ☐ Copy from a prior application (37 CFR 1.63 (d)) <i>(for continuation/divisional with Box 18 completed)</i> i. ☐ DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) Named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b) 6. ☒ Application Data Sheet. See 37 CFR 1.76 7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program <i>(Appendix)</i> i. ☐ Landscape Table on CD 8. Nucleotide and/or Amino Acid Sequence Submission <i>(if applicable, all necessary)</i> a. ☐ Computer Readable Form (CRF) b. ☐ Specification Sequence Listing on: i. ☐ CD-ROM or CD-R (2 copies); or ii. ☐ Paper c. ☐ Statements verifying identity of above copies		ACCOMPANYING APPLICATION PARTS 9. ☐ Assignment Papers (cover sheet & documents(s)) 10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney <i>(when there is an assignee)</i> 11. ☐ English Translation Document <i>(if applicable)</i> 12. ☒ Information Disclosure Statement (PTO/SB/08 OR PTO-1449) ☐ Copies of Citations attached 13. ☐ Preliminary Amendment 14. ☐ Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i> 15. ☐ Certified Copy of Priority Document(s) <i>(if foreign priority is claimed)</i> 16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent. 17. ☐ Other: _____ _____ _____
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: ☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: 12/649,414 Prior application information: Examiner: _____ Art Unit: _____		
19. CORRESPONDENCE ADDRESS: THE ADDRESS ASSOCIATED WITH CUSTOMER NUMBER <u>020457</u>		
Signature 	/Gregory E. Montone/	Date AUGUST 14, 2013
Name (Print/Type) GREGORY E. MONTONE	Registration No. (Attorney/Agent) 28141	

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<i>Effective on 12/08/2004</i> Fee pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).		<i>Complete if Known</i>					
<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <h2 style="margin: 0;">For FY 2005</h2>		Application Number					
		Filing Date	August 14, 2013				
		First Named Inventor	Takeshi OOKAWARA				
		Examiner Name					
☐ Applicant claims small entity status. See 37 CFR 1.27		Art Unit					
TOTAL AMOUNT OF PAYMENT	(\$1,740.00)	Attorney Docket No.	1497.50463CX1				
METHOD OF PAYMENT (check all that apply)							
☐ Check ☒ Credit Card ☐ Money Order ☐ None ☐ Other (please identify):							
☒ Deposit Account Deposit Account Number 01-2135 Deposit Account Name Antonelli, Terry, Stout & Kraus, LLP							
The Director is authorized to: (check all that apply)							
☐ Charge fee(s) indicated below		☐ Charge fee(s) indicated below, except for the filing fee					
☒ Charge any additional fee(s) or underpayments of fee (s) under 37 CFR 1.16 and 1.17		☒ Credit any overpayments					
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.							
FEE CALCULATION							
1. BASIC FILING, SEARCH, AND EXAMINATION FEES							
Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid \$
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	280	140	600	300	720	360	<u>1,600.00</u>
Design	180	90	120	60	460	230	
Plant	180	90	380	190	580	290	
Reissue	280	140	600	300	2,160	1,080	
Provisional	260	120	0	0	0	0	
2. EXTRA CLAIM FEES				Small Entity			
Fee Description	Fee (\$)	Small Entity Fee (\$)		Fee (\$)	Small Entity Fee (\$)		
Each claim over 20 (including Reissues)				80	40		
Each independent claim over 3 (including Reissues)				420	210		
Multiple dependent claims				780	390		
Total Claims				Multiple Dependent Claims			
				Fee (\$)	Fee Paid (\$)		
<u>5</u> -20 or HP = <u>0</u> x <u>0</u> = <u>0</u>					<u>0</u>		
HP= highest number of total claims paid for, if greater than 20.							
Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)				
<u>1</u> -3 or HP = <u>0</u> x <u>0</u> = <u>0</u>							
HP=highest number of independent claims paid for, if greater than 3.							
3. APPLICATION SIZE FEE							
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41 (a)(1)(G) and 37 CFR 1.16(s).							
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee(\$)	Fee Paid (\$)			
<u> </u> -100	<u>0</u>	<u> </u> /50= <u> </u> (round up to a whole number) x	<u>400.00</u>	= <u>0</u>			
4. OTHER FEE (\$)		Fee Paid (\$)					
Non-English Specification, \$140 fee (no small entity discount)		<u>0</u>					
Other (e.g., late filing surcharge): <u> </u> Late Declaration <u> </u>		<u>140</u>					

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

SPECIFICATION

TITLE OF THE INVENTION

DISPLAY DEVICE WITH TOUCH PANEL

CROSS-REFERENCE TO RELATED APPLICATION

This application is a continuation application of US Application Serial No. 12/649,414, filed December 30, 2009, the contents of which are incorporated herein by reference.

The present application claims priority from Japanese application JP 2009-004874 filed on January 13, 2009, the content of which is hereby incorporated by reference into this application.

BACKGROUND OF THE INVENTION

1. Field of the Invention

[0001]

The present invention relates to a display device with a touch panel.

2. Background Art

[0002]

As one of detection methods mainly adopted by a conventional display device with a touch panel, there has been known a detection method which detects a change of light and a detection method which detects a change of an electric characteristic. With respect to these detection methods, the detection method which detects a change of light has a drawback that detection accuracy is not stable.

[0003]

On the other hand, as the detection method which detects a change of an electric characteristic, there has been known a resistance film method and a capacity method.

[0004]

Fig. 20 shows a conventional capacity-type touch panel. A transparent electrode TLINE which covers the whole surface of a detection region is formed on an inner surface of a glass substrate GSUB. When a user touches a desired position of a touch panel from the outside of the glass substrate GSUB with his finger, capacity between the finger and the transparent electrode TLINE is detected so that coordinates on which the finger is placed is recognized.

[0005]

Fig. 21 shows a conventional resistance-film-type panel. A transparent electrode TLINE which covers the whole surface of a detection region is formed on a glass substrate GSUB as a film on one side, a transparent electrode TLINE is formed on a resin RESIN having light transmitting property as a film on another side, and this film is adhered to the glass substrate GSUB such that the transparent electrode TLINE on the resin RESIN faces the transparent electrode TLINE on the glass substrate GSUB in an opposed manner. To prevent the short-circuiting between the respective transparent electrodes TLINE, the transparent spacers SPACERS are arranged in plane so as to hold a fixed distance (several to several tens μm).

[0006]

Before the resistance-film-type touch panel shown in Fig. 21 is proposed, as described in JP-A-2002-342014 (patent document 1), there has

been known a method in which a transparent electrode is formed into stripe-shaped electrodes and these stripe-shaped transparent electrodes are made intersect with each other thus arranging intersecting portions in a matrix array.

[0007]

SUMMARY OF THE INVENTION

[0008]

The method disclosed in patent document 1 uses the stripe-shaped transparent electrodes and hence, to increase the detection accuracy, it is inevitably necessary to decrease a line width of the stripe-shaped transparent electrode. However, the transparent electrode having a narrow line width exhibits a high resistance value and hence, this method cannot maintain desired detection accuracy. Further, when a thickness of the transparent electrode is increased, it is necessary to take a taper formed by etching into consideration and hence, it is difficult to decrease a gap between the transparent electrodes.

[0009]

In view of the above-mentioned circumstances, the previously-mentioned resistance film method has been proposed. In this method, the transparent electrode has high resistance and hence, by making use of a potential difference of voltages applied to the transparent electrodes, input points, that is, contact positions of the upper and lower transparent electrodes are detected one-dimensionally, and such application of voltages and detection of potential difference are performed twice along an X axis and a Y axis so that two-dimensional coordinates are calculated.

[0010]

However, the above-mentioned resistance film method has following drawbacks.

A: The driving principle of this method is based on the application of high resistance property of the transparent electrode made of metal oxide and hence, when the transparent electrode is formed of a low resistance film, a voltage drop becomes small so that the detection becomes impossible.

B: Since the transparent electrode has high resistance, large-sizing of the touch panel becomes difficult so that a size limit from a practical point of view is considered 17 inches (approximately 200 mm × 300 mm).

C: To detect two or more input points, it is necessary to increase the detection frequency twice or more so that detection accuracy is lowered.

D: Patterning or forming of transparent electrodes are costly.

E: The transmissivity of the transparent electrode is limited to approximately 75% to 80% in view of a problem attributed to optical transmissivity of the transparent electrode.

F: A partial region of a touch panel touched in a concentrated manner in a usual inputting operation. Particularly, when a user performs inputting using a touch pen or with his finger, an external force is applied to input coordinates in a concentrated manner. Due to such an external force, the transparent electrode is bent using the input coordinates as the center and hence, a portion of the transparent electrode in the vicinity of the input coordinates is liable to be damaged.

G: Since the transparent electrode is made of metal oxide in general, the degradation of the transparent electrode which brings about the increase of

resistance of the transparent electrode per se is inevitable thus giving rise to a drawback with respect to reliability in lifetime.

H: It is necessary to detect a voltage drop by analogue detection and hence, a detection circuit is costly.

I: Flexible cables which connect the transparent electrodes and the circuits are costly.

J: Electric current flows in the transparent electrode and hence, the resistance of the transparent electrode is increased.

K: The transparent electrode is not transparent and hence, coloring occurs whereby a color range of a display panel is displaced.

[0011]

In view of such drawbacks, applicants of the present application proposed a touch panel which adopts the new detection structure (Japanese Patent Application 2007-149884). However, according to such a related art, since a plurality of lines are formed on a touch panel and hence, when a user moves a pen on an operation surface in a sliding manner, the user feels the surface unevenness. To overcome this drawback, the inventors of the present invention have made extensive studies to improve such a touch panel and have made a touch panel display device which gives further excellent touch feeling to a user.

[0012]

Accordingly, it is an object of the present invention to provide a display device with a touch panel which gives excellent touch feeling to a user.

[0013]

(1) According to one aspect of the present invention, there is provided a

display device with a touch panel which includes: a touch panel which includes a first substrate, a second substrate arranged to face the first substrate in an opposed manner with a gap formed therebetween, a first electrode which is constituted of a plurality of metal lines formed on a surface of the first substrate which faces the second substrate, and a second electrode formed on a surface of the second substrate which faces the first substrate; a display panel which is mounted on the second substrate on a side opposite to the first substrate; and a resin film which is adhered to the first substrate on a side opposite to the second substrate. According to the present invention, the resin film is adhered to the touch panel, the unevenness attributed to the first electrode is absorbed and hence, the touch panel can give a user excellent touch feeling.

[0014]

(2) In the display device with a touch panel having the constitution (1), the display panel may be a liquid crystal display panel which excludes a polarizing plate, a first polarizing plate may be adhered to a surface of the display panel opposite to the second substrate, and the resin film may constitute a second polarizing plate.

[0015]

(3) In the display device with a touch panel having the constitution (1), the resin film may constitute a circular polarizing plate.

[0016]

(4) In the display device with a touch panel having any one of the constitutions (1) to (3), a cushion layer which is softer than the resin film may be further interposed between the resin film and the touch panel.

[0017]

(5) In the display device with a touch panel having any one of the constitutions (1) to (3), an air cushion layer may be further interposed between the resin film and the touch panel.

[0018]

(6) In the display device with a touch panel having any one of the constitutions (1) to (3), a cushion layer which is softer than the resin film may be further interposed between the display panel and the touch panel.

[0019]

(7) In the display device with a touch panel having any one of the constitutions (1) to (3), an air cushion layer may be further interposed between the display panel and the touch panel.

BRIEF DESCRIPTION OF THE DRAWINGS

[0020]

Fig. 1 is a plan view schematically showing a display device with a touch panel according to an embodiment of the present invention;

Fig. 2 is a cross-sectional view schematically showing the display device with a touch panel according to the embodiment of the present invention;

Fig. 3 is a cross-sectional view schematically showing a display device with a touch panel according to a modification 1 of the embodiment of the present invention;

Fig. 4 is a cross-sectional view schematically showing a display device with a touch panel according to a modification 2 of the embodiment of the present invention;

Fig. 5 is a plan view schematically showing a display device with a

touch panel according to a modification 3 of the embodiment of the present invention;

Fig. 6 is a cross-sectional view schematically showing the display device with a touch panel according to the modification 3 of the embodiment;

Fig. 7 is a cross-sectional view schematically showing a display device with a touch panel according to a modification 4 of the embodiment of the present invention;

Fig. 8 is a cross-sectional view schematically showing a display device with a touch panel according to a modification 5 of the embodiment of the present invention;

Fig. 9 is a schematic plan view of the touch panel;

Fig. 10 is a cross-sectional view of the touch panel;

Fig. 11 is an enlarged cross-sectional view of a second substrate SUB2 within an AA region in Fig. 9;

Fig. 12 is a perspective view of the touch panel according to the embodiment of the present invention;

Fig. 13 is a perspective view of the touch panel according to the embodiment of the present invention;

Fig. 14 is a schematic plan view of the touch panel;

Fig. 15 is a schematic plan view of the touch panel;

Fig. 16 is a cross-sectional view of a substrate which constitutes the touch panel;

Fig. 17 is a cross-sectional view of a substrate which constitutes the touch panel;

Fig. 18 is a cross-sectional view of a substrate which constitutes the

touch panel;

Fig. 19 is a cross-sectional view of a substrate which constitutes the touch panel;

Fig. 20 is a view for explaining the principle of a conventional capacity-type touch panel; and

Fig. 21 is a view for explaining the principle of a conventional resistance-film-type touch panel.

DESCRIPTION OF THE PREFERRED EMBODIMENT

[0021]

Hereinafter, an embodiment of the present invention is explained in conjunction with drawings.

[0022]

Fig. 1 is a plan view schematically showing a display device with a touch panel according to the embodiment of the present invention. Fig. 2 is a cross-sectional view schematically showing the display device with a touch panel according to the embodiment of the present invention.

[0023]

The display device includes a touch panel (or referred to as "touch screen") 10. The touch panel 10 includes a first substrate 12, and a second substrate 14 which is arranged to face the first substrate 12 in an opposed manner with a gap formed therebetween. On a surface of the first substrate 12 which faces the second substrate 14 in an opposed manner, a first electrode 16 which is constituted of a plurality of metal lines is formed (omitted from Fig. 2). On a surface of the second substrate 14 which faces the first substrate 12 in an

opposed manner, a second electrode 18 is formed (omitted from Fig. 2). The second electrode 18 is also constituted of a plurality of metal lines. Spacers 20 are arranged between the first substrate 12 and the second substrate 14 thus preventing the first electrode 16 and the second electrode 18 from coming into contact with each other. The spacers 20 can be formed by screen printing.

[0024]

When a user touches an outer surface of the first substrate 12 with his finger or a pen, the first substrate 12 is recessed, and the first electrode 16 and the second electrode 18 are brought into contact and are electrically connected with each other. The detail of the touch panel 10 is described in the specification and drawings of Japanese Patent Application 2007-149884, and the content of the touch panel 10 is described later.

[0025]

The display device with a touch panel includes a display panel 22. The display panel 22 shown in Fig. 2 is a liquid crystal display panel (excluding a polarizing plate) which is constituted of a pair of substrates with liquid crystal not shown in the drawing sandwiched therebetween. The display panel 22 is mounted on the second substrate 14 of the touch panel 10 on a side opposite to the first substrate 12. A first polarizing plate 24 is adhered to a surface of the display panel 22 on a side opposite to the second substrate 14.

[0026]

A resin film 26 is adhered to the first substrate 12 on a side opposite to the second substrate 14. The resin film 26 constitutes a second polarizing plate (linear polarizing plate). That is, the liquid crystal display panel (excluding polarizing plate) which constitutes the display panel 22 is arranged

between the first polarizing plate 24 and the resin film 26 which constitutes the second polarizing plate. During transmission of light through the touch panel 10, even when the birefringence of light is generated due to the first electrode 16 and the second electrode 18 so that the polarization surfaces of light are not aligned, the resin film 26 which constitutes the second polarizing plate is arranged outside the touch panel 10 and hence, it is possible to align the polarization surfaces after light passes through the touch panel 10 thus realizing the liquid crystal display through the resin film 26.

[0027]

In the touch panel 10 according to this embodiment, the first electrode 16 is constituted of the plurality of metal lines. Accordingly, when a user touches the outer surface of the first substrate 12 with his finger or a pen in a sliding manner, due to convex portions formed by the first electrode 16 and the second electrode 18 and concave portions each of which is formed between neighboring metal lines, a user feels the unevenness of the outer surface. However, the resin film 26 is adhered to the touch panel 10 and hence, the unevenness attributed to the first electrode 16 (also attributed to the second electrode 18) can be absorbed whereby the user can enjoy excellent touch feeling.

[0028]

Fig. 3 is a cross-sectional view schematically showing a display device with a touch panel according to a modification 1 of the embodiment of the present invention. In the modification 1, a cushion layer 28 is arranged between the resin film 26 and the touch panel 10 (first substrate 12). The cushion layer 28 is softer than the resin film 26, and is made of silicone, for

example. The cushion layer 28 is transparent. According to the modification 1, the user can enjoy smoother writing feeling due to the provision of the cushion layer 28.

[0029]

Fig. 4 is a cross-sectional view schematically showing a display device with a touch panel according to a modification 2 of the embodiment of the present invention. In the modification 2, an air cushion layer 30 (that is, space) is formed between the touch panel 10 (first substrate 12) and the resin film 26. The first substrate 12 and the resin film 26 are arranged with a gap formed therebetween by way of a sealing material 32 so that the air cushion layer 30 is hermetically sealed. The sealing material 32 may have a cushion property. According to the modification 2, the user can enjoy smoother writing feeling due to the provision of the air cushion layer 30.

[0030]

Fig. 5 is a plan view schematically showing a display device with a touch panel according to a modification 3 of the embodiment of the present invention. Fig. 6 is a cross-sectional view schematically showing the display device with a touch panel according to the modification 3 of the embodiment. Although a display panel 122 shown in Fig. 6 is an organic electroluminescence display panel (hereinafter, referred to as an "organic EL display panel"), the display panel 122 may be a field emission display panel. The touch panel 10 is adhered to a display screen of the display panel 122, and a resin film 126 is adhered to the touch panel 10. The resin film 126 is a circular polarizing plate and hence, the resin film 126 can enhance the visibility by preventing the reflection of light.

[0031]

Fig. 7 is a cross-sectional view schematically showing a display device with a touch panel according to a modification 4 of the embodiment of the present invention. Although the display panel 122 shown in Fig. 7 is an organic EL display panel, the display panel 122 may be a field emission display panel. In the modification 4, the cushion layer 28 is arranged between the display panel 122 and the touch panel 10 (second substrate 14). The cushion layer 28 is softer than the resin film 126. The cushion layer 28 is transparent. According to the modification 4, the feeling of unevenness that a user perceives is further alleviated by the cushion layer 28 arranged below the touch panel 10 so that the user can enjoy smooth writing feeling.

[0032]

Here, a liquid crystal display panel may also be used as the display panel 122 shown in Fig. 7. In this case, in place of the organic EL display panel, a liquid crystal display panel to which the first polarizing plate 24 (see Fig. 3) is adhered on a side opposite to the cushion layer 28 is disposed, and the second polarizing plate is used as the resin film 126.

[0033]

Fig. 8 is a cross-sectional view schematically showing a display device with a touch panel according to a modification 5 of the embodiment of the present invention. Although the display panel 122 shown in Fig. 8 is an organic EL display panel, the display panel 122 may be a field emission display panel. In the modification 5, the air cushion layer 30 (that is, space) is formed between the touch panel 10 (second substrate 14) and the display panel 122. The second substrate 14 and the display panel 122 are arranged with a gap

formed therebetween by way of the sealing material 32 so that the air cushion layer 30 is hermetically sealed. The sealing material 32 may have a cushion property. According to the modification 5, the feeling of unevenness which a user perceives is further alleviated by the air cushion layer 30 arranged below the touch panel 10 so that the user can enjoy the smooth writing feeling.

[0034]

Here, a liquid crystal display panel may also be used as the display panel 122 shown in Fig. 8. In this case, in place of the organic EL display panel, a liquid crystal display panel to which the first polarizing plate 24 (see Fig. 4) is adhered on a side opposite to the air cushion layer 30 is disposed, and the second polarizing plate is used as the resin film 126.

[0035]

[Touch panel]

The touch panel of present invention may combine with a touch panel described in the specification and drawings of Japanese Patent Application 2007-149884. The content of the touch panel is explained hereinafter.

[0036]

[Wiring layout mode 1]

Fig. 9 is a schematic plan view of the touch panel of this mode which adopts the touch panel described in the specification and drawings of Japanese Patent Application 2007-149884. The touch panel of this embodiment includes: a first substrate SUB1 and a second substrate SUB2 which are resin films made of polyethylene terephthalate (PET); a first peripheral circuit SC1; a second peripheral circuit SC2; a power source; and a detection signal output terminal.

[0037]

The first substrate SUB1 and the second substrate SUB2 are flexible printed circuit boards formed as follows. That is, a PET film and a copper foil having a film thickness reduced to 10 μm or less by a cold rolling process are adhered to each other using a decorative steel sheet technique. Thereafter, using an etching technique in which an etchant is ejected at high temperature and high pressure, metal is processed into stripe-shaped metal lines (wiring) (a first electrode and a second electrode) each having a taper angle of 80 degrees to 90 degrees respectively. The first substrate SUB1 and the second substrate SUB2 are arranged so that their respective metal lines face each other in an opposed manner and that the extending direction of the metal lines on the first substrate SUB1 and extending direction of the metal lines on the second substrate SUB2 intersect with each other.

[0038]

The first peripheral circuit SC1 is connected to the first substrate SUB1, and sequentially selects the metal lines by line so as to sequentially input a voltage to these lines from the power supply. The second peripheral circuit SC2 is connected to the second substrate SUB2, and sequentially selects the metal lines by line so as to sequentially detect a voltage to these lines from the power supply.

[0039]

Fig. 10 is a cross-sectional view of a touch panel of this embodiment. The touch panel includes the first substrate SUB1, the second substrate SUB2 and spacers SPACER. The second substrate SUB2 is fixed to the first substrate SUB1 using a sealing material not shown in the drawing by way of the

spacers SPACER.

[0040]

Fig. 11 is an enlarged cross-sectional view of the second substrate SUB2 within an AA region in Fig. 9. As described previously, metal lines MLINE are arranged on the polyethylene terephthalate (PET) film.

[0041]

According to this embodiment of the present invention, by adhering resin films provided with metal lines to each other by way of the spacers, the basic recognition structure can be realized, thus making it possible to manufacture an inexpensive touch panel which allows high-speed multipoint inputting and exhibits high durability. Further, a bright display can be realized by reducing a width of the metal line into less than 50% of the wiring pitch of the metal lines.

[0042]

By providing the spacers in the gap, it is possible to ensure a uniform gap between the substrates SUB1, SUB2. Further, a maximum width of a planar shape of the spacer as viewed from the substrate direction is set larger than the wiring pitch of the metal lines. Accordingly, it is possible to prevent short-circuiting between the metal lines which face each other in an opposed manner attributed to the deformation of the resin film substrate, and it is also possible to suppress erroneous recognition of the touch panel. Further, a maximum width of a planar shape of the spacer as viewed from the substrate direction is set larger than the wiring pitch of the metal lines and hence, a possibility of short-circuiting can be reduced. Further, different from lines made of ITO, the metal lines do not allow light to pass therethrough. Accordingly, the

width of the metal line is set to less than 50% of the wiring pitch of the metal wiring so as to prevent the reduction of transmissivity. By setting the wiring width to 13 to 20 μm , an inexpensive photo mask is available. The metal line is formed of an opaque metal film and can be made of carbon (C), nonferrous metal such as copper (Cu), stainless steel (SUS) or iron (Fe) besides aluminum (Al). As the resin used for forming the first substrate SUB1 and the second substrate SUB2, it is possible to use triacetyl cellulose (TAC) besides polyethylene terephthalate (PET). Other materials may be also used provided that a film made of such materials exhibits low birefringence in the same manner as the above-mentioned materials.

[0043]

According to the embodiment of the present invention, a fine wiring pattern made of metal can sufficiently achieve the high definition of 300 lpi (line per inch). That is, the wiring pattern of this embodiment can increase the resolution thereof ten times or more compared to the resolution of a conventional example which is approximately 10 ppi (point per inch). In addition, the fine metal wiring pattern can be manufactured even when the metal line has a width of 10 μm and a thickness of approximately 10 μm . Therefore, by designing the fine wiring pattern such that the resolution of approximately 100 lpi is obtained, it is possible to improve the transmissivity of the resist-film-type touch panel compared to transmissivity of the conventional resist-film-type touch panel.

[0044]

Although there may be a problem in terms of cost, the metal wiring can be manufactured not only by etching but also by precipitation, plating or the like.

[0045]

To set forth the advantageous effects brought about by this embodiment of the present invention, they are as follows.

(1) With the use of the metal lines or metal wiring which are subject to addressing, a plurality of points can be detected simultaneously.

(2) Due to the advantageous effects set forth in (1), the detection can be performed by a digital circuit leading to the reduction of cost.

(3) Patterning of the transparent electrode becomes unnecessary leading to the reduction of cost.

(4) The metal wiring pattern and the flexible cable pattern can be formed simultaneously leading to the reduction of cost and the enhancement of reliability.

(5) The metal lines exhibits low resistance and hence, it is possible to increase a size of the touch panel to 40 inches or more (diagonally 1 meter or more) thus expanding an application of the display device with a touch panel to an area where mounting of a touch panel on a display device is difficult conventionally.

(6) It is sufficiently possible for the metal wiring to have a definition of 300 lpi or more and hence, the resolution can be increased 10 times or more compared to the current resolution of approximately 10 ppi.

(7) By using the above-mentioned high resolution and function of detecting a plurality of points simultaneously, it is possible to distinguish the difference in an object to be inputted to the touch panel or a method for inputting an object to the touch panel. For example, the difference between a stylus and a finger can be distinguished based on the difference in the number of detection

points.

(8) By changing the color of the above-mentioned metal lines into black, it is possible to increase a contrast of a display such as a liquid crystal display on which a touch panel is mounted.

(9) The coordinate detection is performed using the metal lines (each line having a thickness of 10 μm) and hence, the reliability in lifetime such as the number of detection times is increased 10 times or more compared to the conventional transparent electrode (having a thickness of several hundred nm).

(10) The metal lines exhibit low resistance and hence, the detection can be performed digitally. Accordingly, this embodiment can realize a high-speed and high-definition detection whose detection speed and detection accuracy are approximately 100 times or more higher than corresponding detection speed and detection accuracy of a conventional analog detection mechanism adopting a resistive film system.

[0046]

[Wiring layout mode 2]

Fig. 12 is a perspective view of another touch panel according to this mode. The wiring layout mode 2 is a modification of wiring layout mode 1. In this mode, wirings for detection which face each other in an opposed manner are changed in structure. Fig. 12 differs from Fig. 9 in that a transparent electrode made of ITO is used as the wiring arranged on the first substrate SUB1, and the ITO covers a whole surface of a detection area. By using this mode, it is possible to realize the enhancement of reliability, the increase of a detection speed, and a simple multipoint detection mechanism.

[0047]

[Wiring layout mode 3]

Fig. 13 is a perspective view of another touch panel according to this mode. The wiring layout mode 3 of this mode is a modification of the wiring layout mode 1. In this mode, wirings for detection which face each other in an opposed manner are changed in structure. Fig. 13 differs from Fig. 12 in that the wiring arranged on the second substrate SUB2 is formed of a mesh of metal lines. By forming the metal wiring pattern as the mesh (lattice), the touch panel can be formed as a substitute for the resistance film. Accordingly, this mode can mainly contribute to the increase of the detection speed and the enhancement of reliability. In addition, by using two-dimensional patterning, the multipoint detection mechanism can be realized with a high speed and high accuracy even in combination with a conventional transparent electrode system. Further, although there may be a problem in terms of cost, a system which overcoats a fine metal pattern section with a transparent electrode is effective to realize large-sizing of a display device.

[0048]

[Wiring layout mode 4]

Fig. 14 is a schematic plan view of a touch panel according to a modification of this mode. Fig. 14 differs from Fig. 9 in that a terminal PAD for combining a plurality of metal lines MLINE is provided in order to detect voltages of the plurality of metal lines MLINE simultaneously, and a detection signal is outputted from each terminal PAD. When the coordinate detection of high accuracy is unnecessary, the plurality of metal lines MLINE are combined so as to enhance a recognition rate. This mode is applicable to the stripe-shaped metal wiring in the wiring layout modes 1 and 2.

[0049]

[Wiring layout mode 5]

Fig. 15 is a schematic plan view of a touch panel according to a modification of this mode. Fig. 15 differs from Fig. 9 in that the plurality of metal lines MLINE are made to extend up to external terminals formed on a resin while gradually decreasing a wiring pitch outside a detection area. In other words, without forming the external terminals and lines MLINE-F extending up to the external terminals on a substrate different from the base film, the external terminals and lines MLINE-F are formed on the same base film on which the plurality of metal lines MLINE are formed. This mode is applicable to the stripe-shaped metal wiring in the wiring layout modes 1 to 4. By adopting the wiring layout modes 1 to 4 in this manner, it is possible to simultaneously form the metal pattern and the flexible cable pattern for connection with circuits. A touch panel section and flexible cables are formed on the integral continuous resin thus realizing the reduction of the number of parts, the enhancement of reliability in connection, and the reduction of cost.

[0050]

[Wiring layout mode 6]

Fig. 16 is a cross-sectional view of a substrate constituting a touch panel according to a modification of this mode. Fig. 16 differs from Fig. 11 in that stripe-shaped transparent lines TLINE having the same pattern as the pattern of the metal lines MLINE are arranged under the metal lines MLINE. This mode is applicable to the stripe-shaped metal wiring in the wiring layout modes 1 to 5.

[0051]

[Wiring layout mode 7]

Fig. 17 is a cross-sectional view of a substrate constituting a touch panel according to a modification of this mode. Fig. 17 differs from Fig. 11 in that the transparent wiring (electrode) TLINE which covers a whole surface of a detection area is arranged under the metal lines MLINE. This mode is applicable to the stripe-shaped metal wiring in the wiring layout modes 1 to 5.

[0052]

[Wiring layout mode 8]

Fig. 18 is a cross-sectional view of a substrate constituting a touch panel according to a modification of this mode. Fig. 18 differs from Fig. 11 in that the transparent wiring (electrode) TLINE which covers a whole surface of a detection area is arranged above the metal lines MLINE. This mode is applicable to the stripe-shaped metal wiring in the wiring layout modes 1 to 5.

[0053]

[Wiring layout mode 9]

Fig. 19 is a cross-sectional view of a substrate constituting a touch panel according to a modification of this mode. Fig. 19 differs from Fig. 11 in that an inner-surface reflection preventive film REF made of a SiO_2 thin film which covers a whole surface of a detection area is arranged under the metal lines MLINE. This mode is applicable to the stripe-shaped metal wiring in the wiring layout modes 1 to 5. A conventional touch panel uses transparent electrodes thus pushing up a manufacturing cost. According to this mode, since the inner-surface reflection preventive film can be manufactured at a low cost, it is possible to manufacture a display device which satisfy both high display quality and a low manufacturing cost.

[0054]

The present invention is not limited to the above-mentioned embodiment and modifications, and various other modifications are conceivable without departing from the gist of the present invention. For example, the constitution explained in the embodiment can be replaced with the constitution substantially equal to the above-mentioned constitution, the constitution which can achieve the same manner of operation and advantages as the above-mentioned constitution or the constitution which can achieve the same object as the above-mentioned constitution.

What is claimed is:

1. A display device with a touch panel comprising:

the touch panel which includes a first substrate, and a second substrate arranged to face the first substrate in an opposed manner, wherein:

the first substrate and the second substrate each include a detection area configured to detect a coordinate and an outside area which includes external terminals,

the first substrate includes a plurality of first lines each configured to detect a coordinate,

the second substrate includes a plurality of second lines in the detection area which face the first substrate,

the plurality of second lines are configured of metal, and

a polarizing plate is arranged on the first substrate at a side opposite to the second substrate.

2. The display device with a touch panel according to claim 1, wherein the polarizing plate comprises a linear polarizing plate.

3. The display device with a touch panel according to claim 1, wherein the polarizing plate comprises a circular polarizing plate.

4. The display device with a touch panel according to claim 1, wherein the second lines comprise a second electrode each configured to detect a coordinate.

5. The display device with a touch panel according to claim 1, wherein a transparent electrode connects to the second lines.

ABSTRACT OF DISCLOSURE

A display device with a touch panel which includes a first substrate, and a second substrate facing the first substrate. The first and second substrates each include a detection area to detect a coordinate and an outside area which includes external terminals. The first substrate includes first lines to detect a coordinate, and the second substrate includes second lines, made of metal, in the detection area which face the first substrate. A polarizing plate is arranged on the first substrate at a side opposite to the second substrate.

FIG. 1

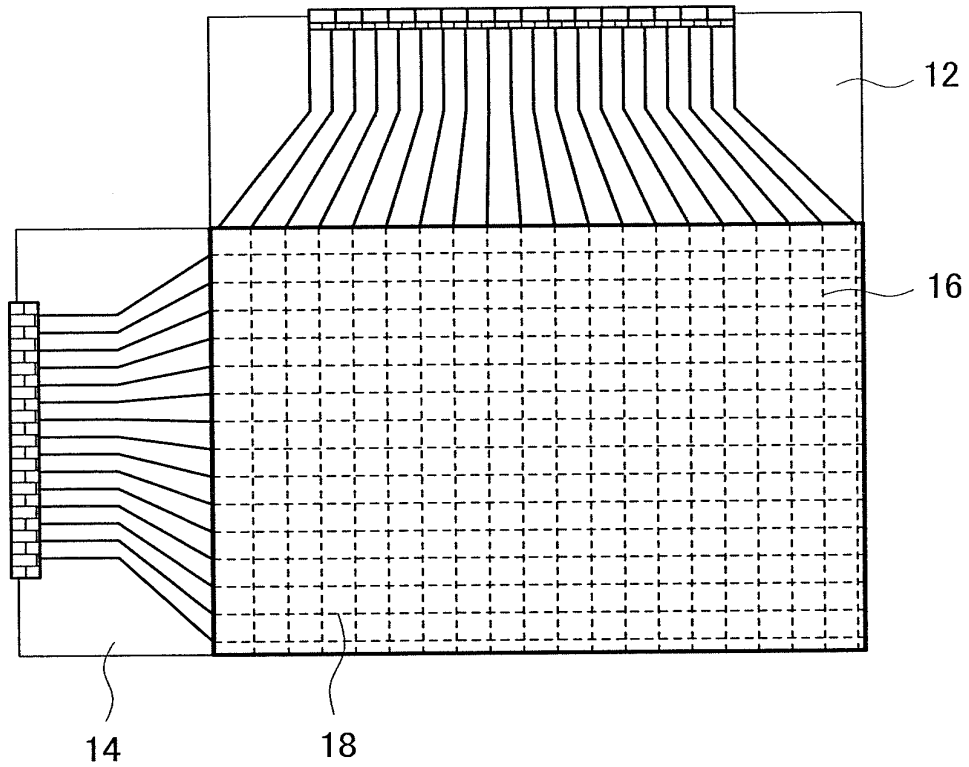


FIG. 2

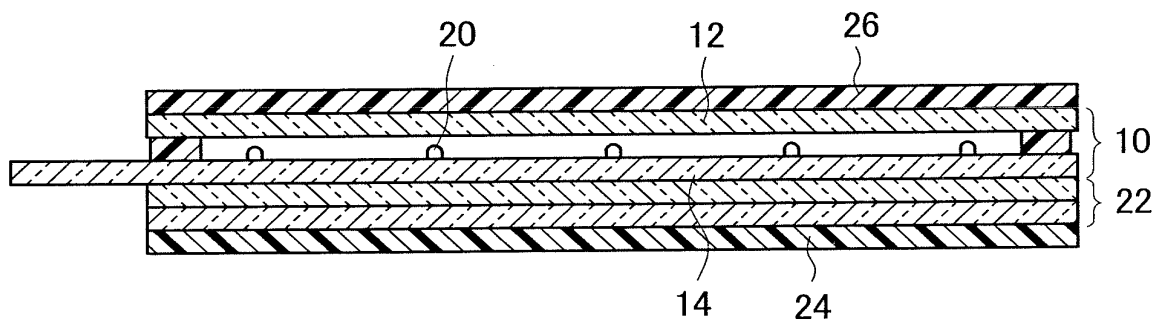


FIG. 3

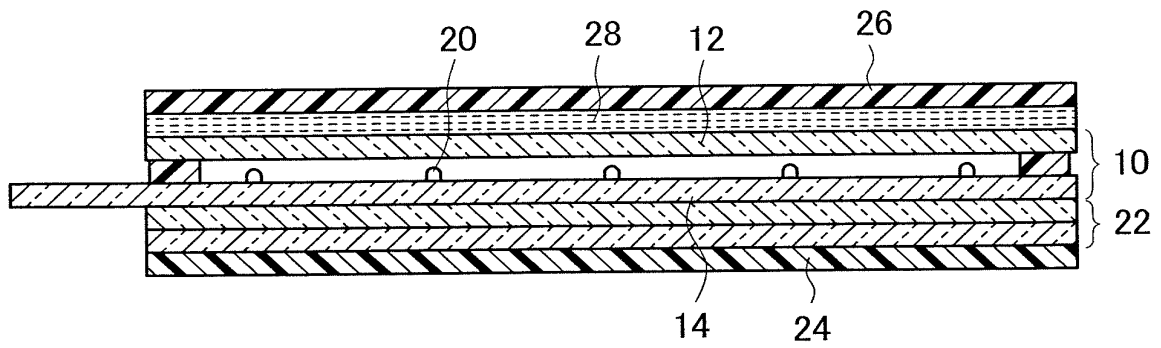


FIG. 4

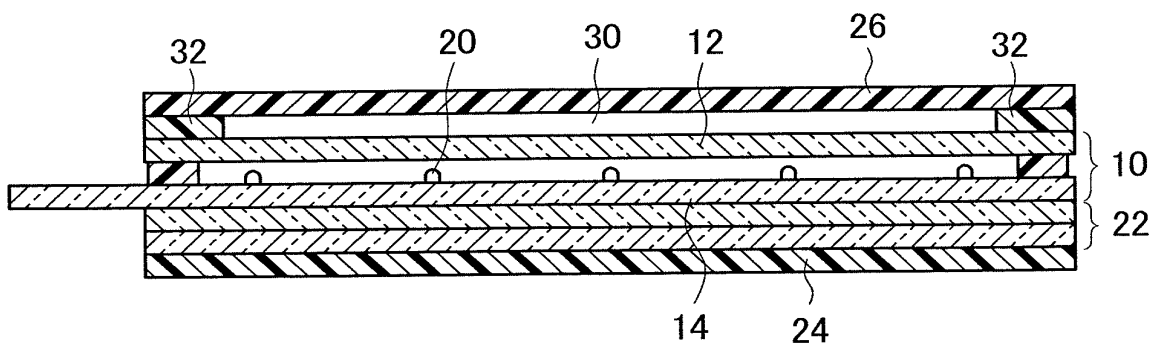


FIG. 5

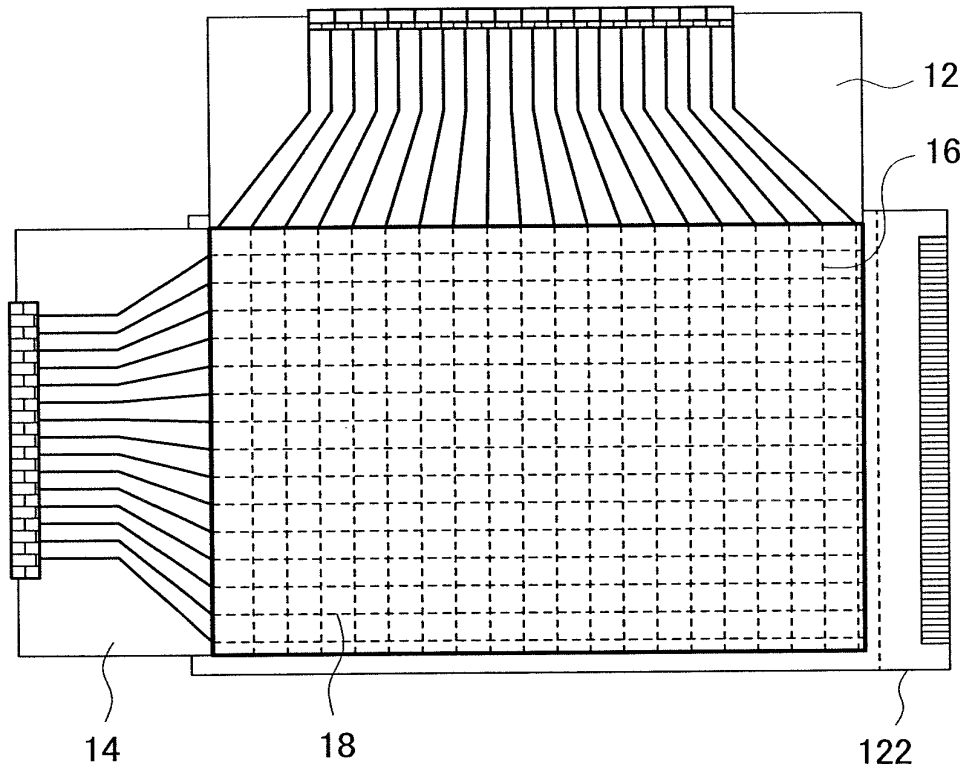


FIG. 6

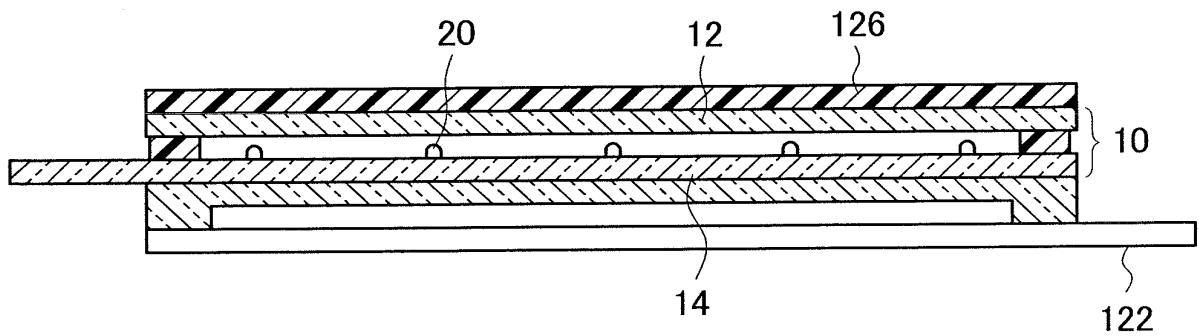


FIG. 7

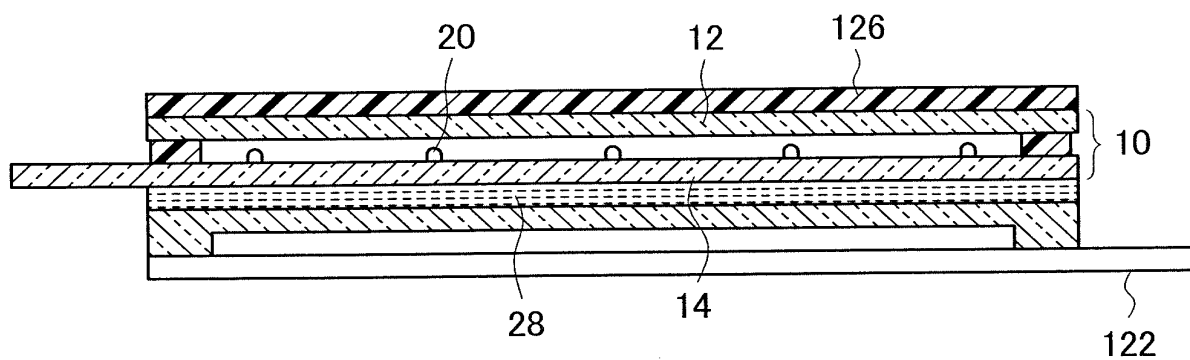


FIG. 8

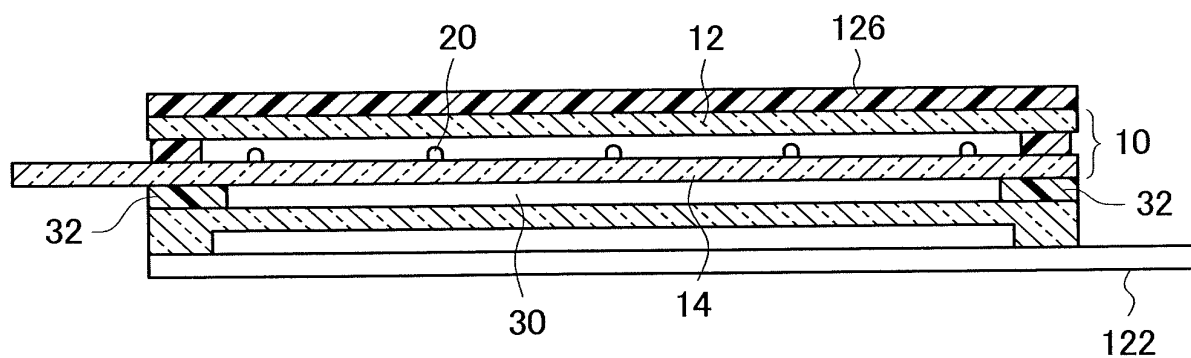


FIG. 9

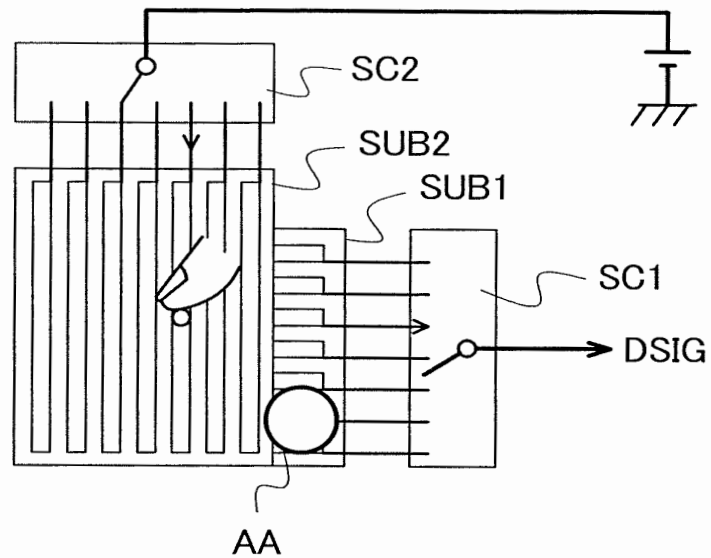


FIG. 10

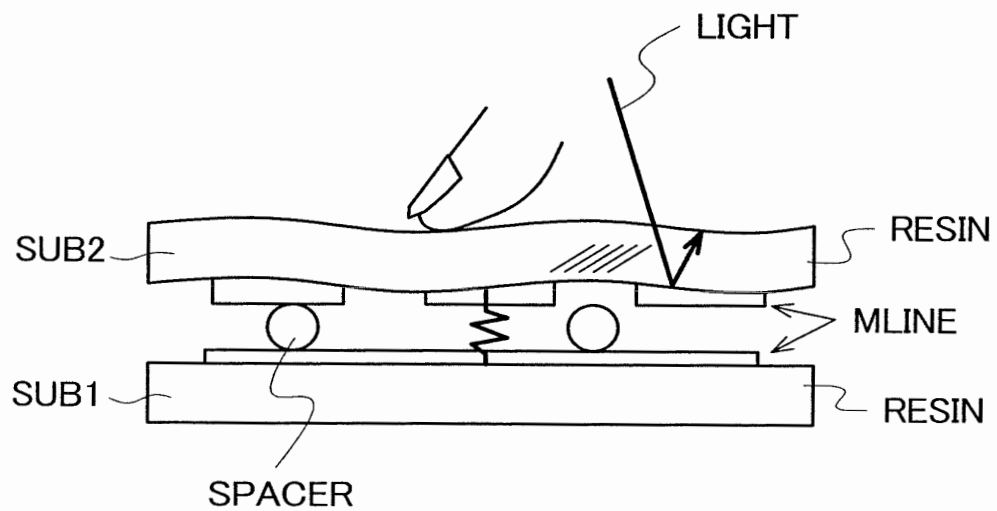


FIG. 11

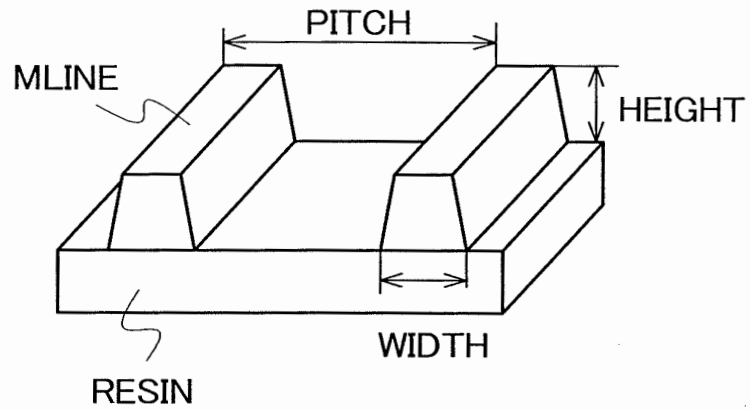


FIG. 12

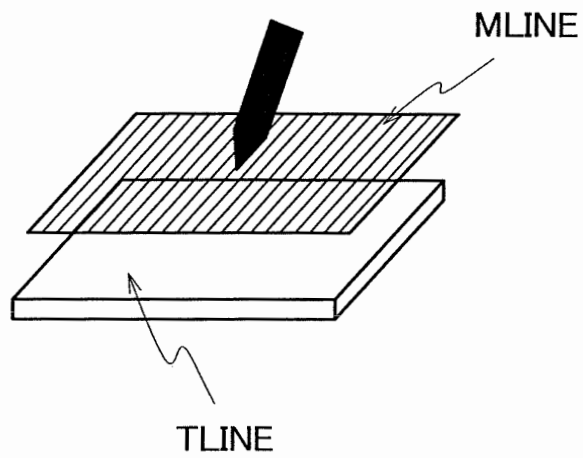


FIG. 13

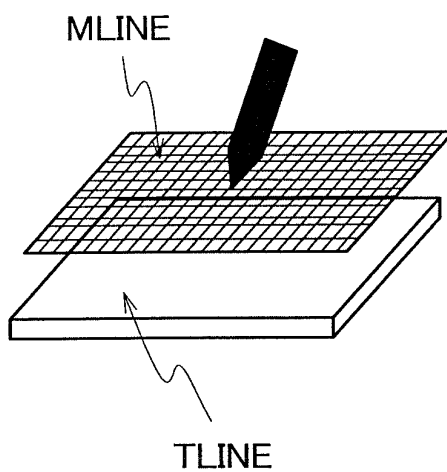


FIG. 14

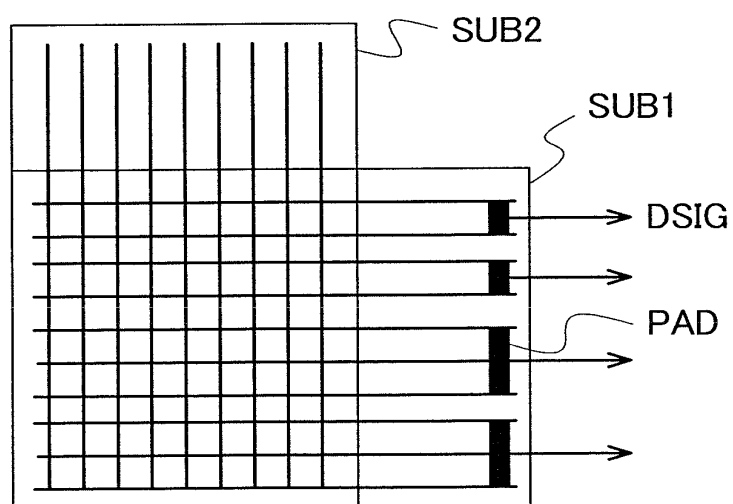


FIG. 15

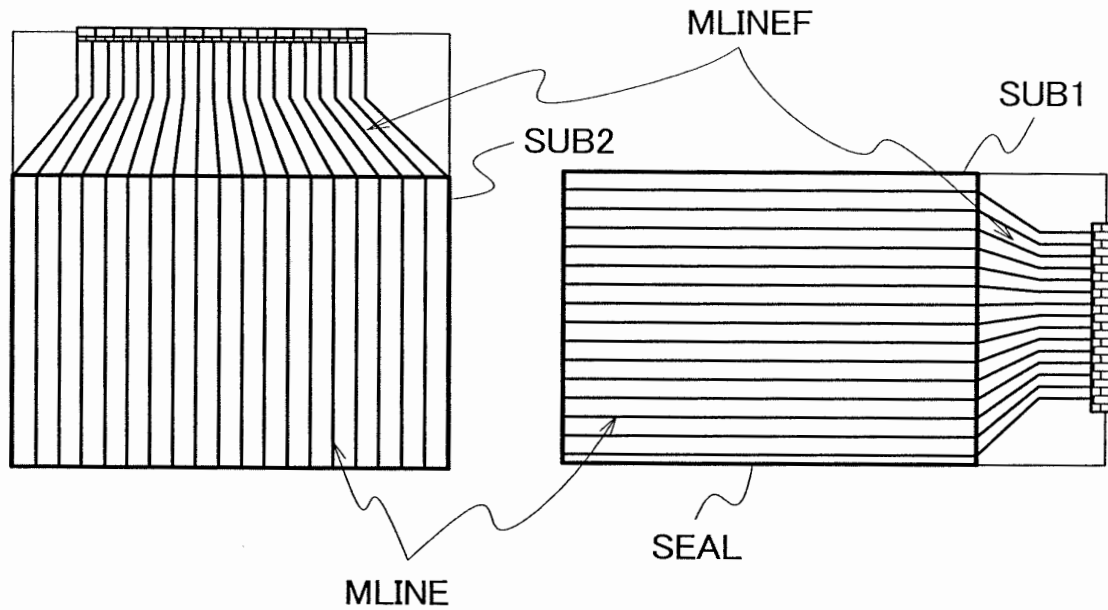


FIG. 16



FIG. 17

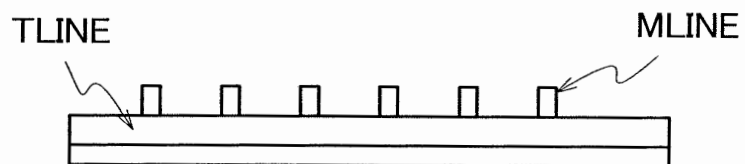


FIG. 18

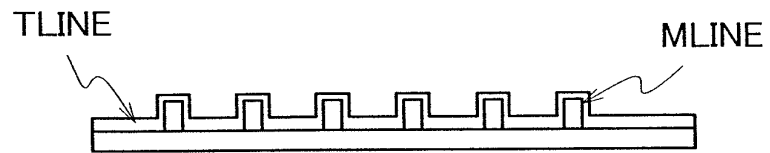


FIG. 19

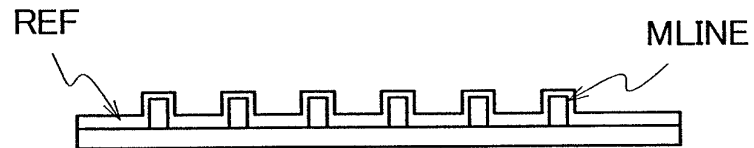


FIG. 20 (Prior Art)

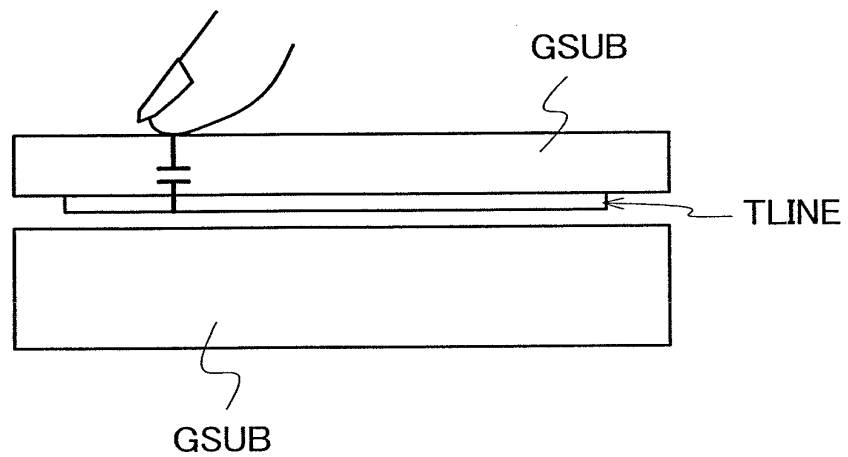
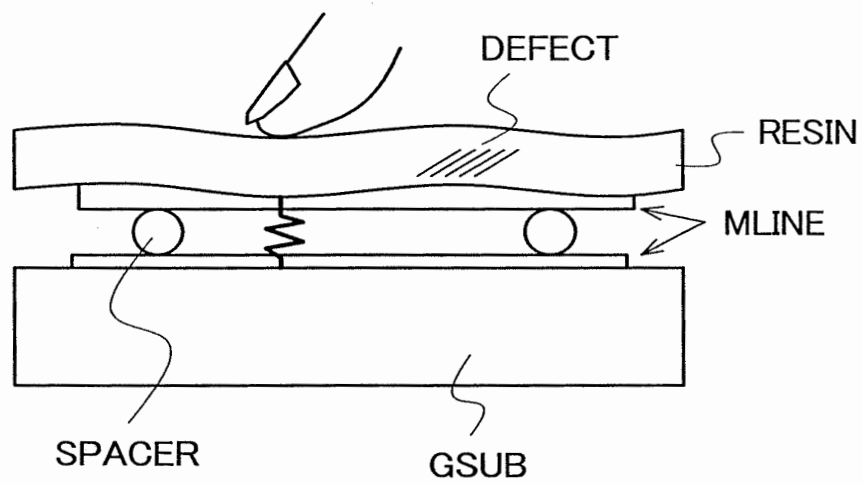


FIG. 21 (Prior Art)



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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1497.50463CX1
		Application Number	
Title of Invention	Display Device With Touch Panel		
<p>The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.</p> <p>This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.</p>			

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Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service					
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Address 2					
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Inventor 2					Remove
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Mailing Address of Inventor:					
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1497.50463CX1
		Application Number	
Title of Invention	Display Device With Touch Panel		

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☐ An Address is being provided for the correspondence information of this application.

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Application Information:

Title of the Invention	Display Device With Touch Panel		
Attorney Docket Number	1497.50463CX1	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	10	Suggested Figure for Publication (if any)	

Publication Information:

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Prior Application Status	Pending	<input type="button" value="Remove"/>	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	12/649414	2009-12-30

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1497.50463CX1
		Application Number	
Title of Invention	Display Device With Touch Panel		

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

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Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ^j (if applicable)
2009-004874	JP	2009-01-13	

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Authorization to Permit Access:

☒ Authorization to Permit Access to the Instant Application by the Participating Offices
--

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1497.50463CX1
		Application Number	
Title of Invention	Display Device With Touch Panel		

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
Applicant 1			Remove
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.			
Clear			
☒ Assignee	☐ Legal Representative under 35 U.S.C. 117	☐ Joint Inventor	
☐ Person to whom the inventor is obligated to assign.		☐ Person who shows sufficient proprietary interest	
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor : <input type="text"/>			
If the Applicant is an Organization check here. ☒			
Organization Name	Japan Display Inc		
Mailing Address Information:			
Address 1	3300 Hayano, Mobara-shi		
Address 2			
City	Chiba	State/Province	
Country ⁱ	JP	Postal Code	
Phone Number		Fax Number	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1497.50463CX1	
		Application Number		
Title of Invention	Display Device With Touch Panel			
Email Address				
Additional Applicant Data may be generated within this form by selecting the Add button.				<input type="button" value="Add"/>
Applicant 2				<input type="button" value="Remove"/>
<p>If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.</p>				
<input type="button" value="Clear"/>				
☒ Assignee		☐ Legal Representative under 35 U.S.C. 117		☐ Joint Inventor
☐ Person to whom the inventor is obligated to assign.		☐ Person who shows sufficient proprietary interest		
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:				
Name of the Deceased or Legally Incapacitated Inventor : 				
If the Applicant is an Organization check here. ☒				
Organization Name	Panasonic Liquid Crystal Display Co., Ltd.			
Mailing Address Information:				
Address 1	1-6, Megahida-cho, Shikama-ku, Himeji-shi			
Address 2				
City	Hyogo-ken	State/Province		
Country i	JP	Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Applicant Data may be generated within this form by selecting the Add button.				<input type="button" value="Add"/>

Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1497.50463CX1
		Application Number	
Title of Invention	Display Device With Touch Panel		

Assignee 1

Complete this section only if non-applicant assignee information is desired to be included on the patent application publication in accordance with 37 CFR 1.215(b). Do not include in this section an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest), as the patent application publication will include the name of the applicant(s).

Remove

If the Assignee is an Organization check here. ☐

Prefix	Given Name	Middle Name	Family Name	Suffix

Mailing Address Information:

Address 1			
Address 2			
City		State/Province	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee Data may be generated within this form by selecting the Add button.

Add

Signature:

Remove

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications

Signature	/Gregory E. Montone/		Date (YYYY-MM-DD)	2013-08-14
First Name	Gregory E.	Last Name	Montone	Registration Number
				28141

Additional Signature may be generated within this form by selecting the Add button.

Add

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): OOKAWARA et al
Serial No.: (not yet assigned)
Filed: August 14, 2013
For: Display Device with Touch Panel

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR 1.97 & 1.98

Mail Stop: DD
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

August 14, 2013

Sir:

In the matter of the above-identified application, this information disclosure statement is being submitted with the following citation as specified in 37 CFR 1.97(d).

"A copy of any patent, publication or other information listed in an information disclosure statement is not required to be provided if it was previously cited by or submitted to the Office in a prior application, provided that the prior application is properly identified in the statement and relied upon for an earlier filing date under 35 U.S.C. 120."

Applicants are submitting herewith a copy of Form PTO-SB08A/SB08B which list documents cited in parent application Serial No. 12/649,414, filed December 30, 2009.

It is respectfully requested that this information disclosure statement be considered by the Examiner.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account No. 01-2135 (Case: 1497.50463CX1) and please credit any excess fees to such deposit account.

Respectfully submitted,

_____/Gregory E. Montone 
Gregory E. Montone
Registration No. 28141
ANTONELLI, TERRY, STOUT & KRAUS, LLP

GEM/jla
Attachment
(703) 312-6600

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 13/966,857	
APPLICATION AS FILED - PART I							
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	280
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	600
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	720
TOTAL CLAIMS (37 CFR 1.16(i))	5	minus 20 = *				x 80 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1	minus 3 = *				x 420 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1600
APPLICATION AS AMENDED - PART II							
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)
	Total (37 CFR 1.16(i))	*	Minus **	=	x =		x =
	Independent (37 CFR 1.16(h))	*	Minus ***	=	x =		x =
	Application Size Fee (37 CFR 1.16(s))						
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
			TOTAL ADD'L FEE			TOTAL ADD'L FEE	
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)
	Total (37 CFR 1.16(i))	*	Minus **	=	x =		x =
	Independent (37 CFR 1.16(h))	*	Minus ***	=	x =		x =
	Application Size Fee (37 CFR 1.16(s))						
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
			TOTAL ADD'L FEE			TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.							



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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P.O. Box 1450
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/966,857	08/14/2013	Takeshi Ookawara	1497.50463CX1

CONFIRMATION NO. 1196

20457
ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 NORTH SEVENTEENTH STREET
SUITE 1800
ARLINGTON, VA 22209-3873

NOTICE



Date Mailed: 09/03/2013

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):

Takeshi Ookawara
Noriharu Matsudate

Applicant may submit the inventor's oath or declaration at any time before the Notice of Allowance and Fee(s) Due, PTOL-85, is mailed.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
13/966,857	08/14/2013	2691	1740	1497.50463CX1	5	1

CONFIRMATION NO. 1196

20457

ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 NORTH SEVENTEENTH STREET
SUITE 1800
ARLINGTON, VA 22209-3873

FILING RECEIPT



OC000000063495752

Date Mailed: 09/03/2013

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Takeshi Ookawara, Mobara, JAPAN;
Noriharu Matsudate, Kujukuri, JAPAN;

Applicant(s)

Panasonic Liquid Crystal Display Co., Ltd., Hyogo-ken, JAPAN
Japan Display Inc., Chiba, JAPAN

Assignment For Published Patent Application

Japan Display Inc., Chiba, JAPAN
Panasonic Liquid Crystal Display Co., Ltd., Hyogo-ken, JAPAN

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 12/649,414 12/30/2009 PAT 8519969

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.)
JAPAN 2009-004874 01/13/2009

Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

Request to Retrieve - This application either claims priority to one or more applications filed in an intellectual property Office that participates in the Priority Document Exchange (PDX) program or contains a proper **Request to**

Retrieve Electronic Priority Application(s) (PTO/SB/38 or its equivalent). Consequently, the USPTO will attempt to electronically retrieve these priority documents.

If Required, Foreign Filing License Granted: 08/28/2013

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/966,857**

Projected Publication Date: 12/12/2013

Non-Publication Request: No

Early Publication Request: No

Title

Display Device With Touch Panel

Preliminary Class

345

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

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No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

日 本 国 特 許 庁
JAPAN PATENT OFFICE

別紙添付の書類に記載されている事項は下記の出願書類に記載されている事項と同一であることを証明する。

This is to certify that the annexed is a true copy of the following application as filed with this Office.

出 願 年 月 日 2 0 0 9 年 1 月 1 3 日
Date of Application:

出 願 番 号 特 願 2 0 0 9 - 0 0 4 8 7 4
Application Number:

パリ条約による外国への出願
に用いる優先権の主張の基礎
となる出願の国コードと出願
番号
The country code and number
of your priority application,
to be used for filing abroad
under the Paris Convention, is

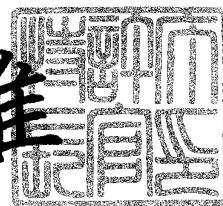
J P 2 0 0 9 - 0 0 4 8 7 4

出 願 人 株式会社ジャパンディスプレイ
Applicant(s): パナソニック液晶ディスプレイ株式会社

2 0 1 3 年 9 月 1 0 日

特許庁長官
Commissioner,
Japan Patent Office

羽藤 秀雄



【書類名】 特許願
【整理番号】 330850233
【提出日】 平成21年 1月13日
【あて先】 特許庁長官殿
【国際特許分類】 G06F 3/041
【発明者】
 【住所又は居所】 千葉県茂原市早野3 3 0 0 番地 株式会社日立ディスプレイズ内
 【氏名】 大河原 健
【発明者】
 【住所又は居所】 千葉県茂原市早野3 3 0 0 番地 株式会社日立ディスプレイズ内
 【氏名】 松舘 法治
【特許出願人】
 【識別番号】 502356528
 【氏名又は名称】 株式会社 日立ディスプレイズ
【代理人】
 【識別番号】 110000154
 【氏名又は名称】 特許業務法人はるか国際特許事務所
 【代表者】 岩本 康隆
 【電話番号】 03-5367-2790
【手数料の表示】
 【予納台帳番号】 185835
 【納付金額】 15,000円
【提出物件の目録】
 【物件名】 明細書 1
 【物件名】 特許請求の範囲 1
 【物件名】 要約書 1
 【物件名】 図面 1
 【包括委任状番号】 0807199

【書類名】明細書

【発明の名称】タッチパネルディスプレイ装置

【技術分野】

【0001】

本発明は、タッチパネルディスプレイ装置に関する。

【背景技術】

【0002】

従来のタッチパネルの主な方式として、光の変化を検出する方式と電気的な特性の変化を検出する方式がある。このうち、光の変化を検出する方式は検出精度が安定しないという問題があった。

【0003】

また、電気的な特性の変化を検出する方式として、従来、抵抗膜方式と容量方式があった。

【0004】

図20に従来の容量方式を示す。ガラス基板GSUBの内面に検出領域全面を覆う透明電極TLINEを有するもので、ガラス基板GSUBの外側から所望の位置を指で触れた場合に、その指と透明電極との容量を検出することにより、指の置かれた座標を認識するものである。

【0005】

図21に従来の抵抗膜方式を示す。検出領域全面を覆う透明電極TLINEをガラス基板GSUB上に成膜し、もう片側は光透過性のある樹脂RESINにやはり透明電極TLINEを成膜し、ガラス基板GSUB上の透明電極と向かい合わせるようにして貼り合わせた構造を持つものである。それぞれの透明電極TLINEがショートしないように透明なスペーサSPACERを面内に設置して、一定の間隔（数～数10μm）を保持する構造である。

【0006】

この図21の抵抗膜方式の以前には、特許文献1のように、透明電極をストライプ状に加工し、そのストライプ状の電極を交差させて、マトリクス状に交点を配置する方式が存在していた。

【先行技術文献】

【特許文献】

【0007】

【特許文献1】特開2002-342014号公報

【発明の概要】

【発明が解決しようとする課題】

【0008】

特許文献1の方法は、ストライプ状の透明電極を用いているので、検出精度を向上させようとする場合、ストライプ状の透明電極の線幅を細くせざるを得ない。しかし、線幅の狭い透明電極は抵抗値が高く、所望の検出精度を保持することができなかった。また、厚く形成した場合エッチングによるテーバを考慮する必要があったので、間隙を小さくすることができなかった。

【0009】

そこで、前述の抵抗膜方式が登場するのである。この方式は、透明電極が高抵抗であることから、その透明電極に印加する電圧の電位差を利用して、入力点すなわち上下の透明電極の接触位置を1次元的に検出し、それをX、Y軸と2回の電圧印荷～電位差検出を行う事で、2次元座標を算出する。

【0010】

しかし、以下の問題がある。A:この駆動原理は透明電極が金属酸化物であることによる、高抵抗特性を応用したものであるため、低抵抗の膜であった場合、電圧降下が少なくなり検出が出来なくなる。B:透明電極が高抵抗であることから大型化が困難となり、実用的なサイズの限界は17インチ（200×300mm程度）と考えられている。C:2箇所以上の入力点を検出することは検出周波数を2倍以上にする必要があり、検出精度が低くな

る。D:透明電極のパターンニングや成膜にコストがかかる。E:透明電極の光学的透過率の問題から透過率が75～80%前後である。F:タッチパネルは通常一部の領域が集中的に利用され、特に、タッチペンや指等による入力の場合、それらの外力が入力座標に集中的にかかる。この外力により入力座標を中心として透明電極が曲がるため、入力座標近傍の透明電極が損傷しやすくなる。G:一般的に透明電極は金属酸化物である為、電極自体の抵抗上昇を伴う劣化が不可避であることから寿命信頼性に問題がある。H:電圧降下をアナログ検出する必要があるため、回路のコストが高い。I:透明電極と回路を接続するフレキシブルケーブルのコストが高い。J:透明電極に電流が流れることによって抵抗が上昇する。K:透明電極は透明でないため、着色し、表示パネルの色範囲がずれてしまう。

【0011】

これらの課題を踏まえて、本願の出願人は、新たな検出構造を採用したタッチパネルを提案した(特願2007-149884号)。ただし、先願発明によれば、タッチパネルに複数の配線が形成されているので、ペンを操作面上で滑らせると凸凹した感触があった。そこで、本願発明の発明者は改良を行い、さらに優れた感触が得られるタッチパネルディスプレイ装置を創作した。

【0012】

本発明は、優れた感触が得られるタッチパネルディスプレイ装置を提供することにある。

【課題を解決するための手段】

【0013】

(1) 本発明に係るタッチパネルディスプレイ装置は、第1基板と、前記第1基板と間隔をあけて対向する第2基板と、前記第1基板の、前記第2基板と対向する面に形成された複数の配線ラインからなる第1電極と、前記第2基板の、前記第1基板と対向する面に形成された第2電極と、を有するタッチパネルと、前記第2基板の、前記第1基板とは反対側に取り付けられた表示パネルと、前記第1基板の、前記第2基板とは反対側に貼り付けられた樹脂フィルムと、を含むことを特徴とする。本発明によれば、タッチパネルに樹脂フィルムが貼り付けられているので、第1電極による凹凸が吸収されて、優れた感触を得ることができる。

【0014】

(2) (1)に記載されたタッチパネルディスプレイ装置において、前記表示パネルは、偏光板を除く液晶表示パネルであり、前記表示パネルの、前記第2基板とは反対の面に貼り付けられた第1偏光板をさらに有し、前記樹脂フィルムは、第2偏光板であることを特徴としてもよい。

【0015】

(3) (1)に記載されたタッチパネルディスプレイ装置において、前記樹脂フィルムは、円偏光板であることを特徴としてもよい。

【0016】

(4) (1)から(3)のいずれか1項に記載されたタッチパネルディスプレイ装置において、前記樹脂フィルムと前記タッチパネルの間に、前記樹脂フィルムよりも柔らかいクッション層をさらに有することを特徴としてもよい。

【0017】

(5) (1)から(3)のいずれか1項に記載されたタッチパネルディスプレイ装置において、前記樹脂フィルムと前記タッチパネルの間にエアクッション層をさらに有することを特徴としてもよい。

【0018】

(6) (1)から(3)のいずれか1項に記載されたタッチパネルディスプレイ装置において、前記表示パネルと前記タッチパネルの間に、前記樹脂フィルムよりも柔らかいクッション層をさらに有することを特徴としてもよい。

【0019】

(7) (1)から(3)のいずれか1項に記載されたタッチパネルディスプレイ装置に

において、前記表示パネルと前記タッチパネルの間にエアクッション層をさらに有すること
を特徴としてもよい。

【図面の簡単な説明】

【0020】

【図1】本発明の実施の形態に係るタッチパネルディスプレイ装置の概略を示す平面
図である。

【図2】本発明の実施の形態に係るタッチパネルディスプレイ装置の概略を示す断面
図である。

【図3】本発明の実施の形態に係るタッチパネルディスプレイ装置の変形例1の概略
を示す断面図である。

【図4】本発明の実施の形態に係るタッチパネルディスプレイ装置の変形例2の概略
を示す断面図である。

【図5】本発明の実施の形態に係るタッチパネルディスプレイ装置の変形例3の概略
を示す平面図である。

【図6】変形例3に係るタッチパネルディスプレイ装置の概略を示す断面図である。
【図7】本発明の実施の形態に係るタッチパネルディスプレイ装置の変形例4の概略
を示す断面図である。

【図8】本発明の実施の形態に係るタッチパネルディスプレイ装置の変形例5の概略
を示す断面図である。

【図9】タッチパネルの平面模式図である。

【図10】タッチパネルの断面図である。
【図11】図9のAA領域における第2基板SUB2の拡大断面図である。

【図12】本実施例のタッチパネルの斜視図である。
【図13】本実施例のタッチパネルの斜視図である。

【図14】タッチパネルの平面模式図である。
【図15】タッチパネルの平面模式図である。

【図16】タッチパネルを構成する基板の断面図である。
【図17】タッチパネルを構成する基板の断面図である。

【図18】タッチパネルを構成する基板の断面図である。
【図19】タッチパネルを構成する基板の断面図である。

【図20】従来の容量方式の原理図である。
【図21】従来の抵抗膜方式の原理図である。

【発明を実施するための形態】

【0021】

以下、本発明の実施の形態について、図面を参照して説明する。

【0022】

図1は、本発明の実施の形態に係るタッチパネルディスプレイ装置の概略を示す平面図
である。図2は、本発明の実施の形態に係るタッチパネルディスプレイ装置の概略を示す
断面図である。

【0023】

タッチパネルディスプレイ装置は、タッチパネル10を有する。タッチパネル10は、
第1基板12と、第1基板12から間隔をあけて対向する第2基板14と、を有する。第
1基板12の、第2基板14と対向する面には、複数の配線ラインからなる第1電極16
が形成されている（図2では省略）。第2基板14の、第1基板12と対向する面には第
2電極18が形成されている（図2では省略）。第2電極18も複数の配線ラインからな
る。第1基板12及び第2基板14の間にはスペーサ20が配置されており、第1電極1
6及び第2電極18が接触しないようになっている。スペーサ20はスクリーン印刷で形
成することができる。

【0024】

第1基板12の外表面に指又はペンでタッチすると、第1基板12が窪んで第1電極1

6及び第2電極18が接触して電氣的に導通する。タッチパネル10の詳細は、特願2007-149884号の明細書及び図面に記載されており、その内容は後述する。

【0025】

タッチパネルディスプレイ装置は、表示パネル22を有する。図2に示す表示パネル22は、一対の基板の間に図示しない液晶が挟まれてなる液晶表示パネル（偏光板を除く）である。表示パネル22は、タッチパネル10の第2基板14の、第1基板12とは反対側に取り付けられている。表示パネル22の、第2基板14とは反対の面には第1偏光板24が貼り付けられている。

【0026】

第1基板12の、第2基板14とは反対側には樹脂フィルム26が貼り付けられている。樹脂フィルム26は、第2偏光板（直線偏光板）である。したがって、第1偏光板24と、第2偏光板としての樹脂フィルム26との間に、表示パネル22としての液晶表示パネル（偏光板を除く）が配置されている。タッチパネル10を光が通過するとき第1電極16及び第2電極18によって光の複屈折が生じて偏光面が揃わなくなっても、第2偏光板としての樹脂フィルム26がタッチパネル10の外側に配置されているので、タッチパネル10を通過してから光の偏光面を揃えることができ、樹脂フィルム26を通して液晶表示が可能になっている。

【0027】

本実施の形態に係るタッチパネル10によれば、第1電極16が複数の配線ラインからなるので、第1基板12の外表面に、直接、指又はペンをタッチさせながら滑らせると、第1電極16又は第2電極18による凸と、隣同士の配線ラインの間の凹とにより、でこぼこした感触になる。しかし、タッチパネル10に樹脂フィルム26が貼り付けられているので、第1電極16（又はこれに加えて第2電極18）による凹凸が吸収されて、優れた感触を得ることができる。

【0028】

図3は、本発明の実施の形態に係るタッチパネルディスプレイ装置の変形例1の概略を示す断面図である。変形例1では、樹脂フィルム26とタッチパネル10（第1基板12）の間にクッション層28が配置されている。クッション層28は、樹脂フィルム26よりも柔らかく、例えばシリコンなどから形成されている。クッション層28は透明である。これによれば、クッション層28により、さらに滑らかな書き味が得られる。

【0029】

図4は、本発明の実施の形態に係るタッチパネルディスプレイ装置の変形例2の概略を示す断面図である。変形例2では、タッチパネル10（第1基板12）と樹脂フィルム26の間にエアクッション層30（つまり空間）が形成されている。第1基板12と樹脂フィルム26は、シール材32を介して間隔をあけて配置され、エアクッション層30は気密に封止されている。シール材32がクッション性を有していてもよい。これによれば、エアクッション層30により、さらに滑らかな書き味が得られる。

【0030】

図5は、本発明の実施の形態に係るタッチパネルディスプレイ装置の変形例3の概略を示す平面図である。図6は、変形例3に係るタッチパネルディスプレイ装置の概略を示す断面図である。図6に示す表示パネル122は、有機エレクトロルミネッセンス表示パネル（以下、「有機EL表示パネル」という）であるが、電界放出ディスプレイパネルであってもよい。表示パネル122の表示面にタッチパネル10が貼り付けられ、タッチパネル10に樹脂フィルム126が貼り付けられている。樹脂フィルム126は、円偏光板であり、光の反射を防止して視認性を高めている。

【0031】

図7は、本発明の実施の形態に係るタッチパネルディスプレイ装置の変形例4の概略を示す断面図である。図7に示す表示パネル122は、有機EL表示パネルであるが、電界放出ディスプレイパネルであってもよい。変形例4では、表示パネル122とタッチパネル10（第2基板14）の間にクッション層28が配置されている。クッション層28は

、樹脂フィルム126よりも柔らかい。クッション層28は透明である。これによれば、タッチパネル10の下のカッション層28によって凸凹感がさらに和らげられて、滑らかな書き味が得られる。

【0032】

なお、図7に示す表示パネル122として液晶表示パネルを使用することも可能である。その場合、有機EL表示パネルの代わりに、クッション層28とは反対側に第1偏光板24（図3参照）が貼り付けられた液晶表示パネルを配置し、樹脂フィルム126として第2偏光板を使用する。

【0033】

図8は、本発明の実施の形態に係るタッチパネルディスプレイ装置の変形例5の概略を示す断面図である。図8に示す表示パネル122は、有機EL表示パネルであるが、電界放出ディスプレイパネルであってもよい。変形例5では、タッチパネル10（第2基板14）と表示パネル122の間にエアクッション層30（つまり空間）が形成されている。第2基板14と表示パネル122は、シール材32を介して間隔をあけて配置され、エアクッション層30は気密に封止されている。シール材32がクッション性を有していてもよい。これによれば、タッチパネル10の下のエアクッション層30によって凸凹感がさらに和らげられて、滑らかな書き味が得られる。

【0034】

なお、図8に示す表示パネル122として液晶表示パネルを使用することも可能である。その場合、有機EL表示パネルの代わりに、エアクッション層30とは反対側に第1偏光板24（図4参照）が貼り付けられた液晶表示パネルを配置し、樹脂フィルム126として第2偏光板を使用する。

【0035】

[タッチパネル]

上述したタッチパネルディスプレイ装置には、特願2007-149884号の明細書及び図面に記載されたタッチパネルを使用することができ、以下、その内容を説明する。

【0036】

[配線レイアウトの態様1]

図9に本実施例のタッチパネルの平面模式図を示す。本実施例のタッチパネルは、PETで構成された樹脂フィルムである第1基板SUB1及び第2基板SUB2、第1周辺回路SC1、第2周辺回路SC2、電源、検出信号出力端子を備えている。

【0037】

この第1基板SUB1と第2基板SUB2は、冷間圧延加工により10 μ m以下にされた銅箔をPETフィルムと化粧銅板技術により貼り合わせられた後、高温かつ高圧でエッチング液を噴出するエッチング技術によりテーパ角が80～90度となるように加工された金属配線（第1電極及び第2電極）がストライプ状に加工されたフレキシブル配線基板である。この第1基板SUB1と第2基板SUB2のそれぞれの金属配線が対向する向きで、それぞれの金属配線の延伸方向が交差するように配置されている。

【0038】

第1周辺回路SC1は、第1基板に接続され、金属配線を線順次を選択して電源から電圧を入力する。第2周辺回路SC2は、第2基板に接続され、金属配線を線順次を選択して電圧を検出する。

【0039】

図10に本実施例のタッチパネルの断面図を示す。タッチパネルは、第1基板SUB1と、第2基板SUB2と、スペーサSPACERとを備えている。第2基板は、スペーサSPACERを介して図示していないシール剤で第1基板SUB1に固定されている。

【0040】

図11に、図9のAA領域における第2基板SUB2の拡大断面図を示す。前述の通り、ポリエチレンテレフタレートPETの上に金属配線MLINEを配置する。

【0041】

このように、本発明の実施形態は、金属配線を備えた樹脂フィルムをスペーサを介して張り合わせることににより、基本的な認識構造を実現できるので、高速な多点入力可能で耐久性の高いタッチパネルを安価に製造することができる。また、金属配線の幅を金属配線の配線ピッチの50%よりも小さくして、明るい表示を実現する。

【0042】

また、間隙にスペーサを備えることで間隙の均一な保持が可能となり、さらに、スペーサの基板方向から見た平面形状の最大幅を、金属配線のピッチよりも大きくしているので、樹脂フィルムの基板の変形による対向している金属配線間のショートを防ぐことができ、タッチパネルの誤認識を抑制することができる。また、スペーサの基板方向から見た平面形状の最大幅を金属配線のピッチよりも大きくしているので、短絡の可能性を低減できている。また、ITOとは異なり金属配線は光を通さないため、金属配線の幅を金属配線の配線ピッチの50%未満として、透過率が低下しないようになっている。また、配線幅を $13 \sim 20 \mu\text{m}$ にすると、安価なフォトマスクが利用可能になる。この金属配線は、不透明な金属膜で、アルミニウムAlの他、炭素Cや銅Cu、ステンレスSUS、鉄Feといった非鉄金属や鉄を用いることができる。また、第1基板SUB1や第2基板SUBの樹脂としては、PETのほかにTAC（トリアセチルセルロース）を適用することもできる。これらのように、複屈折が少ない膜であれば、他の材料も用いることができる。

【0043】

本発明の実施形態により、金属による微細配線パターンは 300 lpi (line per inch) の精細度を達成することが十分に可能であり、従来例では 10 ppi (point per inch) 程度であった分解能を10倍以上に向上させることが可能となる。また、この微細金属配線パターンの幅は $10 \mu\text{m}$ 、厚さも $10 \mu\text{m}$ 程度で十分に製作可能である為、解像度を 100 lpi 程度に設計することによって、透過率は現状の抵抗膜方式のタッチパネルよりも向上させることが可能となる。

【0044】

なお、コスト的な問題はあるが、金属配線はエッチングだけでなく、析出、メッキ法等で製作可能である。

【0045】

さらに、本発明の実施形態を用いることによる効果を述べると、次の通りである。(1) アドレッシングされた金属配線を用いる事から、同時に複数点の検出が可能となる。(2) 上記により、デジタル回路により検出可能になる為、コスト低減が可能となる。(3) 透明電極のパターンニングが不要となる為、コスト低減が可能となる。(4) 更に、金属配線とフレキシブルケーブルのパターンを同時に形成することが可能となる為、コスト低減ならびに信頼性が向上する。(5) 金属配線が低抵抗である為、40インチサイズ以上(対角1M以上)が可能となり、今までタッチパネルの搭載が困難であった領域までアプリケーションが拡張する。(6) 金属配線は 300 lpi 以上の精細度が十分に可能となる為、現状の分解能が 10 ppi 程度であることに対して、10倍以上の高解像化が可能となる。(7) 上記の高解像化と同時複数点検出の機能を用いて、タッチパネルへの入力物や入力方法、例えば、スタイラスと指の差を検出点数の大小の差により、区別する事が可能となる。(8) 上記、金属配線を黒色化することにより、タッチパネルを搭載する液晶等のディスプレイのコントラストを増加することが可能となる。(9) 座標検出が金属配線(厚さが $10 \mu\text{m}$)である為、従来の透明電極(厚さ数 100 nm)に比較して、検出回数等の寿命信頼性が10倍以上に向上する。(10) 金属配線が低抵抗であり、デジタル検出が可能である為、従来の抵抗膜方式のアナログ検出機構に比較して、約100倍以上の高速、高精度な検出速度を得る事が可能である。

【0046】

〔配線レイアウトの態様2〕

図12に、本実施例のタッチパネルの斜視図を示す。この実施例は対向する検出用の配線の構造を変更した、態様1の変形例である。図9との相違点は、第1基板SUB1上に配置する配線をITOで構成した透明電極とし、さらに、検出領域全面をそのITOで覆っている点

である。この態様を用いると、信頼性並びに検出速度の向上、並びに簡易的な多点検出機構の実現が可能である。

【0047】

〔配線レイアウトの態様3〕

図13に、本実施例のタッチパネルの斜視図を示す。この実施例は対向する検出用の配線の構造を変更した態様1の変形例である。図12との相違点は、第2基板SUB2上に配置する配線がメッシュ状になっている点である。金属配線パターンをメッシュ状（十字状）にすることにより、抵抗膜の置き換えとして、タッチパネルを形成することが可能となり、主に検出速度並びに信頼性の向上に寄与することができる。更に、2次元にパターンニングすることによって、従来の透明電極方式と組み合わせた場合においても、多点検出機構を高速、高精度に実現することが可能となる。更に、微細金属パターン部に透明電極をオーバーコートする方式もコストがかかる方法であるが、大型化対応の為に効果がある。

【0048】

〔配線レイアウトの態様4〕

図14に、タッチパネルの平面模式図を示す。図9との相違点は、複数の金属配線MLINEの電圧を同時に検出するために、複数の金属配線MLINEを纏める端子PADを備え、その端子毎に検出信号を出力している点である。精細度の高い座標検出が不要な場合には、複数の金属配線MLINEを纏めると、認識率が高まる。この態様は、（配線レイアウトの態様1）乃至（配線レイアウトの態様2）のストライプ状の金属配線に適用できる。

【0049】

〔配線レイアウトの態様5〕

図15に、本実施例のタッチパネルの平面模式図を示す。図9との相違点は、検出領域外で配線ピッチを狭めつつ、樹脂上を外部端子まで延ばしたものである。つまり、別基板ではなく、金属配線MLINEを形成したベースフィルム上に外部端子と外部端子までの配線MLINE-Fを形成したものである。この態様は、（配線レイアウトの態様1）乃至（配線レイアウトの態様4）のストライプ状の金属配線に適用できる。このように、配線レイアウトの態様1乃至4を採用することにより、金属パターンと回路へ接続する為のフレキシブルケーブルパターンを同時に形成することが可能となる。タッチパネル部とフレキシブルケーブルが一体の連続した樹脂上に形成されることにより、部品点数の削減ならびに接続信頼性の向上、コスト低減が可能となる。

【0050】

〔配線レイアウトの態様6〕

図16に、タッチパネルを構成する基板の断面図を示す。図11との相違点は、金属配線MLINEと同じパターンのストライプ状の透明配線TLINEを金属配線MLINEの下に配置している点である。この態様は、（配線レイアウトの態様1）～（配線レイアウトの態様5）のストライプ状の金属配線に適用できる。

【0051】

〔配線レイアウトの態様7〕

図17に、タッチパネルを構成する基板の断面図を示す。図11との相違点は、金属配線MLINEの下に検出領域全面を覆う透明配線（電極）TLINEを配置している点である。この態様は、（配線レイアウトの態様1）～（配線レイアウトの態様5）のストライプ状の金属配線に適用できる。

【0052】

〔配線レイアウトの態様8〕

図18に、タッチパネルを構成する基板の断面図を示す。図11との相違点は、金属配線MLINEの上に検出領域全面を覆う透明配線（電極）TLINEを配置している点である。この態様は、（配線レイアウトの態様1）～（配線レイアウトの態様5）のストライプ状の金属配線に適用できる。

【0053】

〔配線レイアウトの態様9〕

図19に、タッチパネルを構成する基板の断面図を示す。図11との相違点は、金属配線MLINEの下に検出領域全面を覆う SiO_2 の薄膜で構成された内面反射防止膜REFを配置している点である。この態様は、（配線レイアウトの態様1）～（配線レイアウトの態様5）のストライプ状の金属配線に適用できる。また、従来のタッチパネルでは、透明電極をもつ為にコスト高であった、本発明の実施形態によれば、内面反射防止膜も安価に製造可能であり、表示品位とコストの両立が可能となる。

【0054】

本発明は、上述した実施の形態に限定されるものではなく種々の変形が可能である。例えば、実施の形態で説明した構成は、実質的に同一の構成、同一の作用効果を奏する構成又は同一の目的を達成することができる構成で置き換えることができる。

【符号の説明】

【0055】

10 タッチパネル、12 第1基板、14 第2基板、16 第1電極、18 第2電極、20 スペース、22 表示パネル、24 第1偏光板、26 樹脂フィルム、28 クッション層、30 エアクッション層、32 シール材。

【書類名】特許請求の範囲

【請求項 1】

第 1 基板と、前記第 1 基板と間隔をあけて対向する第 2 基板と、前記第 1 基板の、前記第 2 基板と対向する面に形成された複数の配線ラインからなる第 1 電極と、前記第 2 基板の、前記第 1 基板と対向する面に形成された第 2 電極と、を有するタッチパネルと、
前記第 2 基板の、前記第 1 基板とは反対側に取り付けられた表示パネルと、
前記第 1 基板の、前記第 2 基板とは反対側に貼り付けられた樹脂フィルムと、
を含むことを特徴とするタッチパネルディスプレイ装置。

【請求項 2】

請求項 1 に記載されたタッチパネルディスプレイ装置において、
前記表示パネルは、偏光板を除く液晶表示パネルであり、
前記表示パネルの、前記第 2 基板とは反対の面に貼り付けられた第 1 偏光板をさらに有し、
前記樹脂フィルムは、第 2 偏光板であることを特徴とするタッチパネルディスプレイ装置。

【請求項 3】

請求項 1 に記載されたタッチパネルディスプレイ装置において、
前記樹脂フィルムは、円偏光板であることを特徴とするタッチパネルディスプレイ装置。

【請求項 4】

請求項 1 から 3 のいずれか 1 項に記載されたタッチパネルディスプレイ装置において、
前記樹脂フィルムと前記タッチパネルの間に、前記樹脂フィルムよりも柔らかいクッション層をさらに有することを特徴とするタッチパネルディスプレイ装置。

【請求項 5】

請求項 1 から 3 のいずれか 1 項に記載されたタッチパネルディスプレイ装置において、
前記樹脂フィルムと前記タッチパネルの間にエアクッション層をさらに有することを特徴とするタッチパネルディスプレイ装置。

【請求項 6】

請求項 1 から 3 のいずれか 1 項に記載されたタッチパネルディスプレイ装置において、
前記表示パネルと前記タッチパネルの間に、前記樹脂フィルムよりも柔らかいクッション層をさらに有することを特徴とするタッチパネルディスプレイ装置。

【請求項 7】

請求項 1 から 3 のいずれか 1 項に記載されたタッチパネルディスプレイ装置において、
前記表示パネルと前記タッチパネルの間にエアクッション層をさらに有することを特徴とするタッチパネルディスプレイ装置。

【書類名】 要約書

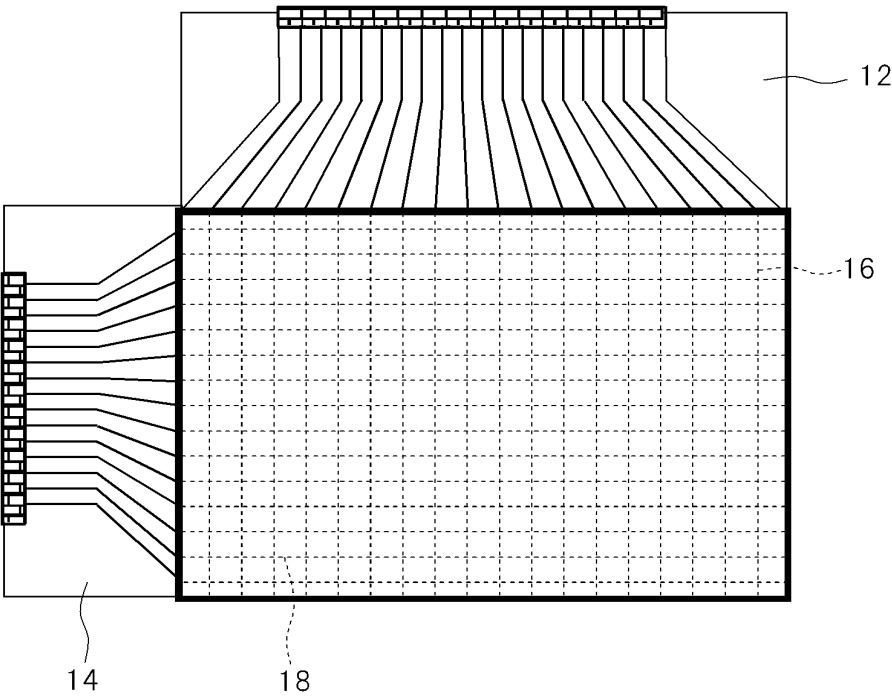
【要約】

【課題】 本発明は、優れた感触が得られるタッチパネルディスプレイ装置を提供することにある。

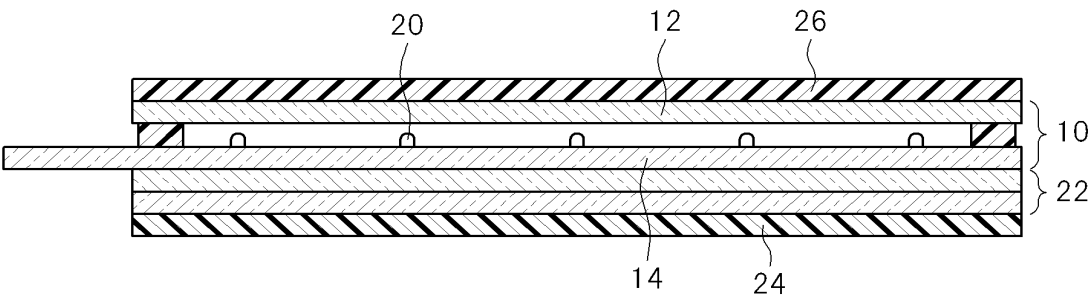
【解決手段】 タッチパネルディスプレイ装置は、第1基板12と、第1基板12と間隔をあけて対向する第2基板14と、第1基板12の、第2基板14と対向する面に形成された複数の配線ラインからなる第1電極16と、第2基板14の、第1基板12と対向する面に形成された第2電極18と、を有するタッチパネル10と、第2基板14の、第1基板12とは反対側に取り付けられた表示パネル22と、第1基板12の、第2基板14とは反対側に貼り付けられた樹脂フィルム26と、を含む。

【選択図】 図2

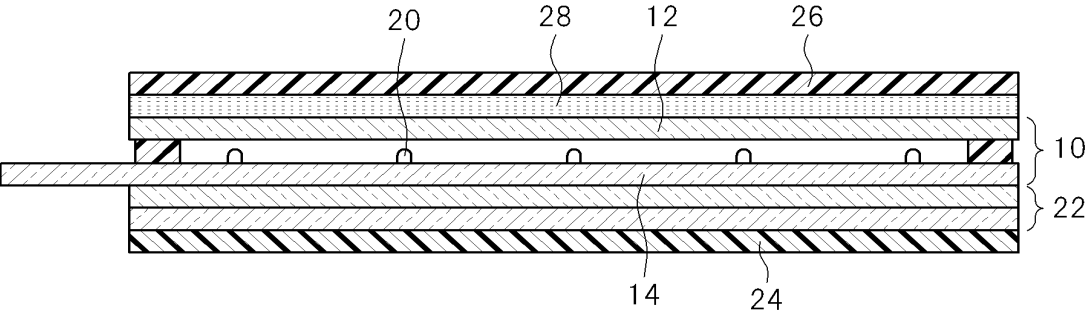
【書類名】 図面
【図 1】



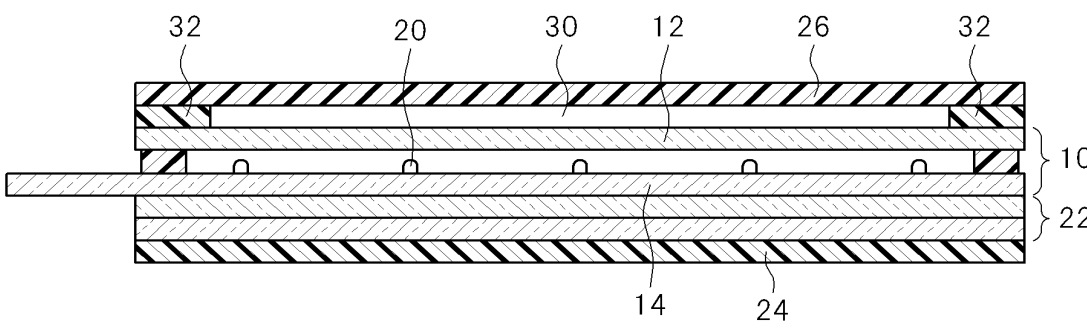
【図 2】



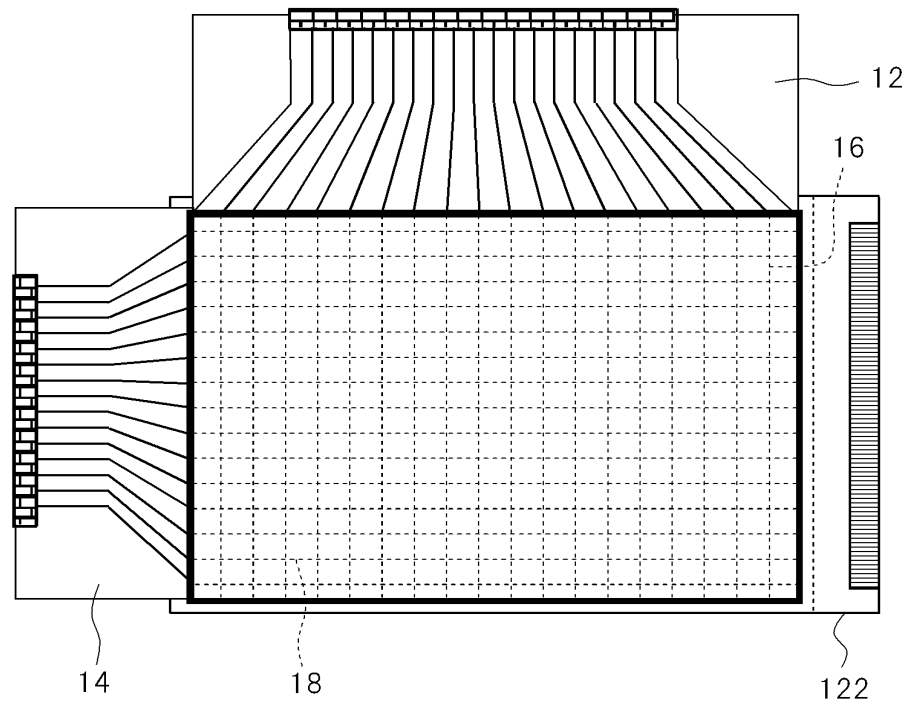
【図 3】



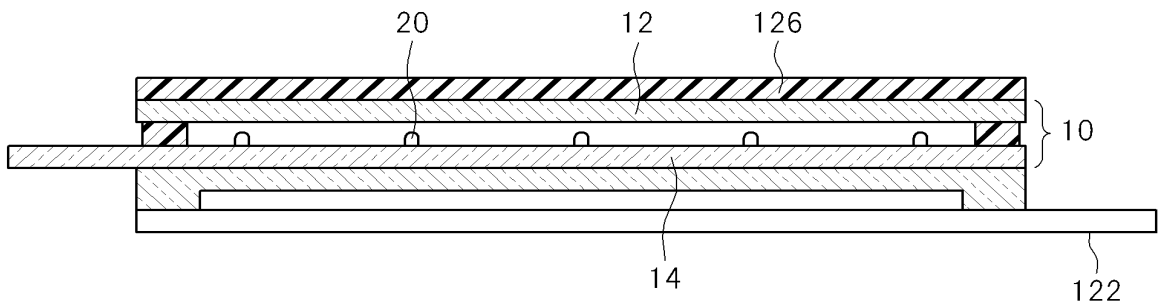
【図 4】



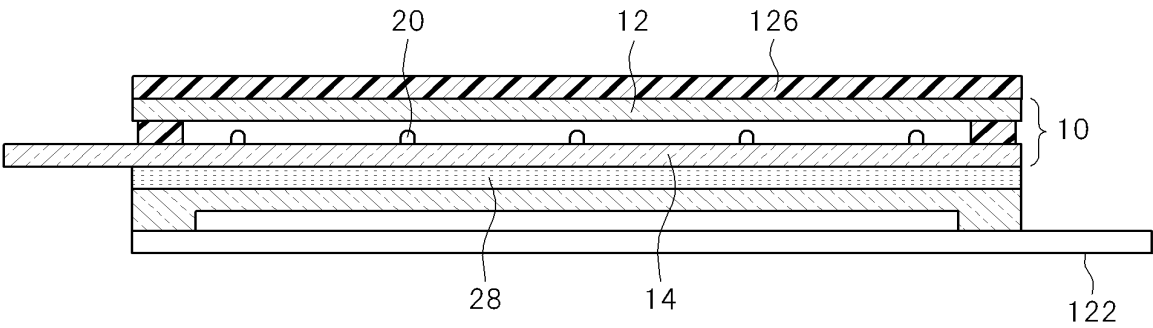
【図 5】



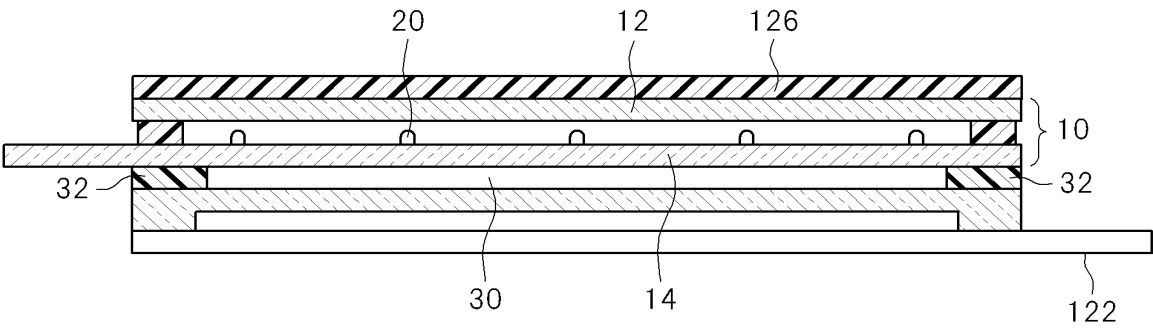
【図 6】



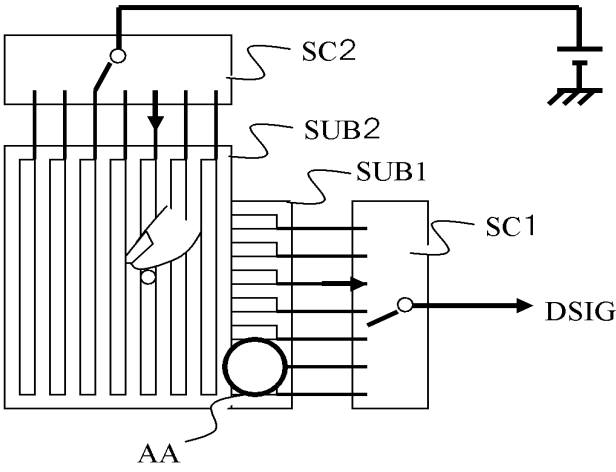
【图 7】



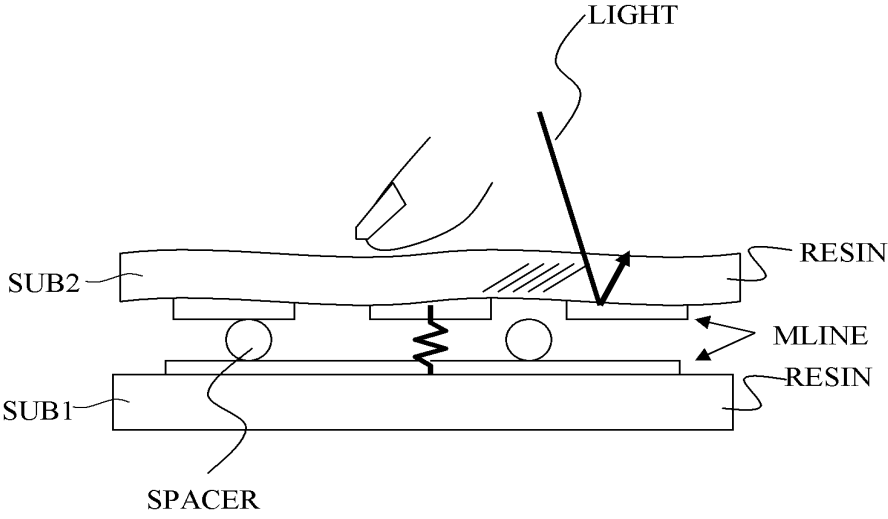
【图 8】



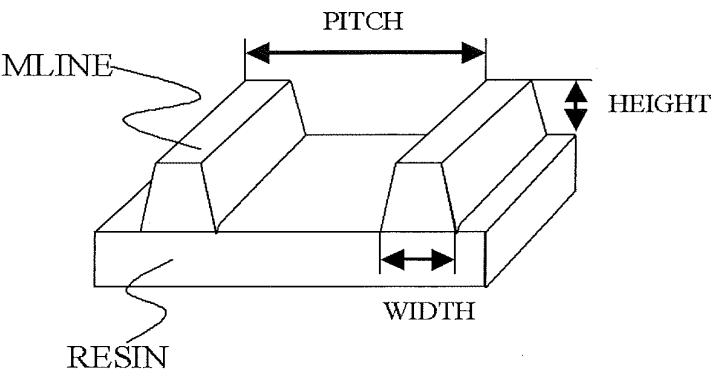
【図 9】



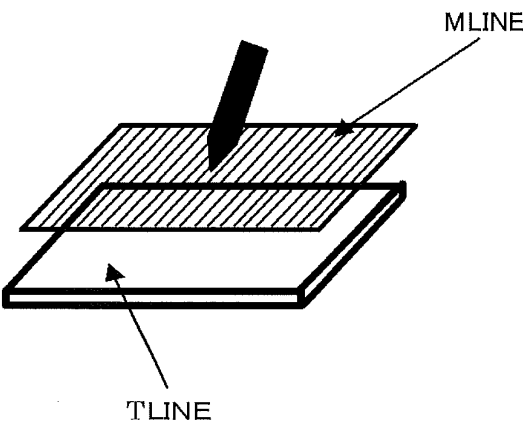
【図 10】



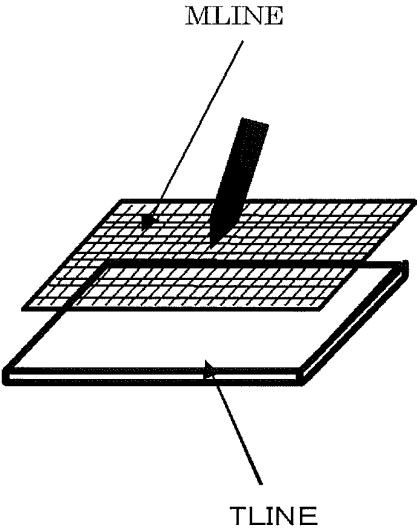
【図 1 1】



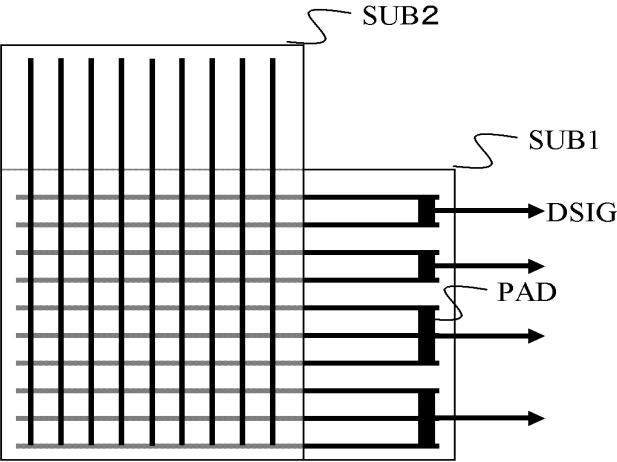
【図 1 2】



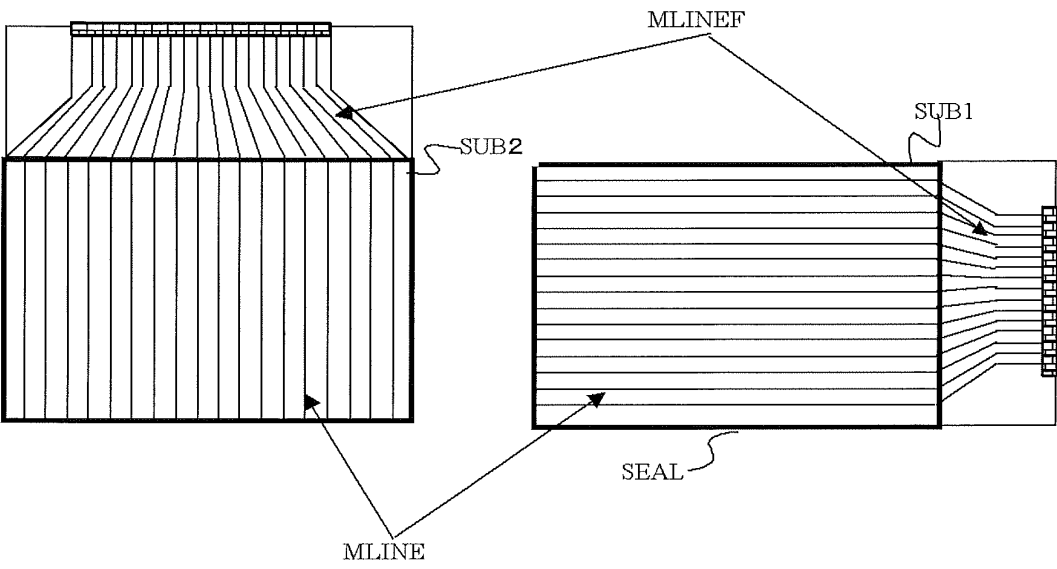
【图 1 3】



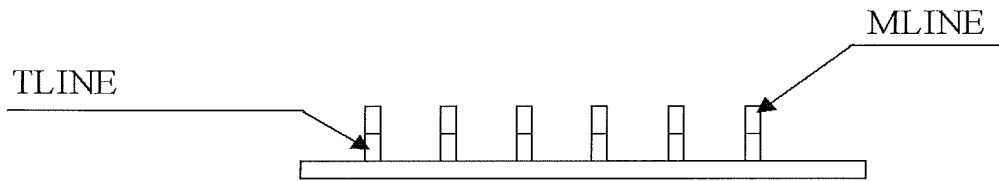
【图 1 4】



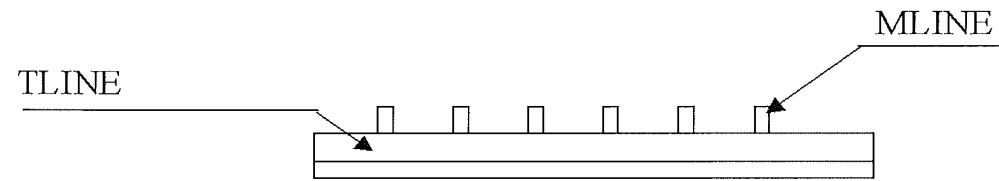
【図 1 5】



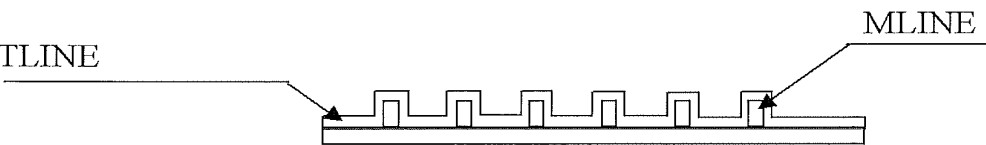
【図 1 6】



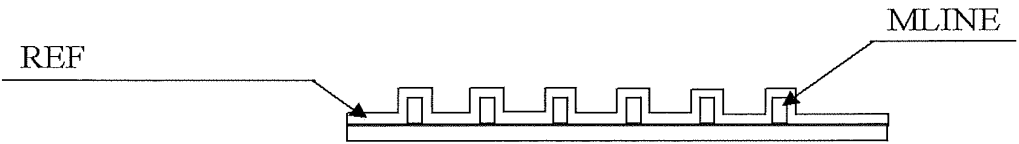
【図 1 7】



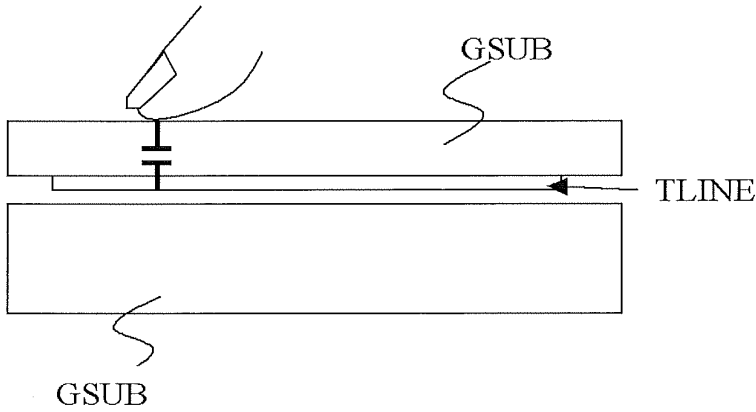
【図 1 8】



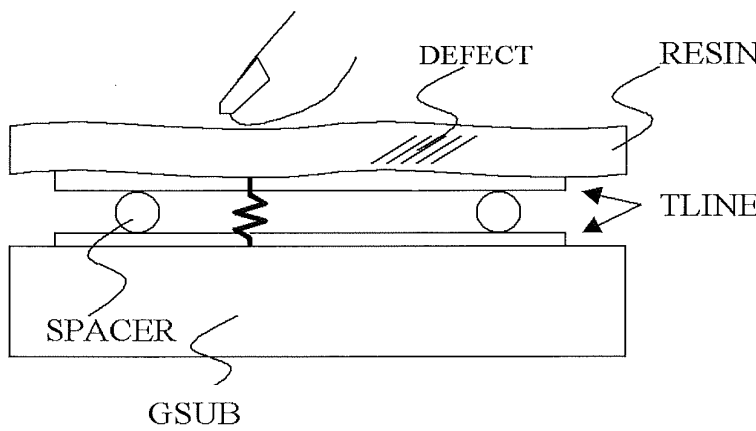
【図 19】



【図 20】



【図 21】



【書類名】 出願人名義変更届（一般承継）
【整理番号】 330850233
【あて先】 特許庁長官殿
【事件の表示】
【出願番号】 特願2009- 4874
【承継人】
【識別番号】 506087819
【氏名又は名称】 パナソニック液晶ディスプレイ株式会社
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【電話番号】 03-5367-2790
【提出物件の目録】
【物件名】 株式会社日立ディスプレイズの会社分割を証明する書面 1
【援用の表示】 平成23年1月12日付提出の特願2008-133913の名義変更届に添付のもの（閉鎖事項一部証明書）を援用する。
【物件名】 パナソニック液晶ディスプレイ株式会社が承継人であることを証明する書面 1
【援用の表示】 平成23年1月12日付提出の特願2008-133913の名義変更届に添付のもの（履歴事項一部証明書）を援用する。
【物件名】 株式会社日立ディスプレイズによる株式会社IPSアルファ支援会社への権利の承継を証明する書面 1
【援用の表示】 平成22年11月5日付提出の特許第3090480号外98件に係る会社分割による一部移転登録申請書（1）に添付のもの（会社分割承継証明書）を援用する。
【包括委任状番号】 0807200

出願人履歴

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名称変更

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株式会社ジャパンディスプレイイースト

5 0 2 3 5 6 5 2 8

20130426

名称変更

東京都港区西新橋三丁目7 番1 号

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20060315

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5 0 6 0 8 7 8 1 9

20101004

名称変更

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パナソニック液晶ディスプレイ株式会社

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: OOKAWARA et al
Serial No.: 13/966,857
Filed: August 14, 2013
For: Display Device with Touch Panel
Art Unit: 2691
Examiner:
Conf. No.: 1196

REPLY TO INFORMATIONAL NOTICE TO APPLICANT

Mail Stop: Pre-Exam
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Sir:

September 27, 2013

In response to the Informational Notice to Applicant, submitted herewith are executed declarations for each inventor.

It is respectfully requested that any shortage in the fee be charged to the deposit account of Antonelli, Terry, Stout & Kraus, LLP, Deposit Account No. 01-2135 (Case: 1497.50463CX1).

Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS, LLP

/Melvin Kraus/ *MK*
Melvin Kraus
Registration No. 22,466

MK/jla
(703) 312-6600
Attachment

**DECLARATION (37 CFR § 1.63) FOR UTILITY OR DESIGN APPLICATION
ACCOMPANYING AN APPLICATION DATA SHEET (37 CFR § 1.76)**

Title of Invention	DISPLAY DEVICE WITH TOUCH PANEL
<p>As the below named inventor, I hereby declare the following:</p> <p>This declaration is directed to:</p> <p>☐ The attached application,</p> <p>OR</p> <p>☒ United States application or PCT international application number <u>13/966,857</u> filed on <u>August 14, 2013</u>.</p> <p>The above-identified application was made by or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than (5) years, or both.</p> <p>I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56, as follows:</p> <p>§ 1.56 Duty to disclose information material to patentability.</p> <p>(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application.</p> <p>There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98.</p> <p>However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:</p> <p>(1) Prior art cited in search reports of a foreign patent office in a counterpart application, and</p> <p>(2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.</p>	

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
- (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) Each inventor named in the application;
- (2) Each attorney or agent who prepares or prosecutes the application; and

(3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, the applicant, an assignee, or anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

(e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

LEGAL NAME OF INVENTOR

Inventor: Takeshi OOKAWARA

Date (Optional) : _____

Signature: Takeshi OOKAWARA

Note: An Application Data Sheet (PTO/SB/14 or equivalent), including a naming of the entire inventive entity, must accompany this form. Use an additional copy of the present form for each additional inventor.

**DECLARATION (37 CFR § 1.63) FOR UTILITY OR DESIGN APPLICATION
ACCOMPANYING AN APPLICATION DATA SHEET (37 CFR § 1.76)**

Title of Invention	DISPLAY DEVICE WITH TOUCH PANEL
-----------------------	---------------------------------

As the below named inventor, I hereby declare the following:

This declaration is directed to:

☐ The attached application,

OR

☒ United States application or PCT international application
number 13/966,857 filed on August 14, 2013.

The above-identified application was made by or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than (5) years, or both.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56, as follows:

§ 1.56 Duty to disclose information material to patentability.

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application.

There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98.

However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

(1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or

(2) It refutes, or is inconsistent with, a position the applicant takes in:

(i) Opposing an argument of unpatentability relied on by the Office, or

(ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

(1) Each inventor named in the application;

(2) Each attorney or agent who prepares or prosecutes the application; and

(3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, the applicant, an assignee, or anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

(e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

LEGAL NAME OF INVENTOR

Inventor: Noriharu MATSUDATE

Date (Optional) : _____

Signature: Noriharu Matsudate

Note: An Application Data Sheet (PTO/SB/14 or equivalent), including a naming of the entire inventive entity, must accompany this form. Use an additional copy of the present form for each additional inventor.

Electronic Acknowledgement Receipt	
EFS ID:	16972959
Application Number:	13966857
International Application Number:	
Confirmation Number:	1196
Title of Invention:	Display Device With Touch Panel
First Named Inventor/Applicant Name:	Takeshi Ookawara
Customer Number:	20457
Filer:	Melvin Kraus/joy aiken
Filer Authorized By:	Melvin Kraus
Attorney Docket Number:	1497.50463CX1
Receipt Date:	27-SEP-2013
Filing Date:	14-AUG-2013
Time Stamp:	08:38:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Applicant Response to Pre-Exam Formalities Notice	res.pdf	56517 4c87b4e07f170b1f166cbb72529b6c516201da33	no	1

Warnings:

Information:

2	Oath or Declaration filed	dec-ookawara.pdf	277822 d7057108daaf6409eb3ed3a173d1ba1ac7e4157e	no	2
Warnings:					
Information:					
3	Oath or Declaration filed	dec-matsudate.pdf	278549 4042083dbd8fb236fce182dea56e15cd89525f1	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			612888		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/966,857	08/14/2013	Takeshi Ookawara	1497.50463CX1

CONFIRMATION NO. 1196

PUBLICATION NOTICE



OC00000065494488

20457
ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 NORTH SEVENTEENTH STREET
SUITE 1800
ARLINGTON, VA 22209-3873

Title:Display Device With Touch Panel

Publication No.US-2013-0328815-A1

Publication Date:12/12/2013

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <http://pair.uspto.gov/>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/966,857	08/14/2013	Takeshi Ookawara	1497.50463CX1	1196
20457 7590 12/12/2013 ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-3873			EXAMINER DHARIA, PRABODH M	
			ART UNIT 2693	PAPER NUMBER
			MAIL DATE 12/12/2013	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 13/966,857	Applicant(s) OOKAWARA ET AL.	
	Examiner PRABODH M. DHARIA	Art Unit 2693	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 08-14-2013.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.

3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☒ Claim(s) 1-5 is/are pending in the application.
5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☒ Claim(s) 1-5 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☒ The drawing(s) filed on 08-14-2013 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☒ All b) ☐ Some** c) ☐ None of the:

1. ☒ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date 08-14-2013.

3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

4) ☐ Other: _____.

Art Unit: 2693

1. The present application is being examined under the pre-AIA first to invent provisions.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.
3. Applicant's claim for the benefit of a prior-filed application under 35 U.S.C. 119(e) or under 35 U.S.C. 120, 121, or 365(c) is acknowledged. Applicant has complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. with a specific reference to the prior-filed application in compliance with 37 CFR 1.78(a) is included in the first sentence(s) of the specification following the title or in an application data sheet. Applicant has also included claiming under 35 U.S.C. 120, 121 or 365(c), the relationship (i.e., continuation, divisional, or continuation-in-part) of the applications. However, Applicant has failed to recite status (abandoned, patented or co-pending) of the parent application.

Information Disclosure Statement

4. The information disclosure statement (IDS) submitted on 08-14-2013 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Art Unit: 2693

5. **Status:** Please all the replies and correspondence should be addressed to Examiner's new art unit 2629. Receipt is acknowledged of papers submitted on 08-14-2013 under new application, which have been placed of record in the file. Claims 1-5 are pending in this action.

6. Examiner cites particular columns and line numbers in the references as applied to the claims below for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested that, in preparing responses, the applicant fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

8. Claim 1 is rejected under pre-AIA 35 U.S.C. 102(e) as being anticipated by Shoji Hinata (US 20090096763 A1).

Regarding Claim 1, Shoji Hinata (US 20090096763 A1) discloses a display device (page 1, paragraph 3) with a touch panel (page 1, paragraph 3) comprising: the touch panel which includes a first substrate, and a second substrate arranged to face the first substrate in an opposed manner (page 1, paragraph 12 page 2, paragraph 18), wherein: the first substrate and the second substrate each include a detection area (page 1, paragraph 3) configured to detect a coordinate (page 1, paragraph 6, page 3, paragraphs 40-47) and an outside area which includes external terminals (page 1, paragraph 6, page 3, paragraph 40-47, suggests the wiring and lines connecting electrodes are connected to terminal connector external to the touch input area), the first substrate includes a plurality of first lines each configured to detect a coordinate (page 1, paragraphs 3, 5, 6, page 3, paragraphs 40-47), the second substrate includes a plurality of second lines in the detection area which face the first substrate plurality of second lines are configured of metal (page 1, paragraphs 3, 5, 6, page 3, paragraphs 40-47), and a polarizing plate is arranged on the first substrate at a side opposite to the second substrate (page 3, paragraph 36, page 4, paragraph 50, page 8, paragraphs 97, 98).

Claim Rejections - 35 USC § 103

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claims 2-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shoji Hinata (US 20090096763 A1) as applied to claim 1 above, and further in view of Nakanishi Akira et al. (US 20050046622 A1).

Regarding Claim 2, Shoji Hinata (US 20090096763 A1) fails to disclose the polarizing plate comprises a linear polarizing plate.

However, in the applicant field of endeavor prior art of Nakanishi Akira et al. (US 20050046622 A1) discloses the first substrate and the second substrate and an outside area which includes external terminals (Please see page 4, paragraphs 53-56 suggests the wiring lines area connected to the FPC) a detection area configured to detect a coordinate (page 1, paragraphs 1, 2, for further details please see pages 14, 15, Paragraphs 248, 253) and a polarizing plate is arranged on the first substrate at a side opposite to the second substrate and the polarizing plate comprises a linear polarizing plate (page 4, paragraph 56, for further detail please see pages 10 and 11, paragraphs 183-195). Further Examiner maintain, "the first substrate and the second substrate and

Art Unit: 2693

an outside area which includes external terminals, a detection area configured to detect a coordinate and a polarizing plate is arranged on the first substrate at a side opposite to the second substrate" well known to one ordinary skill in the art; Please see prior art of Kusuda Yasuji (US 6,814,452 B2) Col. 4, Lines 5-30, Col. 10, Lines 28-39.

The prior art of Shoji Hinata (US 20090096763 A1) provides a base process of a display device with a touch panel comprising: a touch panel which includes a first substrate, a second substrate arranged to face the first substrate in an opposed manner with a gap formed there between, a first electrode which is constituted of a plurality of metal lines formed on a surface of the first substrate which faces the second substrate, and a second electrode formed on a surface of the second substrate which faces the first substrate; a display panel which is mounted on the second substrate on a side opposite to the first substrate; in which the claimed invention can be seen as an improvement in that the first substrate and the second substrate and an outside area which includes external terminals, a detection area configured to detect a coordinate and a polarizing plate is arranged on the first substrate at a side opposite to the second substrate and the polarizing plate comprises a linear polarizing plate is known technique disclosed by Nakanishi Akira et al. (US 20050046622 A1) and is applicable to base process of Shoji Hinata (US 20090096763 A1). Nakanishi Akira et al. (US 20050046622 A1) disclosing known technique of the first substrate and the second substrate and an outside area which includes external terminals, a detection area configured to detect a coordinate and a polarizing plate is arranged on the first substrate at a side opposite to the second substrate and the polarizing plate comprises a linear polarizing plate would

Art Unit: 2693

have been recognized by one skill in the art as applicable to base process of Alain Hamm et al. (US 20090167721 A1) and the results would have been predictable and resulted in the stabilized touch panel with excellent in surface smoothness and environmental resistance; which results in an improved process. Therefore, the claimed subject matter would have been obvious to a person having ordinary skill in the art at the time the invention was made.

Regarding Claim 3, Nakanishi Akira et al. (US 20050046622 A1) discloses the polarizing plate comprises a circular polarizing plate (page 4, paragraph 56). Further Examiner maintains a polarizing plate, a first polarizing plate is adhered to a surface of the display panel opposite to the second substrate, and the resin film constitutes a second polarizing plate is well known to one ordinary skill in the art please see prior art of Kusuda Yasuji (US 6,814,452 B2) Col. 10, Lines 28-39. Please also see prior arts of Hinata Shoji (US 20090096763 A1) pages 3-6, paragraphs 40-68.

Regarding Claim 4, Nakanishi Akira et al. (US 20050046622 A1) discloses the second lines comprise a second electrode each configured to detect a coordinate (page 1, paragraphs 1, 2, for further details please see pages 14, 15, Paragraphs 248, 253, suggests detecting the coordinates positions suggesting x and y coordinates detection on first and second electrodes). Please also see prior art of Kusuda Yasuji (US 6,814,452 B2) Col. 4, Lines 5-30. Please also see prior arts of Hinata Shoji (US 20090096763 A1) pages 3-6, paragraphs 40-68.

Art Unit: 2693

Regarding Claim 5, Nakanishi Akira et al. (US 20050046622 A1) discloses a transparent electrode connects to the second lines. (page 2, paragraphs 22-26), Please also see prior arts of Hinata Shoji (US 20090096763 A1) pages 3-6, paragraphs 40-68.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Applicant is requested to review the cited prior arts on PTO 892's.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PRABODH M. DHARIA whose telephone number is (571)272-7668. The examiner can normally be reached on 8:00AM-5:00PM.

13. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Quan-Zhen Wang can be reached on 571-272-3114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

14. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic

Art Unit: 2693

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

P.O. Box 1450

Alexandria VA 22313-1450

/Prabodh M Dharia/

Primary Examiner

Art Unit 2629

12-09-2013

Notice of References Cited	Application/Control No. 13/966,857	Applicant(s)/Patent Under Reexamination OOKAWARA ET AL.	
	Examiner PRABODH M. DHARIA	Art Unit 2693	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2009/0096763	04-2009	Hinata, Shoji	345/174
*	B	US-2005/0139398	06-2005	Endo, Michiko	178/018.01
*	C	US-2009/0046077	02-2009	Tanaka et al.	345/174
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



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BIB DATA SHEET

CONFIRMATION NO. 1196

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
13/966,857	08/14/2013	345	2693	1497.50463CX1		
RULE						
APPLICANTS Panasonic Liquid Crystal Display Co., Ltd., Hyogo-ken, JAPAN, Assignee (with 37 CFR 1.172 Interest); Japan Display Inc., Chiba, JAPAN, Assignee (with 37 CFR 1.172 Interest);						
INVENTORS Takeshi Ookawara, Mobara, JAPAN; Noriharu Matsudate, Kujukuri, JAPAN;						
** CONTINUING DATA ***** This application is a CON of 12/649,414 12/30/2009 PAT 8519969						
** FOREIGN APPLICATIONS ***** JAPAN 2009-004874 01/13/2009						
** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 08/28/2013						
Foreign Priority claimed	☒ Yes ☐ No	☐ Met after Allowance	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
35 USC 119(a-d) conditions met	☒ Yes ☐ No		JAPAN	10	5	1
Verified and	/PRABODH M DHARIA/ Examiner's Signature		Initials			
Acknowledged						
ADDRESS ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-3873 UNITED STATES						
TITLE Display Device With Touch Panel						
FILING FEE RECEIVED 1740	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees		
				☐ 1.16 Fees (Filing)		
				☐ 1.17 Fees (Processing Ext. of time)		
				☐ 1.18 Fees (Issue)		
				☐ Other _____		
				☐ Credit		

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	13966857
		Filing Date	August 14, 2013
		First Named Inventor	Takeshi OOKAWARA
		Art Unit	2693
Examiner Name	P Dharja		
Sheet 1 of 1	Attorney Docket Number	501.50463CX1	

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
/P.D./		US- 2009/0167721		7/2009	Hamm et al	
/P.D./		US- 8,125,466		2/2012	Hamm et al	
/P.D./		US- 2005/0046622		3/2005	Nakanishi et al	
/P.D./		US- 6,078,274		6/2000	Inoue	
/P.D./		US- 2008/0030483		2/2008	Choo et al	
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/P.D./		US- 2006/0274049		12/2006	Spath et al	
/P.D./		US- 6,814,452		11/2004	Kusuda et al	
/P.D./		US- 2009/0086318		4/2009	Yaegashi et al	
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/P.D./		US- 2001/0043291		11/2001	Kono et al	
/P.D./		US- 2006/0274047		12/2006	Spath et al	
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/P.D./		US- 6,552,718		4/2003	Ahn et al	
/P.D./		US- 8,228,453		7/2012	Yamazaki et al	
/P.D./		US- 7,868,957		1/2011	Yamazaki et al	
/P.D./		US - 2003/0090803		5/2003	Kusuda	
/P.D./		US- 6,814,452		11/2004	Kusuda	
/P.D./		US - 2011/0069036		3/2011	Anno	
/P.D./		US - 2010/0085326		4/2010	Anno	
/P.D./		US - 2010/0033443		2/2010	Hashimoto	

FOREIGN PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ –Number ⁴ –Kind Code ⁵ (if known)	MM-DD-YYYY			
/P.D./		JP 2002-342014	11/29/2002	NEC Microsystems Ltd		abs

Examiner Signature	/Prabodh Dharja/	Date Considered	12/09/2013
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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Search Notes 	Application/Control No. 13966857	Applicant(s)/Patent Under Reexamination OOKAWARA ET AL.
	Examiner PRABODH M DHARIA	Art Unit 2693

CPC- SEARCHED		
Symbol	Date	Examiner
G06F3/044,045,047,0412		

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
345	173-179	12-08-2013	PD
349	12,58,153,155,156		
438	51,455		
178	18.01-18.06		

SEARCH NOTES		
Search Notes	Date	Examiner
East text search per (US-PGPUB;USPAT;USOCR;JPO;EPO;DERWENT;IBM_TDB;FPRS)	12-08-2013	PD

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
345 / G06F3	173-179 / 044,045,047,0412	12-08-2013	PD
rest as listed above as searched			
Interference search per (US-PGPUB)			

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<i>Index of Claims</i> 	Application/Control No. 13966857	Applicant(s)/Patent Under Reexamination OOKAWARA ET AL.
	Examiner PRABODH M DHARIA	Art Unit 2693

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	12/08/2013								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	2	"20090096763"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/09 10:24
L4	1	"20090096763" and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/09 10:25
L5	1	"20090096763" and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/09 10:26
L6	1	"20090096763" and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/09 10:28
L7	1	"20090096763" and second same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1 and metal\$3 same (line\$1 or electrode\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/09 10:37
L8	0	"20090096763" and second same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1 and metal\$3 same (line\$1 or electrode\$1) and circular	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/09 10:38
S1	49	averag\$3 same power\$3 same level\$3 same control\$4 same gamma same characteristic\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:26
S2	65	averag\$3 same power\$3 same (level\$3	US-PGPUB;	OR	OFF	2013/12/08

		OR VOLTAGE\$1 OR POTENTIAL\$1) same control\$4 same gamma same characteristic\$1	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			10:27
S3	24	DIFFERENT SAME averag\$3 same power\$3 same (level\$3 OR VOLTAGE\$1 OR POTENTIAL\$1) same control\$4 same gamma same characteristic\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:27
S4	11	DIFFERENT SAME averag\$3 same power\$3 near3 (level\$3 OR VOLTAGE\$1 OR POTENTIAL\$1) same control\$4 same gamma same characteristic\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:28
S5	3	DIFFERENT SAME averag\$3 same power\$3 near3 (level\$3 OR VOLTAGE\$1 OR POTENTIAL\$1) same control\$4 same gamma near3 characteristic\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:28
S6	0	DIFFERENT SAME averag\$3 same power\$3 near3 (level\$3 OR VOLTAGE\$1 OR POTENTIAL\$1) same control\$4 near3 (gamma same characteristic\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:29
S7	2	DIFFERENT SAME averag\$3 same power\$3 near3 (level\$3 OR VOLTAGE\$1 OR POTENTIAL\$1) same measur\$3 near3 (gamma same characteristic\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:29
S8	13	base\$3 same (DIFFERENT SAME averag\$3 same power\$3 same (level\$3 OR VOLTAGE\$1 OR POTENTIAL\$1)) same control\$4 same (gamma same characteristic\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:30
S9	10	based same DIFFERENT SAME (averag\$3 same power\$3 same (level\$3 OR VOLTAGE\$1 OR POTENTIAL\$1)) same measur\$3 same (gamma same characteristic\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:32
S10	252	based same ((different or plural\$3) (averag\$3 same power\$3 same (level\$3 OR VOLTAGE\$1 OR POTENTIAL\$1))) same measur\$3 same (gamma same characteristic\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2013/12/08 10:32

			IBM_TDB			
S11	8	based same ((different or plurral\$3) same(averag\$3 same power\$3 same (level\$3 or voltage\$1 or pontential\$1))) same measur\$3 same (gamma same characteristic\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:33
S12	8	based same ((different or plurral\$3) same(averag\$3 same power\$3 same (level\$3 or voltage\$1 or pontential\$1))) same (measur\$3 same (gamma same characteristic\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:34
S13	17	bas\$3 same ((different or plurral\$3) same(averag\$3 same power\$3 same (level\$3 or voltage\$1 or pontential\$1))) same (measur\$3 same (gamma same characteristic\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:34
S14	8	bas\$3 same ((different or plurral\$3) same(averag\$3 same power\$3 near3 (level\$3 or voltage\$1 or pontential\$1))) same (measur\$3 same (gamma same characteristic\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:34
S15	2	bas\$3 same ((different or plurral\$3) same(averag\$3 same power\$3 near3 (level\$3 or voltage\$1 or pontential\$1))) same (measur\$3 near3 (gamma same characteristic\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:34
S16	2	bas\$3 same ((different or plurral\$3) same(averag\$3 same power\$3 near3 (level\$3 or voltage\$1 or pontential\$1))) same interpolat\$3 same coefficient\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:38
S17	4	bas\$3 same ((different or plurral\$3) same(averag\$3 same power\$3 same (level\$3 or voltage\$1 or pontential\$1))) same interpolat\$3 same coefficient\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:38
S18	2	bas\$3 same ((different or plurral\$3) same(averag\$3 same power\$3 same (level\$3 or voltage\$1 or pontential\$1))) same interpolat\$3 same coefficient\$1 same gamma same control\$4 same function\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:39
S19	117036	display\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2013/12/08 10:43

			EPO; JPO; DERWENT; IBM_TDB			
S20	66819	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:44
S21	2609	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same (first and second) same substrate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:44
S22	140	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:47
S23	59	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) same (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:49
S24	17	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) same (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal same (area\$1 or region\$1 or section\$1 or partition\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:51
S25	20	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) same (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:51
S26	80	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:53

S27	22	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and (first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1) same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:55
S28	0	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and (first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1) same second same (metal\$3 same (line or electrode\$1)) same detect\$3 same touch\$3 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:56
S29	9	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and (first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1) same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:58
S30	5	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and (first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:25

		substrate\$1) same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1 and metal same (line\$1 or electrode\$1)				
S31	0	"13966857"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:34
S32	1	"12969414"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:34
S33	2	"12649414"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:35
S34	137187	G06F3/\$.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:49
S35	18302	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:49
S36	1876	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:49
S37	271	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:50
S38	73	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2013/12/08 11:50

		section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1))	IBM_TDB			
S39	25	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:53
S40	22	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:53
S41	9	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:54
S42	5	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:55

		same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1 and metal same (line\$1 or electrode\$1)				
S43	5	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1 and metal\$3 same (line\$1 or electrode\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:55
S44	16	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and ITO	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 12:41
S45	17	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and (ITO or (indium same tin same oxide))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 12:42
S46	11	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and (ITO or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 12:45

		(indium same tin same oxide)) same (line or electrode\$1)				
S47	1	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1 and metal\$3 same (line\$1 or electrode\$1) and (ITO or (indium same tin same oxide)) same (line or electrode\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 12:54
S48	3	"20090167721"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 13:11
S49	0	"20090167721" and polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 13:22
S50	1	"20050046622" and polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 13:24
S51	1	"20050046622" and polariz\$3 and terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 13:28
S52	0	"20090167721" and terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 13:44
S53	0	"20050046622" and polariz\$3 and terminal\$1 same connect\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2013/12/08 13:45

			DERWENT; IBM_TDB			
S54	0	"20090167721" and detect\$3 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 14:01
S55	0	"20050046622" and polariz\$3 and terminal\$1 and detect\$3 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 14:02
S56	0	"20090167721" and coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 14:03
S57	1	"20050046622" and polariz\$3 and terminal\$1 and coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 14:03
S58	0	"20050046622" and polariz\$3 same linear\$5 and terminal\$1 and coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 15:08
S59	1	"20050046622" and polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 15:09
S60	2	"6814452".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 15:10
S61	1	"6814452".pn. and linear\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 15:11
S62	1	"6814452".pn. and linear\$5 and circular	US-PGPUB; USPAT; USOCR;	OR	OFF	2013/12/08 15:11

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S63	1	"20050046622" and polariz\$3 and terminal\$1 and linear\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 15:52
S64	1	"6814452".pn. and touc\$3 same contact\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 15:54
S65	1	"20050046622" and polariz\$3 and terminal\$1 and linear\$3 and contact\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 16:13
S66	1	"20050046622" and polariz\$3 and terminal\$1 and linear\$3 and contact\$3 same electrode\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 16:14
S67	0	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1 and metal\$3 same (line\$1 or electrode\$1) and (ITO or (indium same tin same oxide)) same (line or electrode\$1) and linear\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 16:27

12/ 9/ 2013 11:17:00 AM

C:\Users\pdharia\Documents\EAST\Workspaces\13966857 12-07-2013.wsp

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: OOKAWARA et al
Serial No.: 13/966,857
Filed: August 14, 2013
For: Display Device with Touch Panel
Art Unit: 2693
Examiner: P. Dharia
Conf. No.: 1196

AMENDMENT

Mail Stop: Amendment
Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

March 11, 2014

Sir:

The following amendments and remarks are respectfully submitted in connection with the above-identified application, in response to the Office Action dated December 12, 2013. The amendments are as listed below.

Amendments to the Claims; and

Remarks are included following the amendments.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A display device with a touch panel comprising:

the touch panel which includes a first substrate, and a second substrate arranged to face the first substrate in an opposed manner, wherein:

the first substrate and the second substrate each include a detection area configured to detect a coordinate and an outside area in which includes external terminals are formed,

the first substrate includes a plurality of first lines each configured to detect a coordinate,

the second substrate includes a plurality of second lines in the detection area which face the first substrate,

each of the plurality of first lines and the plurality of second lines are configured of metal, [[and]]

each of the plurality of first lines is black in color.

a polarizing plate is arranged on the first substrate at a side opposite to the second substrate,

the first substrate includes a plurality of wiring groups.

each of the plurality of wiring groups include at least two first lines of the plurality of first lines, and

the at least two first lines of each of the plurality of wiring groups are combined with each other.

2. (original) The display device with a touch panel according to claim 1, wherein the polarizing plate comprises a linear polarizing plate.

3. (original) The display device with a touch panel according to claim 1, wherein the polarizing plate comprises a circular polarizing plate.

4. (original) The display device with a touch panel according to claim 1, wherein the second lines comprise a second electrode each configured to detect a coordinate.

5. (original) The display device with a touch panel according to claim 1, wherein a transparent electrode connects to the second lines.

6. (new) A display device with a touch panel according to claim 1, wherein the at least two first lines of each of the plurality of wiring groups are combined with each other by a pad member.

7. (new) A display device with a touch panel according to claim 1, wherein a transparent conductive film overlaps the plurality of the second lines in plan view, and wherein the transparent conductive film is electrically connected to the plurality of the second lines.

8. (new) A display device with a touch panel comprising:

the touch panel including a first substrate having a detection area to detect a coordinate and an outside area in which external terminals are formed, a plurality of

first lines to detect the coordinate in the detection area, a plurality of second lines to detect the coordinate in the detection area, each of the plurality of first lines traversing each of the plurality of second lines;

an organic luminescence electric device panel which is adhered to the touch panel; and

a circular polarizing plate which is adhered to the touch panel at a side opposite to the organic luminescence electric device panel.

9. (new) A display device with a touch panel according to claim 8, wherein each of the plurality of first lines and the plurality of second lines is made of metal, and wherein each of the plurality of first lines is black in color.

10. (new) A display device with a touch panel according to claim 9, wherein the touch panel includes a plurality of wiring groups, wherein each of plurality of wiring groups includes at least first two lines of the plurality of first lines, and wherein the at least two first lines in each of plurality of wiring groups are combined with each other.

11. (new) A display device with a touch panel according to claim 10, wherein the at least two first lines of each of the plurality of wiring groups are combined with each other by a pad member.

12. (new) A display device with a touch panel according to claim 9, wherein a transparent conductive film overlays the plurality of the second lines, and wherein the transparent conductive film is electrically connected to the plurality of the second lines.

13. (new) A display device with a touch panel according to claim 10, wherein a transparent conductive film overlays the plurality of the first lines, and wherein the transparent conductive film is electrically connected to the plurality of the first lines.

14. (new) A display device with a touch panel according to claim 9, wherein a transparent conductive film underlays the plurality of the second lines, and wherein the transparent conductive film is electrically connected to the plurality of the second lines.

15. (new) A display device with a touch panel according to claim 10, wherein a transparent conductive film underlays the plurality of the first lines, and wherein the transparent conductive film is electrically connected to the plurality of first lines.

REMARKS

By the above amendment, claim 1 has been amended to clarify and recite additional features of the present invention, with new dependent claims 6 and 7 reciting further features. Additionally, a new independent claim 8 has been presented together with new dependent claims 9 - 14 reciting further features of the present invention, as discussed below.

Turning to the amendment of claim 1, such claim has been amended to recite the feature that each of the plurality of first lines is black in color, as described in sub-paragraph (8) of paragraph [0045] at page 19 of the specification, while further defining the feature as illustrated in Fig. 14 of the drawings of this application and described in paragraph [0048] at page 20 of the specification, that the first substrate includes a plurality of wiring groups with each of the wiring groups including at least two first lines of the plurality of first lines, and that the at least two first lines of each of the plurality of wiring groups are combined with each other, noting that new dependent claim 6 recites the feature that the at least two first lines of each of the plurality of wiring groups are combined with each other by a pad member, as illustrated in Fig. 14 and described. Also, new dependent claim 7 recites the feature, as illustrated in Figs. 17 and 18 of the drawings of this application and described in paragraphs [0051] - [0052] at pages 21 and 22 of the specification, that a transparent conductive film, as represented by TLINE overlaps the plurality of second lines, as represented by MLINE, in plan view, and wherein the transparent conductive film is electrically connected to the plurality of second lines. It is noted that dependent claims 2 - 5 have been retained without amendment and applicants submit that independent claim 1, as amended, and dependent claims 2 - 7 recite features which

are not disclosed or taught in the cited art, as will become clear from the following discussion.

Additionally, by the present amendment, the new independent claim 8 has been presented directed to the structural arrangement as illustrated in Figs. 5 - 8 of the drawings, for example, and described in paragraph [0030] at page 12 of the specification that the display device with a touch panel includes the touch panel 10 having the features, as illustrated, and organic luminescence electric device panel 122, which is adhered to the touch panel 10, as illustrated in Fig. 6, and a circular polarizing plate 126, which is adhered to the touch panel 10 at a side opposite to the organic luminescence electric device panel 122. New dependent claims 9 and 10 recite the features corresponding to the newly added features of claim 1, as discussed above, while newly added dependent claims 11 - 14 recite features corresponding to newly added dependent claims 6 and 7, as discussed above. Applicants submit that the recited features of claims 8 - 15 are also supported by the application papers, as originally filed, and that such features are also not disclosed or taught in the cited art, as will become clear from the following discussion.

As to the rejection of claim 1 under pre-AIA 35 USC 102(e) as being anticipated by Shoji Hinata (US 2009/0096763 A1); and the rejection of claims 2 - 5 under 35 USC 103(a) as being unpatentable over Shoji Hinata (US 2009/0096763 A1), further in view of Nakanishi Akira et al (US 2005/0046622 A1); such rejections are traversed insofar as they are applicable to the present claims, as amended, and reconsideration and withdrawal of the rejections are respectfully requested.

Looking to claim 1, as amended, irrespective of the contentions by the Examiner concerning the disclosure of Shoji Hinata, applicants submit that Shoji Hinata fails to disclose in the sense of 35 USC 102 or teach in the sense of 35 USC

103, that each of the plurality of first lines is black in color and that the first substrate includes a plurality of wiring groups, wherein each of the plurality of wiring groups include at least two first lines of the plurality of first lines, and that the at least two first lines of each of the plurality of wiring groups are combined with each other. Thus, claim 1, as amended, recite features which patentably distinguish over Shoji Hinata and claim 1 and its dependent claims should be considered allowable thereover.

With respect to newly added dependent claims 6 and 7, hereagain, Shoji Hinata fails to disclose or teach the recited feature of dependent claim 6 that the at least two first lines of each of the plurality of wiring groups are combined with each other by a pad member, and that a transparent conductive film overlaps the plurality of second lines in plan view and that the transparent conductive film is electrically connected to the plurality of second lines. Accordingly, applicants submit that these newly added dependent claims recite further features which patentably distinguish over Shoji Hinata and should be considered allowable thereover.

As to the combination of Shoji Hinata and Nakanishi Akira et al in relation to the recited features of claims 2 - 5, irrespective of the contentions by the Examiner, applicants submit that Nakanishi Akira et al fails to disclose or teach the newly added features of claim 1, as discussed above, as well as the newly added features as recited in dependent claims 6 and 7. Thus, applicants submit that the combination of Shoji Hinata and Nakanishi Akira et al fail to provide the recited features of claim 1 and the dependent claims such that all claims should be considered allowable over this proposed combination of references.

With respect to newly added independent claim 8 and dependent claims

9 - 15, applicants submit that Shoji Hinata and Nakanishi Akira et al fail to disclose a touch panel and an organic luminescence electric device panel, wherein the organic luminescence electric device panel is adhered to the touch panel, and a circular polarizing plate is adhered to the touch panel at a side opposite to the organic luminescence organic electric device panel. Thus, applicants submit that claim 6 recites features not disclosed or taught by Shoji Hinata and Nakanishi Akira et al, taken alone, or in any combination thereof, such that claim 6 and the dependent claims should be considered allowable thereover.

As to newly added dependent claims 9 - 15 which depend directly or indirectly from claim 6, as noted above, such claims recite features corresponding to the newly added features of claims 1, 6 and 7 which are not disclosed or taught by Shoji Hinata and Nakanishi Akira et al, taken alone or in any combination thereof. Thus, applicants submit that independent claim 8 and its dependent claims 9 - 15, recite features which patentably distinguish over the cited art, and should be considered allowable thereover.

In view of the above amendments and remarks, applicants submit that all claims present in this application should now be in condition for allowance, and issuance of an action of favorable nature is courteously solicited.

To the extent necessary, applicants petition for an extension of time under 37 CFR 1.136. Please charge any shortage in the fees due in connection with the filing

of this paper, including extension of time fees, to the deposit account of Antonelli,
Terry, Stout & Kraus, LLP, Deposit Account No. 01-2135 (Case: 1497.50463CX1),
and please credit any excess fees to such deposit account.

Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS, LLP

/Melvin Kraus/ *MK*
Melvin Kraus
Registration No. 22,466

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Electronic Acknowledgement Receipt	
EFS ID:	18432523
Application Number:	13966857
International Application Number:	
Confirmation Number:	1196
Title of Invention:	Display Device With Touch Panel
First Named Inventor/Applicant Name:	Takeshi Ookawara
Customer Number:	20457
Filer:	Melvin Kraus/joy aiken
Filer Authorized By:	Melvin Kraus
Attorney Docket Number:	1497.50463CX1
Receipt Date:	11-MAR-2014
Filing Date:	14-AUG-2013
Time Stamp:	14:26:20
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	50463amd.pdf	721927 011cd82d36c61573481fe96edd7e8e39f9e1b450	no	10

Warnings:

Information:

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B or equivalent) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5. If the Power of Attorney by Applicant form is not accompanied by this transmittal form or an equivalent, the Power of Attorney will not be recognized in the application.

Application Number	13/966,857
Filing Date	August 14, 2013
First Named Inventor	OOKAWARA et al
Title	Display Device with Touch Panel
Art Unit	2693
Examiner Name	P. Dharia
Attorney Docket Number	1497.50463CX1

SIGNATURE of Applicant or Patent Practitioner

Signature	/Melvin Kraus/ <i>MF</i>	Date	March 15, 2014
Name	Melvin Kraus	Telephone	7033126600
Registration Number	22466		

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications.

☒ *Total of 2 forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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I hereby revoke all previous powers of attorney given in the application identified in the attached transmittal letter.

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20457

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- ☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A or equivalent):

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020457

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Address			
City	State	Zip	
Country			
Telephone	Email		

I am the Applicant:

- ☐ Inventor or Joint Inventor
☐ Legal Representative of a Deceased or Legally Incapacitated Inventor
☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign
☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document)

SIGNATURE of Applicant for Patent	
Signature	<i>Ken Nakashima</i>
Name	Ken NAKASHIMA
Date	Jan. 6 2014
Telephone	
Title and Company	Group Manager, Patent Group 1, Intellectual Property Dept, Japan Display Inc.

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms for more than one signature, see below *.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in the attached transmittal letter.

- ☒ I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A or equivalent):

20457

OR

- ☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A or equivalent):

Name	Registration Number	Name	Registration Number

Please recognize or change the correspondence address for the application identified in the attached transmittal letter to:

- ☒ The address associated with the above-mentioned Customer Number.

OR

- ☐ The address associated with Customer Number:

020457

OR

☐ Firm or Individual Name

Address

City

State

Zip

Country

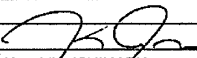
Telephone

Email

I am the Applicant:

- ☐ Inventor or Joint Inventor
☐ Legal Representative of a Deceased or Legally Incapacitated Inventor
☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign
☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document)

SIGNATURE of Applicant for Patent

Signature		Date	
Name	Kazuhiko ISHIMARU	Telephone	+81-50-3787-7576
Title and Company	Manager, Intellectual Property Team, Product Development Center, Panasonic Liquid Crystal Display Co., Ltd.		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms for more than one signature, see below *.

- ☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Acknowledgement Receipt	
EFS ID:	18510607
Application Number:	13966857
International Application Number:	
Confirmation Number:	1196
Title of Invention:	Display Device With Touch Panel
First Named Inventor/Applicant Name:	Takeshi Ookawara
Customer Number:	20457
Filer:	Melvin Kraus/joy aiken
Filer Authorized By:	Melvin Kraus
Attorney Docket Number:	1497.50463CX1
Receipt Date:	18-MAR-2014
Filing Date:	14-AUG-2013
Time Stamp:	15:45:42
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	poa.pdf	481241	no	3
			6ce2bf2ddc7cd48831ff10381b343c43bcce80a8		

Warnings:

Information:

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/966,857	08/14/2013	Takeshi Ookawara	1497.50463CX1

CONFIRMATION NO. 1196

POA ACCEPTANCE LETTER



20457
ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 NORTH SEVENTEENTH STREET
SUITE 1800
ARLINGTON, VA 22209-3873

Date Mailed: 03/24/2014

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 03/18/2014.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/ttkim/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

20457 7590 04/16/2014
ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 NORTH SEVENTEENTH STREET
SUITE 1800
ARLINGTON, VA 22209-3873

EXAMINER

DHARIA, PRABODH M

ART UNIT

PAPER NUMBER

2693

DATE MAILED: 04/16/2014

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/966,857	08/14/2013	Takeshi Ookawara	1497.50463CX1	1196

TITLE OF INVENTION: Display Device With Touch Panel

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	07/16/2014

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax **(571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

20457 7590 04/16/2014
ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 NORTH SEVENTEENTH STREET
SUITE 1800
ARLINGTON, VA 22209-3873

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/966,857	08/14/2013	Takeshi Ookawara	1497.50463CX1	1196

TITLE OF INVENTION: Display Device With Touch Panel

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	07/16/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
DHARIA, PRABODH M	2693	345-173000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/966,857	08/14/2013	Takeshi Ookawara	1497.50463CX1	1196
20457 7590 04/16/2014 ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-3873			EXAMINER DHARIA, PRABODH M	
			ART UNIT 2693	PAPER NUMBER
DATE MAILED: 04/16/2014				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

<i>Notice Requiring Inventor's Oath or Declaration</i>	Application No. 13/966,857	Applicant(s) Takeshi Ookawara	
	Examiner DHARIA, PRABODH M	Art Unit 2693	

This notice is an attachment to the Notice of Allowability (PTOL-37), or the Notice of Allowability For A Design Application (PTOL-37D).

An inventor's oath or declaration in compliance with 37 CFR 1.63 or 1.64 executed by or with respect to each inventor has not yet been submitted.

An oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each inventor (for any inventor for which a compliant oath, declaration, or substitute statement has not yet been submitted) **MUST** be filed no later than the date on which the issue fee is paid. See 35 U.S.C. 115(f). Failure to timely comply will result in ABANDONMENT of this application.

A properly executed inventor's oath to declaration has not been received for the following inventor(s):

If applicant previously filed one or more oaths, declarations, or substitute statements, applicant may have received an informational notice regarding deficiencies therein.

The following deficiencies are noted:

INFORMAL ACTION PROBLEMS

- A properly executed inventor's oath or declaration has not been received for the following inventor(s): **Takeshi Ookawara and Noriharu Matsudate**.
Applicant may submit the inventor's oath or declaration at any time before the Notice of Allowance and Fee(s) Due, PTOL-85, is mailed.

Questions relating to this Notice should be directed to the Application Assistance Unit at 571-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 13/966,857	Applicant(s) OOKAWARA ET AL.	
	Examiner PRABODH M. DHARIA	Art Unit 2693	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 03-11-2014.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 1-15. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
Certified copies:
a) ☒ All b) ☐ Some *c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____ .
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892) 2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date ____ 3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 4. ☐ Interview Summary (PTO-413), Paper No./Mail Date ____ .	5. ☐ Examiner's Amendment/Comment 6. ☒ Examiner's Statement of Reasons for Allowance 7. ☐ Other ____ .
---	--

/PRABODH M DHARIA/ Primary Examiner, Art Unit 2693	
---	--

Art Unit: 2693

1. The present application is being examined under the pre-AIA first to invent provisions.
2. **Status:** Please all the replies and correspondence should be addressed to Examiner's new art unit 2693. Receipt is acknowledged of papers submitted on 03-11-2014 under amendments and request for reconsideration, which have been placed of record in the file. Claims 1-15 are pending in this action.

Response to Amendment

3. The amendment filed on 03-11-2014 does not introduce any new matter into the disclosure. The added material does have support in the original disclosure. Applicant has added allowable to limitations to independent Claim 1 and newly added independent claim 9 to expedite allowance of instant application. Applicant has also added new dependent claims 6, 7, and 9-15 to claim additional features of the applicant's invention.

4. Applicant has added allowable to limitations to independent Claim 1 and newly added independent claim 9 to expedite allowance of instant application. Applicant has also added new dependent claims 6, 7, and 9-15 to claim additional features of the applicant's invention. Applicant arguments filed on 03-11-2014, under remark regarding allowable limitations “

For Claims 1-5

each of the plurality of first lines and the plurality of second lines are configured of metal, each of the plurality of first lines is black in color, a polarizing plate is arranged on the first substrate at a side opposite to the second substrate, the first substrate includes a plurality of wiring groups, each of the plurality of wiring groups include at least two first lines of the plurality of first lines, and the at least two first lines of each of the plurality of wiring groups are combined with each other

For Claims 6-15

first lines to detect the coordinate in the detection area, a plurality of second lines to detect the coordinate in the detection area, each of the plurality of first lines traversing each of the plurality of

Art Unit: 2693

second lines; an organic luminescence electric device panel which is adhered to the touch panel; and a circular polarizing plate which is adhered to the touch panel at a side opposite to the organic luminescence electric device panel" are persuasive; as after further extensive search and consideration, amended independent claims 1 and 8 does overcome the prior art rejection mailed on 12-12-2013; which puts application number 13966857 in condition for allowance.

Allowable Subject Matter

5. Claims 1-15 are allowed.

6. The following is an examiner's statement of reasons for allowance:

Applicant has added allowable to limitations to independent Claim 1 and newly added independent claim 9 to expedite allowance of instant application. Applicant has also added new dependent claims 6, 7, and 9-15 to claim additional features of the applicant's invention. Applicant's arguments filed on 03-11-2014 are convincing. As argued by applicant in remarks under claim rejection page 7, last two paragraphs; page 8, and page 9 paragraph 1; the prior arts of Shoji Hinata (US 2009/0096763 A1); Hamm et al. (US 20090167721 A1); Nakanishi Akira et al. (US 20050046622 A1) and Spath Todd Met al. (US 20060274047 A1) with all of the other prior art cited on 892's 1449's, searched in NPL and searched in PG PUB, fails to recite or disclose all the other limitations of independent claims in combination with uniquely distinct features represented by underlined bold claim limitations recited below;

For Claims 1-5

each of the plurality of first lines and the plurality of second lines are configured of metal, each of the plurality of first lines is black in color, a polarizing plate is arranged on the first substrate at a side opposite to the second substrate, the first substrate includes a plurality of wiring groups, each of the plurality of wiring groups include at least two first lines of the plurality of first lines, and the at least two first lines of each of the plurality of wiring groups are combined with each other.

For Claims 6-15

Art Unit: 2693

first lines to detect the coordinate in the detection area, a plurality of second lines to detect the coordinate in the detection area, each of the plurality of first lines traversing each of the plurality of second lines; an organic luminescence electric device panel which is adhered to the touch panel; and a circular polarizing plate which is adhered to the touch panel at a side opposite to the organic luminescence electric device panel.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prabodh M Dharia whose telephone number is 571-272-7668. The examiner can normally be reached on M-F 8AM to 5PM.
8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Quan-Zhen Wang can be reached on 571-272-3114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

P.O. Box 1450

Alexandria VA 22313-1450

Application/Control Number: 13/966,857

Page 5

Art Unit: 2693

/Prabodh M Dharia/

Primary Examiner

Art Unit 2693

04-15-2014

Notice of References Cited	Application/Control No. 13/966,857	Applicant(s)/Patent Under Reexamination OOKAWARA ET AL.	
	Examiner PRABODH M. DHARIA	Art Unit 2693	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2005/0046622	03-2005	Nakanishi et al.	345/173
*	B	US-2002/0047969	04-2002	Minakuchi, Keiichi	349/117
*	C	US-2009/0143141	06-2009	Wells et al.	463/37
*	D	US-2009/0128518	05-2009	Kinoshita et al.	345/174
*	E	US-8,072,436	12-2011	Eriguchi et al.	345/173
*	F	US-2010/0085322	04-2010	MAMBA et al.	345/173
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6	touch\$3 same screen same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 22:01
L2	22	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 22:01
L3	16	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and touch\$3 same (detect\$4 or sens\$3) same coordinate\$1 same (line\$1 or electrode\$1) same (intersect\$4 or travers\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 22:02
L4	0	("2013/0278564").URPN.	USPAT	OR	OFF	2014/04/14 22:02
L5	0	(13/851140).APP.	USPAT; USOCR	OR	OFF	2014/04/14 22:02
L6	0	("2013/0278516").URPN.	USPAT	OR	OFF	2014/04/14 22:02
L7	0	(13/851144).APP.	USPAT; USOCR	OR	OFF	2014/04/14 22:02
L8	0	("2013/0222317").URPN.	USPAT	OR	OFF	2014/04/14 22:02
L9	0	(13/877671).APP.	USPAT; USOCR	OR	OFF	2014/04/14 22:02
L10	1	("2013/0168138").URPN.	USPAT	OR	OFF	2014/04/14 22:02
L11	1	(13/808505).APP.	USPAT; USOCR	OR	OFF	2014/04/14 22:03
L12	0	("2013/0027333").URPN.	USPAT	OR	OFF	2014/04/14 22:03
L13	0	(13/558426).APP.	USPAT; USOCR	OR	OFF	2014/04/14 22:03
L14	0	("2013/0027330").URPN.	USPAT	OR	OFF	2014/04/14 22:03
L15	0	(13/556251).APP.	USPAT; USOCR	OR	OFF	2014/04/14 22:03
L16	0	("2012/0249454").URPN.	USPAT	OR	OFF	2014/04/14 22:03

L17	0	(13/406018).APP.	USPAT; USOCR	OR	OFF	2014/04/14 22:03
L18	0	("2012/0127387").URPN.	USPAT	OR	OFF	2014/04/14 22:03
L19	0	(13/387611).APP.	USPAT; USOCR	OR	OFF	2014/04/14 22:03
L20	0	("2012/0075243").URPN.	USPAT	OR	OFF	2014/04/14 22:03
L21	0	(13/240170).APP.	USPAT; USOCR	OR	OFF	2014/04/14 22:03
L22	4	("2010/0085322").URPN.	USPAT	OR	OFF	2014/04/14 22:03
L23	0	(12/573955).APP.	USPAT; USOCR	OR	OFF	2014/04/14 22:04
L24	0	("2010/0007628").URPN.	USPAT	OR	OFF	2014/04/14 22:04
L25	1	(12/499831).APP.	USPAT; USOCR	OR	OFF	2014/04/14 22:04
L26	58	("2009/0143141").URPN.	USPAT	OR	OFF	2014/04/14 22:04
L27	0	(12/265627).APP.	USPAT; USOCR	OR	OFF	2014/04/14 22:04
L28	1	("2009/0128518").URPN.	USPAT	OR	OFF	2014/04/14 22:04
L29	1	(12/292131).APP.	USPAT; USOCR	OR	OFF	2014/04/14 22:04
L30	6	("20010010566" "20060022910" "20100247870" "4999693" "5039620" "5164322").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/14 22:04
L31	0	("8664533").URPN.	USPAT	OR	OFF	2014/04/14 22:05
L32	1	(13/808505).APP.	US-PGPUB; USOCR	OR	OFF	2014/04/14 22:05
L33	4	("20040217945" "20070008299" "20080143906" "7288716").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/14 22:05
L34	5	("8077161").URPN.	USPAT	OR	OFF	2014/04/14 22:05
L35	1	(12/292131).APP.	US-PGPUB; USOCR	OR	OFF	2014/04/14 22:05
L36	8	("20060250376" "20080259044" "20090066670" "20090102813" "6288707" "7821274" "7821502" "8004499").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/14 22:05
L37	1	("8072436").URPN.	USPAT	OR	OFF	2014/04/14 22:06
L38	1	(12/499831).APP.	US-PGPUB; USOCR	OR	OFF	2014/04/14 22:06
L39	0	("2013/0168138").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	USPAT	OR	OFF	2014/04/14 22:09

L40	0	(13/808505).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	USPAT; USOCR	OR	OFF	2014/04/14 22:09
L41	0	("2010/0085322").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	USPAT	OR	OFF	2014/04/14 22:09
L42	0	(12/499831).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	USPAT; USOCR	OR	OFF	2014/04/14 22:09
L43	0	("2009/0143141").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	USPAT	OR	OFF	2014/04/14 22:09
L44	0	("2009/0128518").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	USPAT	OR	OFF	2014/04/14 22:09
L45	0	(12/292131).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	USPAT; USOCR	OR	OFF	2014/04/14 22:09
L46	0	("20010010566" "20060022910" "20100247870" "4999693" "5039620" "5164322").PN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/14 22:09
L47	0	(13/808505).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USOCR	OR	OFF	2014/04/14 22:09
L48	0	("20040217945" "20070008299" "20080143906" "7288716").PN. and	US-PGPUB; USPAT;	OR	OFF	2014/04/14 22:09

		touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	USOCR			
L49	0	("8077161").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	USPAT	OR	OFF	2014/04/14 22:09
L50	0	(12/292131).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USOCR	OR	OFF	2014/04/14 22:09
L51	0	("20060250376" "20080259044" "20090066670" "20090102813" "6288707" "7821274" "7821502" "8004499").PN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/14 22:09
L52	0	("8072436").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	USPAT	OR	OFF	2014/04/14 22:09
L53	0	(12/499831).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USOCR	OR	OFF	2014/04/14 22:09
S1	33854	display\$3 and touch\$3 same panel\$1 and substrate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/13 16:50
S2	7	display\$3 and touch\$3 same panel\$1 and substrate\$1 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/13 16:52
S3	67	display\$3 and touch\$3 same sens\$4 and detect\$3 same touch\$3 same	US-PGPUB; USPAT;	OR	OFF	2014/04/14 07:37

		external same terminal\$1 same outside same area\$1	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S4	75	display\$3 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:38
S5	15	display\$3 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:38
S6	15	display\$3 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:39
S7	5	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:49
S8	5	detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:53
S9	40	detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:54
S10	245	detect\$3 same touch\$3 same wir\$3 same terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:54
S11	52	detect\$3 same touch\$3 same wir\$3 near\$3 terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:54

S12	29	detect\$3 near3 touch\$3 same wir\$3 near3 terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:55
S13	3	detect\$3 near3 touch\$3 near3 wir\$3 near3 terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:55
S14	3	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 09:09
S15	3	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and black same metal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 09:10
S16	0	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and black same metal same wire\$1 same combin\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 09:11
S17	0	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and black same metal and wire\$1 same combin\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 09:11
S18	5660408	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and black same metal and wire\$1 same line\$1 combin\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 09:12
S19	0	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and black same metal and wire\$1 same line\$1 same combin\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 09:12
S20	0	detect\$3 near3 touch\$3 same wir\$3 near3 terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and strip\$4 same shape same metal same wir\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2014/04/14 12:13

			DERWENT; IBM_TDB			
S21	0	detect\$3 near3 touch\$3 same wir\$3 near3 terminal\$1 and strip\$4 same shape same metal same wir\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:14
S22	0	detect\$3 same touch\$3 same wir\$3 near3 terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and strip\$4 same shape same metal same wir\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:15
S23	17026	strip\$4 same shape same metal same wir\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:15
S24	278	strip\$4 same shape same metal same wir\$3 same connect\$4 same flexible same cable\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:16
S25	9	strip\$4 same shape same metal same wir\$3 same connect\$4 same flexible same cable\$1 same pattern\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:17
S26	0	strip\$4 near3 shape near3 metal near3 wir\$3 and connect\$4 same flexible same cable\$1 same pattern\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:19
S27	0	strip\$4 near3 shape near3 metal near3 wir\$3 and connect\$4 same flexible near3 cable\$1 same pattern\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:19
S28	142	strip\$4 near3 shape near3 metal near3 wir\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:20
S29	50	strip\$4 near3 shape near3 metal near3 wir\$3 same connect\$4	US-PGPUB; USPAT; USOCR;	OR	OFF	2014/04/14 12:20

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S30	0	strip\$4 near3 shape near3 metal near3 wir\$3 same connect\$4 and touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:20
S31	0	strip\$4 near3 shape near3 metal near3 wir\$3 same connect\$4 and "345"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:22
S32	3	stripe-shaped near3 metal near3 wir\$3 same connect\$4 and "345"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:23
S33	15	stripe-shaped near3 metal near3 wir\$3 same connect\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:23
S34	3	stripe-shaped near3 metal near3 wir\$3 same connect\$4 same flexible	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:23
S35	0	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and substrate\$1 and black same metal and plural\$3 same wir\$3 same group\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:25
S36	0	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and substrate\$1 and black same line\$1 and plural\$3 same wir\$3 same group\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:26
S37	0	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 and outside same area\$1 and substrate\$1 and black same line\$1 and plural\$3 same wir\$3 same group\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:27
S38	0	display\$3 and detect\$3 same touch\$3	US-PGPUB;	OR	OFF	2014/04/14

		and external same wir\$3 same terminal\$1 and outside same area\$1 and substrate\$1 and black same line\$1 and plural\$3 same wir\$3 same group\$1	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			12:27
S39	16	display\$3 and detect\$3 same touch\$3 and external same wir\$3 same terminal\$1 and outside same area\$1 and substrate\$1 and black same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:28
S40	0	stripe-shaped near3 metal near3 wir\$3 same connect\$4 and "345"/\$.ccls. and plural\$3 same wir\$3 same group\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:28
S41	3	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:34
S42	0	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and wir\$3 same group\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:34
S43	3	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and wir\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:35
S44	0	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and wir\$3 and group\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:36
S45	3	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and wir\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:36
S46	2	"20130328815"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2014/04/14 12:37

			IBM_TDB			
S47	0	"20130328815" and groups	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:38
S48	1	"20130328815" and first same substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:39
S49	1	"20130328815" and first same substrate same wir\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:39
S50	1	"20130328815" and first same substrate same wir\$4 and two	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:41
S51	0	"20130328815" and first same substrate same wir\$4 and two same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:43
S52	2	"20130328815" and metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:45
S53	1	"20130328815" and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:18
S54	1	"20130328815" and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:18
S55	1	"20130328815" and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2014/04/14 13:20

		same outside same area\$1 and metal same line\$1 same black	EPO; JPO; DERWENT; IBM_TDB			
S56	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:20
S57	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:20
S58	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:21
S59	0	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:22
S60	60414	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:23
S61	0	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:24
S62	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:24
S63	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:25
S64	22	first same substrate same wir\$4 and	US-PGPUB;	OR	OFF	2014/04/14

		display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			13:26
S65	1	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 same black and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:27
S66	0	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:28
S67	1	"20130328815" and first same substrate same wir\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:29
S68	1	"20130328815" and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:29
S69	0	"20130328815" and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:29
S70	1	"20130328815" and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:30
S71	1	"20130328815" and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:30
S72	3	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2014/04/14 13:30

		pad\$1	IBM_TDB			
S81	67	display\$3 and touch\$3 same sens\$4 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:35
S82	15	display\$3 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:35
S83	15	display\$3 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:35
S84	15	S83 AND ((G06F3/047 OR G06F3/04817 OR G06F3/04883 OR G06F3/044 OR G06F3/045 OR G06F2203/04103 OR G06F2203/04111 OR G06F3/041 OR G06F3/0488 OR G06F3/04886 OR G06F17/24 OR G06F1/1694 OR G06F2203/04803 OR G06F3/0481 OR G06F3/04845).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:38
S85	15	S82 AND ((G06F3/047 OR G06F3/04817 OR G06F3/04883 OR G06F3/044 OR G06F3/045 OR G06F2203/04103 OR G06F2203/04111 OR G06F3/041 OR G06F3/0488 OR G06F3/04886 OR G06F17/24 OR G06F1/1694 OR G06F2203/04803 OR G06F3/0481 OR G06F3/04845).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:38
S86	18	S81 AND ((G06F3/04883 OR G06F3/04817 OR G06F11/1675 OR G06F13/1689 OR G06F13/1694 OR G06F17/50 OR G06F19/321 OR G06F2217/16 OR G06F2217/80 OR G06F3/041 OR G06F8/71 OR G06F17/24 OR G06F1/1694 OR G06F2203/04803 OR G06F3/044 OR G06F3/0481 OR G06F3/04845 OR G06F3/0488 OR G06F3/04886).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:39
S87	5	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:40
S88	40	detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2014/04/14 13:40

			IBM_TDB			
S89	52	detect\$3 same touch\$3 same wir\$3 near\$3 terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:40
S90	52	S89 AND ((G06F3/044 OR G06F3/045 OR G06F3/041 OR G06F3/0412 OR G06F2203/04103 OR G06F3/016 OR G06F3/0416 OR G06F3/0418 OR G06F1/3203 OR G06F1/325 OR G06F2203/04111 OR G06F3/0488 OR G06F2203/04112 OR G06F2203/04113 OR G06F3/0202 OR G06F3/03547 OR G06F3/0383 OR G06F3/0421 OR G06F3/0425 OR G06F2203/0339 OR G06F2203/04102 OR G06F2203/04106 OR G06F2203/04107 OR G06F3/0338 OR G06F3/03543 OR G06F3/03545 OR G06F3/038 OR G06F3/0414 OR G06F9/4443).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:41
S91	38	S88 AND ((G06F3/044 OR G06F2203/04103 OR G06F3/045 OR G06F3/0416 OR G06F3/0412 OR G06F1/3203 OR G06F1/3231 OR G06F1/3259 OR G06F2203/04112 OR G06F3/03543 OR G06F3/0383 OR G06F2203/04111 OR G06F3/047 OR G06F3/04842 OR G06F3/0488 OR G06F2203/0339 OR G06F2203/04102 OR G06F2203/04107 OR G06F2203/04108 OR G06F3/01 OR G06F3/011 OR G06F3/014 OR G06F3/03547 OR G06F3/041 OR G06F3/0418 OR G06F3/0482).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:41
S92	5	S87 AND ((G06F3/045 OR G06F3/047 OR G06F2203/04103 OR G06F2203/04111 OR G06F3/044).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:41
S93	254290	touch\$3 same screen same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:44
S94	205	touch\$3 same screen same display\$3 and circular\$1 same polariz\$3 same plate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:44
S95	6	touch\$3 same screen same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2014/04/14 13:45

			EPO; JPO; DERWENT; IBM_TDB			
S97	0	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and oragnic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:46
S98	5	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:46
S99	0	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same luminescence	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:46
S100	1	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same light\$3 same emit\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:47
S101	4	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:48
S102	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:50
S103	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:50
S104	3	S103 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:50
S105	5	touch\$3 same screen same display\$3 and circular\$1 same polariz\$3 same	US-PGPUB; USPAT;	OR	OFF	2014/04/14 13:57

		plate\$1 same adher\$3 near\$3 touch\$3 near\$3 panel\$1	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S106	4	"20020047969"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:13
S107	1	"20020047969" and terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:13
S108	4	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:14
S109	5	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:15
S110	21849	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 touch\$3 same sens\$3 SAME line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:20
S111	0	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same sens\$3 SAME line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:20
S112	4	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 SAME line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:21
S113	4	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:22

S114	0	touch\$3 same screen same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adhar\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:27
S115	8	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adhar\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:28
S116	0	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adhar\$3 same touch\$3 same panel\$1 same oragnic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:29
S117	0	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adhar\$3 same touch\$3 same panel\$1 and oragnic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:29
S118	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adhar\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:29
S119	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adhar\$3 same touch\$3 same panel\$1 same display\$3 same screen\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:33
S120	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adhar\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 14:34
S121	3	S120 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 14:34
S132	456120	(G06F3/\$.cpc. and "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2014/04/14 14:40

			DERWENT; IBM_TDB			
S133	456120	(G06F3/\$.cpc. and "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 14:41
S134	4	(G06F3/\$.cpc. and "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and display\$3 and touch\$3 same sens\$4 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:41
S135	8	(G06F3/\$.cpc. and "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and display\$3 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:42
S136	29	(G06F3/\$.cpc. and "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:42
S137	878813	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 14:44
S138	878813	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:47
S139	15	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and display\$3 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:48
S140	8	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and display\$3 and touch\$3 same sens\$4 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:48
S141	3	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and strip\$4 same shape same metal same	US-PGPUB; USPAT; USOCR;	OR	OFF	2014/04/14 14:49

		wir\$3 same connect\$4 same flexible same cable\$1	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S142	0	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and strip\$4 same shape same metal same wir\$3 same connect\$4 same flexible same cable\$1 same pattern\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:49
S143	84	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same screen same display\$3 and circular\$1 same polariz\$3 same plate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:50
S144	4	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same screen same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:51
S145	6	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:52
S146	5	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:52
S147	3	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:53
S148	3	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:53
S152	0	touch\$3 same panel\$1 same display\$3 and organic same (electroluminescent or EL) same display\$3	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2014/04/14 15:43

			EPO; JPO; DERWENT; IBM_TDB			
S153	8360	touch\$3 same panel\$1 same display\$3 and organic same (electroluminescent or EL) same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 15:43
S154	4200	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 15:43
S155	93	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 15:44
S157	4	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 15:45
S158	0	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and connect\$3 same terminal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 15:46
S159	3	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and connect\$3 same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 15:46
S160	4	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same detect\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:01
S161	3	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:03
S162	303	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same	US-PGPUB; USPAT;	OR	OFF	2014/04/14 16:04

		display\$3 and touch\$3 same detect\$4 same coordinate\$1	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S163	2548073	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and touch\$3 same detect\$4 same coordinate\$1 same line\$1 same intersect or transvers\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:05
S164	4	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and touch\$3 same detect\$4 same coordinate\$1 same line\$1 same (intersect\$3 or transvers\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:05
S165	4	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and touch\$3 same detect\$4 same coordinate\$1 same line\$1 and detect\$4 same coordinate\$1 same line\$1 same (intersect\$3 or transvers\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:06
S166	4	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and touch\$3 same detect\$4 same coordinate\$1 and detect\$4 same coordinate\$1 same line\$1 same (intersect\$3 or transvers\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:07
S167	4	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and touch\$3 same detect\$4 same coordinate\$1 and detect\$4 same coordinate\$1 same line\$1 same (intersect\$3 or transvers\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:08
S168	129	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and touch\$3 same detect\$4 same coordinate\$1 same (line\$1 or electrode\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:10
S169	13	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and touch\$3 same detect\$4 same coordinate\$1 same (line\$1 or electrode\$1) same (intersect\$4 or transvers\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:10
S170	16	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and touch\$3 same (detect\$4 or sens\$3) same coordinate\$1 same (line\$1 or electrode\$1) same (intersect\$4 or transvers\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:12

S171	32	Ookawara same Takeshi and Matsudate same Noriharu	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:18
S172	4	Ookawara same Takeshi and Matsudate same Noriharu and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:19
S173	3	Ookawara same Takeshi and Matsudate same Noriharu and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:19
S174	3	Ookawara same Takeshi and Matsudate same Noriharu and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:20
S175	5	Ookawara same Takeshi and Matsudate same Noriharu and first same substrate same wir\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:20
S176	3	Ookawara same Takeshi and Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:21
S177	3	Ookawara same Takeshi and Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:21
S178	37	Ookawara same Takeshi	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:21
S179	131	Matsudate same Noriharu	US-PGPUB; USPAT; USOCR;	OR	OFF	2014/04/14 16:22

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S180	5	Ookawara same Takeshi and first same substrate same wir\$4 and display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:22
S181	3	Ookawara same Takeshi and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:22
S182	3	Ookawara same Takeshi and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:23
S183	4	Ookawara same Takeshi and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:24
S184	3	Ookawara same Takeshi and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:24
S185	3	Ookawara same Takeshi and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:24
S186	7	Matsudate same Noriharu and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:24
S187	3	Matsudate same Noriharu and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:25

S188	3	Matsudate same Noriharu and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:25
S189	10	Matsudate same Noriharu and first same substrate same wir\$4 and display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:26
S190	3	Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:26
S191	3	Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:27
S206	75	display\$3 and (detect\$3 same touch\$3) same (external same terminal\$1 same (outside same touch\$3 same detect\$4 same area\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:41
S207	75	display\$3 and (detect\$3 same touch\$3) same ((external same terminal\$1) same (outside same (touch\$3 same detect\$4 same area\$1)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:42
S208	8	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:46
S209	6	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:53

4/14/2014 10:14:52 PM

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CONFIRMATION NO. 1196

SERIAL NUMBER 13/966,857	FILING or 371(c) DATE 08/14/2013 RULE	CLASS 345	GROUP ART UNIT 2693	ATTORNEY DOCKET NO. 1497.50463CX1		
APPLICANTS Panasonic Liquid Crystal Display Co., Ltd., Hyogo-ken, JAPAN, Assignee (with 37 CFR 1.172 Interest); Japan Display Inc., Chiba, JAPAN, Assignee (with 37 CFR 1.172 Interest); INVENTORS Takeshi Ookawara, Mobara, JAPAN; Noriharu Matsudate, Kujukuri, JAPAN; ** CONTINUING DATA ***** This application is a CON of 12/649,414 12/30/2009 PAT 8519969 ** FOREIGN APPLICATIONS ***** JAPAN 2009-004874 01/13/2009 ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 08/28/2013						
Foreign Priority claimed ☒ Yes ☐ No 35 USC 119(a-d) conditions met ☒ Yes ☐ No Verified and /PRABODH M DHARIA/ Acknowledged Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY JAPAN	SHEETS DRAWINGS 10	TOTAL CLAIMS -5-15	INDEPENDENT CLAIMS 4-2
ADDRESS ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-3873 UNITED STATES						
TITLE Display Device With Touch Panel						
FILING FEE RECEIVED 1740	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit			

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:46
L3	3	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:47
L5	4	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:47
L7	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:47
L9	4	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:48
L11	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:48
L13	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:49

L15	3	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:49
L17	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:49
S1	147696	touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 13:20
S2	4685	touch\$3 same panel\$1 and first same electrode\$1 same form\$3 same substrate\$1 and second same electrode\$1 same form\$3 same substrate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 14:26
S3	0	touch\$3 same panel\$1 and first same electrode\$1 same form\$3 same substrate\$1 same metla same line\$1 and second same electrode\$1 same form\$3 same substrate\$1 same metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 14:27
S4	352	touch\$3 same panel\$1 and first same electrode\$1 same form\$3 same substrate\$1 same metal same line\$1 and second same electrode\$1 same form\$3 same substrate\$1 same metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 14:27
S5	142	touch\$3 same panel\$1 and first same electrode\$1 same form\$3 same substrate\$1 same metal near5 line\$1 and second same electrode\$1 same form\$3 same substrate\$1 same metal near5 line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 14:28
S6	129	touch\$3 near3 panel\$1 and first same electrode\$1 same form\$3 same substrate\$1 same metal near5 line\$1 and second same electrode\$1 same form\$3 same substrate\$1 same metal near5 line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 14:28
S7	88	touch\$3 near3 panel\$1 and first same electrode\$1 same form\$3 same substrate\$1 same metal near3 line\$1 and second same electrode\$1 same form\$3 same substrate\$1 same metal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2012/12/06 14:29

		near3 line\$1	DERWENT; IBM_TDB			
S8	56	touch\$3 near3 panel\$1 and first same electrode\$1 near3 form\$3 same substrate\$1 same metal near3 line\$1 and second same electrode\$1 near3 form\$3 same substrate\$1 same metal near3 line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 14:30
S9	10	touch\$3 near3 panel\$1 and first same touch\$3 same sens\$3 same electrode\$1 near3 form\$3 same substrate\$1 same metal near3 line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 14:40
S10	2	touch\$3 near3 panel\$1 and (first same touch\$3 same sens\$3 same electrode\$1) near3 form\$3 same (first same substrate\$1) same (first same metal near3 line\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 14:59
S11	1	(12/649414).APP.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 16:38
S12	2	"20100177055"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 16:38
S13	155263	touch\$3 same screen\$1 same (compris\$3 or includ\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 16:40
S14	119192	touch\$3 same screen\$1 same display\$3 same (compris\$3 or includ\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 16:41
S15	470	touch\$3 same screen\$1 same display\$3 same (compris\$3 or includ\$3) same (first and second) same substrate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 16:42
S16	5	touch\$3 same screen\$1 same display\$3 same (compris\$3 or includ\$3) same (first and second) same substrate\$1	US-PGPUB; USPAT; USOCR;	OR	OFF	2012/12/06 16:42

		same resin	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S17	2	touch\$3 same screen\$1 same display\$3 same (compris\$3 or includ\$3) same (first and second) same substrate\$1 same resin and metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 16:43
S18	47	touch\$3 same screen\$1 same display\$3 same (compris\$3 or includ\$3) same (first and second) same substrate\$1 and resin and metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 16:43
S19	41	touch\$3 same screen\$1 same display\$3 same (compris\$3 or includ\$3) same (first and second) same substrate\$1 and resin and metal same line\$1 and electrode\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 16:44
S20	16	touch\$3 same screen\$1 same display\$3 same (compris\$3 or includ\$3) same (first and second) same substrate\$1 and resin and metal same line\$1 same black and electrode\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 16:44
S21	34	touch\$3 same screen\$1 same display\$3 same (compris\$3 or includ\$3) and (first and second) same substrate\$1 and resin and metal same line\$1 same black and electrode\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 16:46
S22	20	touch\$3 same screen\$1 same display\$3 same (compris\$3 or includ\$3) and (first and second) same substrate\$1 and resin and metal same line\$1 same black and electrode\$1 and gap\$1 and spacer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 16:48
S23	50	touch\$3 same screen\$1 and display\$3 same (compris\$3 or includ\$3) and (first and second) same substrate\$1 and resin and metal same line\$1 same black and electrode\$1 and gap\$1 and spacer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 16:48
S24	21	display\$3 and touch\$3 same screen\$1 same (compris\$3 or includ\$3) and (first and second) same substrate\$1 and resin and metal same line\$1 same black and electrode\$1 and gap\$1 and spacer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 16:48
S25	21	display\$3 and touch\$3 same screen\$1	US-PGPUB;	OR	OFF	2012/12/06

		same (compris\$3 or includ\$3) and (first and second) same substrate\$1 and resin and metal same line\$1 same black and electrode\$1 and gap\$1 and spacer\$1	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			22:02
S26	1	display\$3 and touch\$3 same screen\$1 same (compris\$3 or includ\$3) and (first and second) same substrate\$1 and resin and metal near5 line\$1 near5 black and electrode\$1 and gap\$1 and spacer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:05
S27	3	touch\$3 same screen\$1 and (first and second) same substrate\$1 and resin and metal near5 line\$1 near5 black and electrode\$1 and gap\$1 and spacer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:05
S28	3	touch\$3 same screen\$1 and resin and metal near5 line\$1 near5 black and electrode\$1 and gap\$1 and spacer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:08
S29	3	touch\$3 same screen\$1 and metal near3 line\$1 near3 black and electrode\$1 and gap\$1 and spacer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:10
S30	0	touch\$3 same screen\$1 and touch\$3 same sens\$3 same metal near3 line\$1 near3 black and electrode\$1 and gap\$1 and spacer\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:10
S31	8	touch\$3 same screen\$1 and touch\$3 same sens\$3 same metal near3 line\$1 near3 black and electrode\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:11
S32	19	touch\$3 same screen\$1 and metal near3 line\$1 near3 black and electrode\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:13
S33	19	touch\$3 same screen\$1 and metal near3 line\$1 near3 black and electrode\$1 and metal near3 line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2012/12/06 22:16

			IBM_TDB			
S34	23	touch\$3 same (screen\$1 or panel\$1 or pad\$1) and metal near3 line\$1 near3 black and electrode\$1 and metal near3 line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:23
S35	0	touch\$3 same (screen\$1 or panel\$1 or pad\$1) and detect\$3 same coordinate\$1 same metal near3 line\$1 near3 black and electrode\$1 and metal near3 line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:24
S36	0	touch\$3 same (screen\$1 or panel\$1 or pad\$1) and detect\$3 same coordinate\$1 same metal near3 line\$1 near3 black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:25
S37	2	touch\$3 same (screen\$1 or panel\$1 or pad\$1) and detect\$3 same coordinate\$1 same metal near3 line\$1 and metal near3 line\$1 near3 black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:25
S38	9	touch\$3 same (screen\$1 or panel\$1 or pad\$1) and detect\$3 same coordinate\$1 same metal near3 line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:26
S39	6	touch\$3 same (screen\$1 or panel\$1 or pad\$1) and detect\$3 near3 coordinate\$1 same metal near3 line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:28
S40	3	touch\$3 same (screen\$1 or panel\$1 or pad\$1) and detect\$3 near3 coordinate\$1 near3 metal near3 (line\$1 or wir\$3 or electrode\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:29
S41	6	detect\$3 near3 coordinate\$1 near3 metal near3 (line\$1 or wir\$3 or electrode\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:40
S42	7	touch\$3 same (screen\$1 or panel\$1 or pad\$1) and coordinate\$1 near3 metal near3 (line\$1 or wir\$3 or electrode\$1)	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2012/12/06 22:42

			EPO; JPO; DERWENT; IBM_TDB			
S43	5	touch\$3 same (screen\$1 or panel\$1 or pad\$1) same resist\$4 and coordinate\$1 near\$3 metal near\$3 (line\$1 or wir\$3 or electrode\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:43
S44	0	touch\$3 same (screen\$1 or panel\$1 or pad\$1) same resist\$4 and detect\$3 near\$3 coordinate\$1 and metal near\$3 (line\$1 or wir\$3 or electrode\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:57
S45	7	touch\$3 same (screen\$1 or panel\$1 or pad\$1) same resist\$4 and detect\$3 near\$3 coordinate\$1 and metal near\$3 (line\$1 or wir\$3 or electrode\$1) same matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 22:57
S46	3	touch\$3 same (screen\$1 or panel\$1 or pad\$1) same resist\$4 and detect\$3 near\$3 coordinate\$1 and metal near\$3 (line\$1 or electrode\$1) same matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 23:05
S47	581	touch\$3 same (screen\$1 or panel\$1 or pad\$1) same resist\$4 same (compris\$3 or includ\$3) same (first and second) same substrate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 23:10
S48	30	touch\$3 same (screen\$1 or panel\$1 or pad\$1) same resist\$4 same (compris\$3 or includ\$3) same (first and second) same substrate\$1 same metal same electrode\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/06 23:12
S49	23	touch\$3 same (screen\$1 or panel\$1 or pad\$1) same resist\$4 same (compris\$3 or includ\$3) same (first and second) same substrate\$1 same metal same electrode\$1 and matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 08:31
S50	6	touch\$3 same (screen\$1 or panel\$1 or pad\$1) same resist\$4 same (compris\$3 or includ\$3) same (first and second) same substrate\$1 same metal same electrode\$1 and matrix and black same metal same electrode\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 08:34
S51	17	touch\$3 same (screen\$1 or panel\$1 or pad\$1) same resist\$4 same (compris\$3	US-PGPUB; USPAT;	OR	OFF	2012/12/07 09:37

		or includ\$3) same (first and second) same substrate\$1 same metal same electrode\$1 and matrix and black	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S52	17	touch\$3 same (screen\$1 or panel\$1 or pad\$1) same resist\$4 same (compris\$3 or includ\$3) same (first and second) same substrate\$1 same metal same electrode\$1 and matrix and black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 11:46
S53	3	"20090167721"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 12:08
S54	0	"20090167721" and black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 12:10
S55	0	"20090167721" and resin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 12:10
S56	2	"20050046622"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 12:10
S57	1	"20050046622" and resin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 12:10
S58	0	"20050046622" and resin and black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 12:12
S59	13	touch\$3 same (screen\$1 or panel\$1 or pad\$1) same resist\$4 same (compris\$3 or includ\$3) same (first and second) same substrate\$1 same metal same electrode\$1 and matrix and black and resin	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 12:12

S60	1	touch\$3 same (screen\$1 or panel\$1 or pad\$1) same resist\$4 same (compris\$3 or includ\$3) same (first and second) same substrate\$1 same metal same electrode\$1 and matrix and black and resin same polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 12:52
S61	1	"20100177055" and resin same polariz\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 12:53
S62	11	touch\$3 same (screen\$1 or panel\$1 or pad\$1) same resist\$4 same (compris\$3 or includ\$3) same (first and second) same substrate\$1 same metal same electrode\$1 and matrix and black and resin and polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 12:54
S63	766	touch\$3 same (screen\$1 or panel\$1 or pad\$1) same resist\$4 and resin and polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 13:09
S64	26	touch\$3 same (screen\$1 or panel\$1 or pad\$1) same resist\$4 and resin near3 polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 13:10
S65	1	touch\$3 same (screen\$1 or panel\$1 or pad\$1) same resist\$4 and resin near3 circular same polariz\$3 same plate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 13:12
S66	2	display\$3 and resin near3 circular near3 polariz\$3 near3 plate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 13:12
S67	1	display\$3 and resin near3 constitut\$3 near3 circular near3 polariz\$3 near3 plate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 13:18
S68	1	display\$3 and resin near5 constitut\$3 near5 circular near5 polariz\$3 near5 plate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2012/12/07 13:19

			DERWENT; IBM_TDB			
S69	1	display\$3 and resin near5 constitut\$3 near5 circular near5 polariz\$3 near5 plate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 13:19
S70	28	display\$3 and resin near5 constitut\$3 near5 polariz\$3 near5 plate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 13:19
S71	4	display\$3 and resin near5 constitut\$3 near5 polariz\$3 near5 plate\$1 and circular same polariz\$3 same plate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 13:20
S72	1	(12/238614).APP.	US-PGPUB; USOCR	OR	OFF	2012/12/07 13:34
S73	2	"6814452".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 16:47
S74	2	"6814452".pn. and black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/12/07 16:47
S75	1	display\$3 and touch\$3 same (screen\$1 or panel\$1) same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and matrix and resin and spacer and black same metal\$3 and polariz\$3 and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3 and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same polariz\$4 and	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:24

		touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 and matrix and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3 and black same metal\$3 and metal\$3 same electrode\$1 and touch\$3 same panel\$1 same display\$3 and (first and second) same resin same film\$3 same adher\$3 same polariz\$3 same plate\$1 same (first and second) same substrate\$1 same display\$3 same panel\$1				
S77	3	"20090167721"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:32
S78	2	"20100177055"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:32
S79	2	"8,125,466".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:32
S80	2	"20050046622"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:32
S81	2	"6,078,274".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:33
S82	2	"20080030483"	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2013/04/19 13:33

			EPO; JPO; DERWENT; IBM_TDB			
S83	3	"20050190338"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:33
S84	3	"20060274049"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:34
S85	2	"6,814,452".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:34
S86	2	("2009/0167721").URPN.	USPAT	OR	OFF	2013/04/19 13:35
S87	1	(12/338902).APP.	USPAT; USOCR	OR	OFF	2013/04/19 13:35
S88	5	("20050126831" "20060001655" "20060097991" "20080314626" "20090096761").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/04/19 13:35
S89	1	("8125466").URPN.	USPAT	OR	OFF	2013/04/19 13:35
S90	0	("2010/0177055").URPN.	USPAT	OR	OFF	2013/04/19 13:35
S91	0	(12/649414).APP.	USPAT; USOCR	OR	OFF	2013/04/19 13:35
S92	5	("20050126831" "20060001655" "20060097991" "20080314626" "20090096761").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/04/19 13:36
S93	1	("8125466").URPN.	USPAT	OR	OFF	2013/04/19 13:36
S94	1	(12/338902).APP.	US-PGPUB; USOCR	OR	OFF	2013/04/19 13:36
S95	2	("2009/0167721").URPN.	USPAT	OR	OFF	2013/04/19 13:36
S96	3	("2005/0046622").URPN.	USPAT	OR	OFF	2013/04/19 13:36
S97	0	(10/922916).APP.	USPAT; USOCR	OR	OFF	2013/04/19 13:36
S98	4	("4553820" "5159159" "5486485" "5847690").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/04/19 13:36
S99	17	("6078274").URPN.	USPAT	OR	OFF	2013/04/19 13:36
S100	0	(08/996550).APP.	US-PGPUB; USOCR	OR	OFF	2013/04/19 13:36

S101	1	("2008/0030483").URPN.	USPAT	OR	OFF	2013/04/19 13:37
S102	0	(11/888933).APP.	USPAT; USOCR	OR	OFF	2013/04/19 13:37
S103	10	("2005/0190338").URPN.	USPAT	OR	OFF	2013/04/19 13:37
S104	1	(10/852753).APP.	USPAT; USOCR	OR	OFF	2013/04/19 13:37
S105	8	("20040114087" "20040183991" "20040201815" "20050046779" "6259505" "6507385" "6795141" "7142277").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/04/19 13:37
S106	2	("7492436").URPN.	USPAT	OR	OFF	2013/04/19 13:37
S107	61	("2006/0274049").URPN.	USPAT	OR	OFF	2013/04/19 13:38
S108	1	(11/143562).APP.	USPAT; USOCR	OR	OFF	2013/04/19 13:38
S109	53	("20010037935" "20030008135" "20030143453" "20030158323" "20030170492" "20030193042" "20040065970" "20040144975" "20040219093" "20040265550" "20050110766" "20050209392" "20060118768" "4070189" "4731408" "4987042" "5093439" "5300575" "5312681" "5354613" "5370981" "5372924" "5391472" "5403467" "5443944" "5561030" "5575898" "5576162" "5665498" "5674654" "5716550" "5738934" "5766515" "5828432" "5959708" "5976274" "5976284" "6045977" "6404120" "6426134" "6455021" "6469267" "6639637" "6645455" "6683783" "6707517" "6737293" "7067756" "7180108" "7230198" "7361927" "7378040" "7397466").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/04/19 13:38
S110	18	("7645497").URPN.	USPAT	OR	OFF	2013/04/19 13:38
S111	1	("6211935").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/04/19 13:38
S112	1	(10/239752).APP.	US-PGPUB; USOCR	OR	OFF	2013/04/19 13:38
S113	3	("2003/0090803").URPN.	USPAT	OR	OFF	2013/04/19 13:38
S114	2	("6814452").URPN.	USPAT	OR	OFF	2013/04/19 13:39
S115	1	("6211935").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/04/19 13:39
S116	1	black same metal\$3 and metal\$3 same electrode\$1 and touch\$3 same panel\$1 same display\$3 and (first and second) same resin same film\$3 same adher\$3 same polariz\$3 same plate\$1 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2013/04/19 13:40

		(first and second) same substrate\$1 same display\$3 same panel\$1	DERWENT; IBM_TDB			
S117	1	touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:41
S118	1	touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 and matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:41
S119	6	touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same polariz\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:41
S120	1	touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:42
S121	30	display\$3 and touch\$3 same (screen\$1 or panel\$1) same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and matrix and resin and spacer and black same metal\$3 and polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:42
S122	2	"6814452".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:42
S123	3	"20090167721"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:42
S124	1	("6211935").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/04/19 13:43
S125	2	("6814452").URPN.	USPAT	OR	OFF	2013/04/19 13:43

S126	1	(10/239752).APP.	US-PGPUB; USOCR	OR	OFF	2013/04/19 13:43
S127	3	("2003/0090803").URPN.	USPAT	OR	OFF	2013/04/19 13:43
S128	2	("2009/0167721").URPN.	USPAT	OR	OFF	2013/04/19 13:43
S129	1	(12/338902).APP.	USPAT; USOCR	OR	OFF	2013/04/19 13:43
S130	5	("20050126831" "20060001655" "20060097991" "20080314626" "20090096761").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2013/04/19 13:43
S131	1	("8125466").URPN.	USPAT	OR	OFF	2013/04/19 13:44
S132	1	"20100177055" and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:49
S133	0	("8125466").URPN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT	OR	OFF	2013/04/19 13:49
S134	0	("20050126831" "20060001655" "20060097991" "20080314626" "20090096761").PN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2013/04/19 13:49
S135	0	(12/338902).APP. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT; USOCR	OR	OFF	2013/04/19 13:49
S136	0	("20050126831" "20060001655" "20060097991" "20080314626" "20090096761").PN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2013/04/19 13:49

		same adher\$4 same first same substrate\$1 same polariz\$3				
S137	0	("8125466").URPN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT	OR	OFF	2013/04/19 13:49
S138	0	(12/338902).APP. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USOCR	OR	OFF	2013/04/19 13:49
S139	0	("2009/0167721").URPN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT	OR	OFF	2013/04/19 13:49
S140	0	("2005/0046622").URPN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT	OR	OFF	2013/04/19 13:49
S141	0	("4553820" "5159159" "5486485" "5847690").PN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2013/04/19 13:49
S142	0	("6078274").URPN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT	OR	OFF	2013/04/19 13:49
S143	0	("2008/0030483").URPN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1	USPAT	OR	OFF	2013/04/19 13:49

		and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3				
S144	0	(10/852753).APP. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT; USOCR	OR	OFF	2013/04/19 13:49
S145	0	("2005/0190338").URPN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT	OR	OFF	2013/04/19 13:49
S146	0	("20040114087" "20040183991" "20040201815" "20050046779" "6259505" "6507385" "6795141" "7142277").PN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2013/04/19 13:49
S147	0	("2006/0274049").URPN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT	OR	OFF	2013/04/19 13:49
S148	0	("7492436").URPN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT	OR	OFF	2013/04/19 13:49
S149	0	(11/143562).APP. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT; USOCR	OR	OFF	2013/04/19 13:49
S150	0	("20010037935" "20030008135"	US-PGPUB;	OR	OFF	2013/04/19

		"20030143453" "20030158323" "20030170492" "20030193042" "20040065970" "20040144975" "20040219093" "20040265550" "20050110766" "20050209392" "20060118768" "4070189" "4731408" "4987042" "5093439" "5300575" "5312681" "5354613" "5370981" "5372924" "5391472" "5403467" "5443944" "5561030" "5575898" "5576162" "5665498" "5674654" "5716550" "5738934" "5766515" "5828432" "5959708" "5976274" "5976284" "6045977" "6404120" "6426134" "6455021" "6469267" "6639637" "6645455" "6683783" "6707517" "6737293" "7067756" "7180108" "7230198" "7361927" "7378040" "7397466").PN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT; USOCR			13:49
S151	0	("7645497").URPN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT	OR	OFF	2013/04/19 13:49
S152	0	("6211935").PN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2013/04/19 13:49
S153	0	(10/239752).APP. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USOCR	OR	OFF	2013/04/19 13:49
S154	0	("2003/0090803").URPN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same	USPAT	OR	OFF	2013/04/19 13:49

		substrate\$1 same polariz\$3				
S155	0	("6814452").URPN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT	OR	OFF	2013/04/19 13:49
S156	0	"6814452".pn. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:50
S157	0	("6211935").PN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2013/04/19 13:50
S158	0	"20090167721" and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:50
S159	0	("6211935").PN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2013/04/19 13:50
S160	0	("6814452").URPN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT	OR	OFF	2013/04/19 13:50
S161	0	(10/239752).APP. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1	US-PGPUB; USOCR	OR	OFF	2013/04/19 13:50

		same adher\$4 same first same substrate\$1 same polariz\$3				
S162	0	("2009/0167721").URPN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT	OR	OFF	2013/04/19 13:50
S163	0	(12/338902).APP. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT; USOCR	OR	OFF	2013/04/19 13:50
S164	0	("20050126831" "20060001655" "20060097991" "20080314626" "20090096761").PN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2013/04/19 13:50
S165	0	("8125466").URPN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT	OR	OFF	2013/04/19 13:50
S166	0	"20090167721" and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:50
S167	0	"8,125,466".pn. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:50
S168	0	"6,078,274".pn. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2013/04/19 13:50

		substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	EPO; JPO; DERWENT; IBM_TDB			
S169	0	"20050046622" and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:50
S170	0	"20080030483" and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:50
S171	0	"20050190338" and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:50
S172	0	"20060274049" and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:50
S173	0	"6,814,452".pn. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/04/19 13:50
S174	0	("2009/0167721").URPN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3	USPAT	OR	OFF	2013/04/19 13:50
S175	0	("2003/0090803").URPN. and touch\$3 same screen\$1 same display\$3 and touch\$3 same screen\$1 same (first and	USPAT	OR	OFF	2013/04/19 13:50

		second) same substrate\$1 and (first same substrate\$1 same electrode\$1 and second same substrate\$1 same electrode\$1) and resin same film\$1 same adher\$4 same first same substrate\$1 same polariz\$3				
S182	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1 and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4 and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1 and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1 and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3 and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1 and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1 and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:42

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	12	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:23
L2	0	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same touch\$3 same detect\$3 same metal same line\$1 and metal same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:23
L3	0	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same touch\$3 same detect\$3 same metal same line\$1 and touch\$3 same detect\$3 same metal same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:25
L4	1	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and touch\$3 same detect\$3 same metal same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:25
L5	3	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:26
L7	3	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 and polariz\$3 same plate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:27
L9	3	display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:29

L11	0	"20100033443" and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L12	0	"200510190338" and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L13	0	"20090086318" and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L14	0	"20080030483" and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L15	0	"20050046622" and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L16	0	"20090167721" and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L17	0	"20100085326" and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L18	0	"20110069036" and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L19	0	"20030090803" and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2014/04/15 10:36

		metal same line\$1 same combin\$4	DERWENT; IBM_TDB			
L20	0	"20060274047" and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L21	0	"20010043291" and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L22	0	"20060274049" and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L23	0	"6,078,274".pn. and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L24	0	"6,814,452".pn. and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L25	0	"6,814,452".pn. and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L26	0	"6,814,452".pn. and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L27	0	"7,906,216".pn. and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L28	0	"7,593,004".pn. and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1	US-PGPUB; USPAT; USOCR;	OR	OFF	2014/04/15 10:36

		and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	FPRS; EPO; JPO; DERWENT; IBM_TDB			
L29	0	"7,535,462".pn. and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L30	0	"6,552,718".pn. and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L31	0	"8,228,453".pn. and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
L32	0	"2002342014" and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal\$3 same line\$1 same black and touch\$3 same detect\$3 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 10:36
S1	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1 and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4 and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1 and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 20:58

		and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3 and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1 and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1 and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1				
S2	32	Ookawara same Takeshi and Matsudate same Noriharu	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 20:59
S3	878813	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 20:59
S4	131	Matsudate same Noriharu	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 20:59
S5	37	Ookawara same Takeshi	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 20:59
S6	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:00
S7	3	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3	US-PGPUB; USPAT; USOCR;	OR	OFF	2014/04/14 21:01

		same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S8	4	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:01
S9	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:02
S10	4	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:03
S11	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:03
S12	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:03
S13	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:04
S14	3	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:04
S15	3	(G06F3/\$.cpc. or "345"/\$.cls. or "438"/\$.cls. or "178"/\$.cls.) and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:10

		substrate\$1 same wir\$3 same metal same line\$1				
S16	3	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:10
S17	4	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:10
S18	3	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:10
S19	4	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:10
S20	3	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:10
S21	3	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:10
S22	3	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:10
S23	3	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and first	US-PGPUB; USPAT;	OR	OFF	2014/04/14 21:10

		same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S24	3	(G06F3/\$.cpc. or "345"/\$.cls. or "438"/\$.cls. or "178"/\$.cls.) and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:11
S25	3	Ookawara same Takeshi and Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:11
S26	3	Ookawara same Takeshi and Matsudate same Noriharu and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:11
S27	3	Ookawara same Takeshi and Matsudate same Noriharu and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:11
S28	3	Ookawara same Takeshi and Matsudate same Noriharu and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:11
S29	3	Ookawara same Takeshi and Matsudate same Noriharu and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:11
S30	3	Ookawara same Takeshi and Matsudate same Noriharu and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:11
S31	3	Ookawara same Takeshi and Matsudate same Noriharu and first same substrate	US-PGPUB; USPAT;	OR	OFF	2014/04/14 21:11

		same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S32	3	Ookawara same Takeshi and Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:11
S33	3	Ookawara same Takeshi and Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:12
S34	3	Ookawara same Takeshi and Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:12
S65	3	Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:19
S66	3	Ookawara same Takeshi and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:19
S67	3	Matsudate same Noriharu and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:19
S68	3	Ookawara same Takeshi and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:19

S69	3	Matsudate same Noriharu and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:19
S70	3	Ookawara same Takeshi and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:19
S71	3	Ookawara same Takeshi and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:19
S72	3	Matsudate same Noriharu and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:19
S73	3	Matsudate same Noriharu and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:19
S74	3	Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:20
S75	3	Ookawara same Takeshi and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:20
S76	3	Ookawara same Takeshi and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:20
S77	3	Matsudate same Noriharu and touch\$3	US-PGPUB;	OR	OFF	2014/04/14

		same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			21:20
S78	3	Ookawara same Takeshi and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:20
S79	3	Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:20
S80	3	Ookawara same Takeshi and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:20
S81	3	Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:20
S82	3	Ookawara same Takeshi and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:20
S83	3	Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:21
S84	3	Ookawara same Takeshi and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:21
S105	0	"20100033443" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2014/04/14 21:29

			IBM_TDB			
S106	0	"20090086318" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S107	0	"20080030483" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S108	0	"200510190338" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S109	0	"20050046622" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S110	0	"20090167721" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S111	0	"20100085326" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S112	0	"20110069036" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S113	0	"20030090803" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S114	0	"20060274047" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2014/04/14 21:31

		same organic same EL same display\$3	EPO; JPO; DERWENT; IBM_TDB			
S115	0	"20010043291" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S116	0	"20060274049" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S117	0	"6,078,274".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:34
S118	0	"6,814,452".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:34
S119	0	"6,814,452".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:35
S120	0	"7,906,216".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:35
S121	0	"7,593,004".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:35
S122	0	"7,535,462".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:35
S123	0	"6,552,718".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1	US-PGPUB; USPAT;	OR	OFF	2014/04/14 21:35

		same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S124	0	"8,228,453".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:35
S125	0	"7,868,957".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:35
S126	0	"8,125,466".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:35
S127	8	"2002342014"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:35
S128	0	"2002342014" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:36
S129	6	touch\$3 same screen same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 22:16
S130	8	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 22:16
S131	22	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 22:16

S132	0	("2013/0328815").URPN.	USPAT	OR	OFF	2014/04/15 07:35
S133	0	(13/966857).APP.	USPAT; USOCR	OR	OFF	2014/04/15 07:35
S134	1	("2010/0177055").URPN.	USPAT	OR	OFF	2014/04/15 07:35
S135	1	(12/649414).APP.	USPAT; USOCR	OR	OFF	2014/04/15 07:36
S136	7	("2005/0046622").URPN.	USPAT	OR	OFF	2014/04/15 07:37
S137	0	(10/922916).APP.	USPAT; USOCR	OR	OFF	2014/04/15 07:37
S138	2	("2002/0047969").URPN.	USPAT	OR	OFF	2014/04/15 07:37
S139	1	(09/929067).APP.	USPAT; USOCR	OR	OFF	2014/04/15 07:37
S140	21	("20010043291" "20030090803" "20050046622" "20050190338" "20060274047" "20060274049" "20080030483" "20090086318" "20090167721" "20100033443" "20100085326" "20110069036" "6078274" "6552718" "6814452" "7535462" "7593004" "7868957" "7906216" "8125466" "8228453").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 07:37
S141	0	("8519969").URPN.	USPAT	OR	OFF	2014/04/15 07:37
S142	1	(12/649414).APP.	US-PGPUB; USOCR	OR	OFF	2014/04/15 07:37
S143	8	("5657140" "5743980" "5929946" "5999240" "6020945" "6133980" "6147741" "6208396").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 07:37
S144	2	("6738117").URPN.	USPAT	OR	OFF	2014/04/15 07:41
S145	1	(09/929067).APP.	US-PGPUB; USOCR	OR	OFF	2014/04/15 07:41
S146	0	("2010/0177055").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 07:49
S147	1	(12/649414).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT; USOCR	OR	OFF	2014/04/15 07:49
S148	1	("2005/0046622").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 07:49
S149	0	("2002/0047969").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same	USPAT	OR	OFF	2014/04/15 07:49

		panel\$1 same organic same EL same display\$3				
S150	0	(09/929067).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT; USOCR	OR	OFF	2014/04/15 07:49
S151	0	("20010043291" "20030090803" "20050046622" "20050190338" "20060274047" "20060274049" "20080030483" "20090086318" "20090167721" "20100033443" "20100085326" "20110069036" "6078274" "6552718" "6814452" "7535462" "7593004" "7868957" "7906216" "8125466" "8228453").PN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 07:49
S152	1	(12/649414).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USOCR	OR	OFF	2014/04/15 07:49
S153	0	("5657140" "5743980" "5929946" "5999240" "6020945" "6133980" "6147741" "6208396").PN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 07:49
S154	0	("6738117").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 07:49
S155	0	(09/929067).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USOCR	OR	OFF	2014/04/15 07:49
S156	0	("2013/0328815").URPN.	USPAT	OR	OFF	2014/04/15 08:41
S157	0	(13/966857).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:41
S158	0	("2013/0057495").URPN.	USPAT	OR	OFF	2014/04/15 08:41
S159	0	(13/600244).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:41
S160	1	("2010/0177055").URPN.	USPAT	OR	OFF	2014/04/15 08:41
S161	1	(12/649414).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:41
S162	7	("2005/0046622").URPN.	USPAT	OR	OFF	2014/04/15 08:41
S163	0	(10/922916).APP.	USPAT;	OR	OFF	2014/04/15

			USOCR			08:41
S164	2	("2002/0047969").URPN.	USPAT	OR	OFF	2014/04/15 08:42
S165	1	(09/929067).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:42
S166	21	("20010043291" "20030090803" "20050046622" "20050190338" "20060274047" "20060274049" "20080030483" "20090086318" "20090167721" "20100033443" "20100085326" "20110069036" "6078274" "6552718" "6814452" "7535462" "7593004" "7868957" "7906216" "8125466" "8228453").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:42
S167	0	("8519969").URPN.	USPAT	OR	OFF	2014/04/15 08:42
S168	1	(12/649414).APP.	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:42
S169	8	("5657140" "5743980" "5929946" "5999240" "6020945" "6133980" "6147741" "6208396").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:42
S170	2	("6738117").URPN.	USPAT	OR	OFF	2014/04/15 08:42
S171	1	(09/929067).APP.	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:42
S172	0	("2010/0177055").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 08:43
S173	1	(12/649414).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT; USOCR	OR	OFF	2014/04/15 08:44
S174	1	("2005/0046622").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 08:44
S175	0	("2002/0047969").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 08:44
S176	0	(09/929067).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT; USOCR	OR	OFF	2014/04/15 08:44
S177	0	("20010043291" "20030090803" "20050046622" "20050190338" "20060274047" "20060274049" "20080030483" "20090086318" "20090167721" "20100033443"	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:44

		"20100085326" "20110069036" "6078274" "6552718" "6814452" "7535462" "7593004" "7868957" "7906216" "8125466" "8228453").PN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3				
S178	1	(12/649414).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:44
S179	0	("5657140" "5743980" "5929946" "5999240" "6020945" "6133980" "6147741" "6208396").PN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:44
S180	0	("6738117").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 08:44
S181	0	(09/929067).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:44
S182	0	("2014/0098307").URPN.	USPAT	OR	OFF	2014/04/15 08:45
S183	0	(14/103448).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:45
S184	0	("2014/0000943").URPN.	USPAT	OR	OFF	2014/04/15 08:46
S185	0	(14/004557).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:46
S186	0	("2013/0328815").URPN.	USPAT	OR	OFF	2014/04/15 08:46
S187	0	(13/966857).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:46
S188	0	("2013/0044384").URPN.	USPAT	OR	OFF	2014/04/15 08:46
S189	0	(13/305615).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:46
S190	0	("2012/0212449").URPN.	USPAT	OR	OFF	2014/04/15 08:46
S191	0	(13/458240).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:46
S192	2	("2012/0118614").URPN.	USPAT	OR	OFF	2014/04/15 08:46
S193	1	(13/384199).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:46
S194	1	("2012/0105370").URPN.	USPAT	OR	OFF	2014/04/15 08:46

S195	0	(13/336093).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:46
S196	0	("2012/0086019").URPN.	USPAT	OR	OFF	2014/04/15 08:47
S197	0	(13/378154).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:47
S198	11	("2010/0312625").URPN.	USPAT	OR	OFF	2014/04/15 08:47
S199	1	(12/479976).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:47
S200	6	("2010/0311502").URPN.	USPAT	OR	OFF	2014/04/15 08:47
S201	1	(12/479997).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:47
S202	10	("2010/0311494").URPN.	USPAT	OR	OFF	2014/04/15 08:47
S203	0	(12/479954).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:47
S204	7	("2010/0311489").URPN.	USPAT	OR	OFF	2014/04/15 08:47
S205	1	(12/479968).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:47
S206	1	("2010/0177055").URPN.	USPAT	OR	OFF	2014/04/15 08:48
S207	1	(12/649414).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:48
S208	4	("2008/0314626").URPN.	USPAT	OR	OFF	2014/04/15 08:48
S209	1	(12/194839).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:48
S210	3	("2007/0289768").URPN.	USPAT	OR	OFF	2014/04/15 08:48
S211	1	(11/609220).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:48
S212	62	("20030048254" "20040248073" "20050184993" "20050189139" "20070111014" "20070191074" "20070191075" "20070243456" "20070259716" "20070259717" "20080051043" "20080063931" "20080067247" "20080076505" "20080076506" "20080102957" "20080113772" "20080169910" "20080203903" "20080234024" "20080246026" "20080252570" "20080265754" "20080265759" "20080268934" "20080280682" "20080284693" "20080295327" "20080297448" "20080303782" "20080309867" "20090001380" "20090009396" "20090009496" "20090058361" "20090087024" "20090093300" "20090103161" "20100311488" "20100311489" "20100311490" "20100311493" "20100311494" "20100311502" "4900903" "5823873" "6007066")	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:48

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S215	5	("20060097991" "20090002337" "20100156840" "20110102370" "5113041").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:49
S216	0	("8586874").URPN.	USPAT	OR	OFF	2014/04/15 08:49
S217	1	(13/384199).APP.	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:49
S218	21	("20010043291" "20030090803" "20050046622" "20050190338" "20060274047" "20060274049" "20080030483" "20090086318" "20090167721" "20100033443" "20100085326" "20110069036" "6078274" "6552718" "6814452" "7535462" "7593004" "7868957" "7906216" "8125466" "8228453").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:49
S219	0	("8519969").URPN.	USPAT	OR	OFF	2014/04/15 08:49
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S221	56	("20030048254" "20040248073" "20050184993" "20050189139" "20070111014" "20070191074" "20070191075" "20070243456" "20070259716" "20070259717" "20080051043" "20080063931" "20080067247" "20080076505" "20080076506" "20080102957" "20080113772" "20080169910" "20080203903" "20080234024" "20080246026" "20080252570" "20080265754" "20080265759" "20080268934" "20080280682" "20080295327" "20080297448" "20080303782" "20080309867" "20090001380" "20090009396" "20090009496" "20090058361" "20090087024" "20090093300" "20090103161" "20100311488" "20100311490" "20100311493" "20100311494" "20100311502" "20100312625" "4900903" "5823873" "6007066" "6098985" "6890260" "6906495" "6906496" "7097108" "7189161" "7200266" "7438992" "7458825" "7552467").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:49
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S223	1	(12/479968).APP.	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:49
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S233	0	("2012/0118614").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 08:55
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S235	0	("2012/0105370").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same	USPAT	OR	OFF	2014/04/15 08:55

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S236	0	(13/384199).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT; USOCR	OR	OFF	2014/04/15 08:55
S237	0	("2010/0312625").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 08:55
S238	0	("2010/0311489").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 08:55
S239	0	(12/479976).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT; USOCR	OR	OFF	2014/04/15 08:55
S240	0	(12/479997).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT; USOCR	OR	OFF	2014/04/15 08:55
S241	0	(12/479968).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT; USOCR	OR	OFF	2014/04/15 08:55
S242	1	(12/649414).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT; USOCR	OR	OFF	2014/04/15 08:55
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S245	0	("2008/0314626").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 08:55
S246	0	(12/194839).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	USPAT; USOCR	OR	OFF	2014/04/15 08:55

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S250	0	(11/609220).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT; USOCR	OR	OFF	2014/04/15 08:55
S251	0	(12/479976).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:55
S252	0	(13/384199).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:55

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S254	1	(12/649414).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:55
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S256	0	(12/479968).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:55
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S258	0	("20030048254" "20040248073" "20050184993" "20050189139"	US-PGPUB; USPAT;	OR	OFF	2014/04/15 08:56

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S259	0	(12/479997).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:56
S260	0	("20010009352" "20010033483" "20020140133" "20020149717" "20030042839" "20030095094" "20030122485" "20030134506" "20030214223" "20030214224" "20040242110" "20050003640" "20050104509" "20050122306" "20050126628" "20050127455" "20050140893" "20050150541" "20050214967" "20060181763" "20060193031" "20060214880" "20070054730" "20070058178" "3602754" "3654680" "3927342" "3964050" "4027188" "4038577" "4554537" "4728864" "4833463" "4896149" "5086297" "5162901" "5436634" "5446344" "5661500" "5674553" "5745086" "5838105" "5892558" "5984747" "5985700" "6072276" "6111191" "6171762" "6197429" "6247987" "6354899" "6414433" "6431935" "6452332" "6459200" "6472594" "6480253" "6507146" "6515218" "6524773" "6570339" "6573880" "6577060" "6611100" "6677704" "6750605" "6771234" "6785036" "6794812" "6836063" "6841929" "6917156" "6930442" "6932664" "6936761" "6946803" "6950173" "6969292"	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:56

		"7022910" "7034446" "7049748" "7082236" "7122961" "7456571").PN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3				
S261	0	("8166649").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 08:56
S262	0	(12/194839).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3 and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:56
S263	0	("20010009352" "20010033483" "20020140133" "20020149717" "20030042839" "20030095094" "20030122485" "20030134506" "20030214223" "20030214224" "20040242110" "20050003640" "20050104509" "20050122306" "20050126628" "20050127455" "20050140893" "20050150541" "20050214967" "20060181763" "20060193031" "20060214880" "20070054730" "20070058178" "3602754" "3654680" "3927342" "3964050" "4027188" "4038577" "4554537" "4728864" "4833463" "4896149" "5086297" "5162901" "5436634" "5446344" "5661500" "5674553" "5745086" "5838105" "5892558" "5984747" "5985700" "6072276" "6111191" "6171762" "6197429" "6247987" "6354899" "6414433" "6431935" "6452332" "6459200" "6472594" "6480253" "6507146" "6515218" "6524773" "6570339" "6573880" "6577060" "6611100" "6677704" "6750605" "6771234" "6785036" "6794812" "6836063" "6841929" "6917156" "6930442" "6932664" "6936761" "6946803" "6950173" "6969292" "7022910" "7034446" "7049748" "7082236" "7122961" "7456571").PN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:56
S264	0	("8106853").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	USPAT	OR	OFF	2014/04/15 08:56

		same organic same EL same display\$3				
S265	0	(11/609220).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:56

4/ 15/ 2014 10:38:21 AM**C:\ Users\ pdharia\ Documents\ EAST\ Workspaces\ 13966857 04-15-2014.wsp**

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	33854	display\$3 and touch\$3 same panel\$1 and substrate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/13 16:50
S2	7	display\$3 and touch\$3 same panel\$1 and substrate\$1 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/13 16:52
S3	67	display\$3 and touch\$3 same sens\$4 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:37
S4	75	display\$3 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:38
S5	15	display\$3 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:38
S6	15	display\$3 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:39
S7	5	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:49
S8	5	detect\$3 same touch\$3 same external	US-PGPUB;	OR	OFF	2014/04/14

		same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			07:53
S9	40	detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:54
S10	245	detect\$3 same touch\$3 same wir\$3 same terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:54
S11	52	detect\$3 same touch\$3 same wir\$3 near3 terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:54
S12	29	detect\$3 near3 touch\$3 same wir\$3 near3 terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:55
S13	3	detect\$3 near3 touch\$3 near3 wir\$3 near3 terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 07:55
S14	3	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 09:09
S15	3	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and black same metal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 09:10
S16	0	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and black same metal same wire\$1 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2014/04/14 09:11

		combin\$3	IBM_TDB			
S17	0	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and black same metal and wire\$1 same combin\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 09:11
S18	5660408	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and black same metal and wire\$1 same line\$1 combin\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 09:12
S19	0	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and black same metal and wire\$1 same line\$1 same combin\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 09:12
S20	0	detect\$3 near\$3 touch\$3 same wir\$3 near\$3 terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and strip\$4 same shape same metal same wir\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:13
S21	0	detect\$3 near\$3 touch\$3 same wir\$3 near\$3 terminal\$1 and strip\$4 same shape same metal same wir\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:14
S22	0	detect\$3 same touch\$3 same wir\$3 near\$3 terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and strip\$4 same shape same metal same wir\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:15
S23	17026	strip\$4 same shape same metal same wir\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:15
S24	278	strip\$4 same shape same metal same wir\$3 same connect\$4 same flexible same cable\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:16
S25	9	strip\$4 same shape same metal same wir\$3 same connect\$4 same flexible same cable\$1 same pattern\$3	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2014/04/14 12:17

			EPO; JPO; DERWENT; IBM_TDB			
S26	0	strip\$4 near3 shape near3 metal near3 wir\$3 and connect\$4 same flexible same cable\$1 same pattern\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:19
S27	0	strip\$4 near3 shape near3 metal near3 wir\$3 and connect\$4 same flexible near3 cable\$1 same pattern\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:19
S28	142	strip\$4 near3 shape near3 metal near3 wir\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:20
S29	50	strip\$4 near3 shape near3 metal near3 wir\$3 same connect\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:20
S30	0	strip\$4 near3 shape near3 metal near3 wir\$3 same connect\$4 and touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:20
S31	0	strip\$4 near3 shape near3 metal near3 wir\$3 same connect\$4 and "345"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:22
S32	3	stripe-shaped near3 metal near3 wir\$3 same connect\$4 and "345"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:23
S33	15	stripe-shaped near3 metal near3 wir\$3 same connect\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:23
S34	3	stripe-shaped near3 metal near3 wir\$3 same connect\$4 same flexible	US-PGPUB; USPAT;	OR	OFF	2014/04/14 12:23

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S35	0	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and substrate\$1 and black same metal and plural\$3 same wir\$3 same group\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:25
S36	0	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and substrate\$1 and black same line\$1 and plural\$3 same wir\$3 same group\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:26
S37	0	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 and outside same area\$1 and substrate\$1 and black same line\$1 and plural\$3 same wir\$3 same group\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:27
S38	0	display\$3 and detect\$3 same touch\$3 and external same wir\$3 same terminal\$1 and outside same area\$1 and substrate\$1 and black same line\$1 and plural\$3 same wir\$3 same group\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:27
S39	16	display\$3 and detect\$3 same touch\$3 and external same wir\$3 same terminal\$1 and outside same area\$1 and substrate\$1 and black same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:28
S40	0	stripe-shaped near\$3 metal near\$3 wir\$3 same connect\$4 and "345"/\$.ccls. and plural\$3 same wir\$3 same group\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:28
S41	3	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:34
S42	0	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and wir\$3 same group\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:34

S43	3	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and wir\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:35
S44	0	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and wir\$3 and group\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:36
S45	3	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.) and substrate\$1 and wir\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:36
S46	2	"20130328815"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:37
S47	0	"20130328815" and groups	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:38
S48	1	"20130328815" and first same substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:39
S49	1	"20130328815" and first same substrate same wir\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:39
S50	1	"20130328815" and first same substrate same wir\$4 and two	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:41
S51	0	"20130328815" and first same substrate same wir\$4 and two same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2014/04/14 12:43

			DERWENT; IBM_TDB			
S52	2	"20130328815" and metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 12:45
S53	1	"20130328815" and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:18
S54	1	"20130328815" and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:18
S55	1	"20130328815" and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:20
S56	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:20
S57	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:20
S58	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:21
S59	0	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:22
S60	60414	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same	US-PGPUB; USPAT; USOCR;	OR	OFF	2014/04/14 13:23

		terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 metal same line\$1 same combin\$4	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S61	0	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:24
S62	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:24
S63	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:25
S64	22	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:26
S65	1	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 same black and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:27
S66	0	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:28
S67	1	"20130328815" and first same substrate same wir\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:29
S68	1	"20130328815" and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:29

S69	0	"20130328815" and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:29
S70	1	"20130328815" and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:30
S71	1	"20130328815" and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:30
S72	3	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:30
S81	67	display\$3 and touch\$3 same sens\$4 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:35
S82	15	display\$3 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:35
S83	15	display\$3 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:35
S84	15	S83 AND ((G06F3/047 OR G06F3/04817 OR G06F3/04883 OR G06F3/044 OR G06F3/045 OR G06F2203/04103 OR G06F2203/04111 OR G06F3/041 OR G06F3/0488 OR G06F3/04886 OR G06F17/24 OR G06F1/1694 OR G06F2203/04803 OR G06F3/0481 OR G06F3/04845).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:38
S85	15	S82 AND ((G06F3/047 OR G06F3/04817 OR G06F3/04883 OR G06F3/044 OR G06F3/045 OR G06F2203/04103 OR G06F2203/04111	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2014/04/14 13:38

		OR G06F3/041 OR G06F3/0488 OR G06F3/04886 OR G06F17/24 OR G06F1/1694 OR G06F2203/04803 OR G06F3/0481 OR G06F3/04845).CPC.)	EPO; JPO; DERWENT; IBM_TDB			
S86	18	S81 AND ((G06F3/04883 OR G06F3/04817 OR G06F11/1675 OR G06F13/1689 OR G06F13/1694 OR G06F17/50 OR G06F19/321 OR G06F2217/16 OR G06F2217/80 OR G06F3/041 OR G06F8/71 OR G06F17/24 OR G06F1/1694 OR G06F2203/04803 OR G06F3/044 OR G06F3/0481 OR G06F3/04845 OR G06F3/0488 OR G06F3/04886).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:39
S87	5	display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:40
S88	40	detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:40
S89	52	detect\$3 same touch\$3 same wir\$3 near3 terminal\$1 and ("345"/\$.ccls. or G06F3/\$.cpc. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:40
S90	52	S89 AND ((G06F3/044 OR G06F3/045 OR G06F3/041 OR G06F3/0412 OR G06F2203/04103 OR G06F3/016 OR G06F3/0416 OR G06F3/0418 OR G06F1/3203 OR G06F1/325 OR G06F2203/04111 OR G06F3/0488 OR G06F2203/04112 OR G06F2203/04113 OR G06F3/0202 OR G06F3/03547 OR G06F3/0383 OR G06F3/0421 OR G06F3/0425 OR G06F2203/0339 OR G06F2203/04102 OR G06F2203/04106 OR G06F2203/04107 OR G06F3/0338 OR G06F3/03543 OR G06F3/03545 OR G06F3/038 OR G06F3/0414 OR G06F9/4443).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:41
S91	38	S88 AND ((G06F3/044 OR G06F2203/04103 OR G06F3/045 OR G06F3/0416 OR G06F3/0412 OR G06F1/3203 OR G06F1/3231 OR G06F1/3259 OR G06F2203/04112 OR G06F3/03543 OR G06F3/0383 OR G06F2203/04111 OR G06F3/047 OR G06F3/04842 OR G06F3/0488 OR G06F2203/0339 OR G06F2203/04102 OR G06F2203/04107 OR G06F2203/04108 OR G06F3/01 OR G06F3/011 OR G06F3/014 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:41

		G06F3/03547 OR G06F3/041 OR G06F3/0418 OR G06F3/0482).CPC.)				
S92	5	S87 AND ((G06F3/045 OR G06F3/047 OR G06F2203/04103 OR G06F2203/04111 OR G06F3/044).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:41
S93	254290	touch\$3 same screen same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:44
S94	205	touch\$3 same screen same display\$3 and circular\$1 same polariz\$3 same plate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:44
S95	6	touch\$3 same screen same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:45
S96	8	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:45
S97	0	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and oragnic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:46
S98	5	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:46
S99	0	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same luminescence	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:46
S100	1	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3	US-PGPUB; USPAT; USOCR;	OR	OFF	2014/04/14 13:47

		same touch\$3 same panel\$1 and organic same light\$3 same emit\$4	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S101	4	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:48
S102	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:50
S103	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:50
S104	3	S103 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 13:50
S105	5	touch\$3 same screen same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 near\$3 touch\$3 near\$3 panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 13:57
S106	4	"20020047969"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:13
S107	1	"20020047969" and terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:13
S108	4	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:14
S109	5	touch\$3 same panel\$1 same	US-PGPUB;	OR	OFF	2014/04/14

		display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			14:15
S110	21849	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 touch\$3 same sens\$3 SAME line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:20
S111	0	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same sens\$3 SAME line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:20
S112	4	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 SAME line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:21
S113	4	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:22
S114	0	touch\$3 same screen same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adhar\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:27
S115	8	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:28
S116	0	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:29
S117	0	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2014/04/14 14:29

			IBM_TDB			
S118	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:29
S119	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same display\$3 same screen\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:33
S120	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 14:34
S121	3	S120 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 14:34
S132	456120	(G06F3/\$.cpc. and "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:40
S133	456120	(G06F3/\$.cpc. and "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 14:41
S134	4	(G06F3/\$.cpc. and "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and display\$3 and touch\$3 same sens\$4 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:41
S135	8	(G06F3/\$.cpc. and "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and display\$3 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:42
S136	29	(G06F3/\$.cpc. and "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2014/04/14 14:42

			EPO; JPO; DERWENT; IBM_TDB			
S137	878813	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/14 14:44
S138	878813	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:47
S139	15	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and display\$3 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:48
S140	8	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and display\$3 and touch\$3 same sens\$4 and detect\$3 same touch\$3 same external same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:48
S141	3	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and strip\$4 same shape same metal same wir\$3 same connect\$4 same flexible same cable\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:49
S142	0	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and strip\$4 same shape same metal same wir\$3 same connect\$4 same flexible same cable\$1 same pattern\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:49
S143	84	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same screen same display\$3 and circular\$1 same polariz\$3 same plate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:50
S144	4	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same screen same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:51
S145	6	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and	US-PGPUB; USPAT;	OR	OFF	2014/04/14 14:52

		touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S146	5	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:52
S147	3	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:53
S148	3	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 14:53
S152	0	touch\$3 same panel\$1 same display\$3 and organic same (electroluminescent or EL) same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 15:43
S153	8360	touch\$3 same panel\$1 same display\$3 and organic same (electroluminescent or EL) same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 15:43
S154	4200	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 15:43
S155	93	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 15:44
S156	6	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3	US-PGPUB; USPAT; USOCR;	OR	OFF	2014/04/14 15:45

		same (plate\$1 or film\$1) same adher\$3	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S157	4	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 15:45
S158	0	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and connect\$3 same terminal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 15:46
S159	3	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and connect\$3 same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 15:46
S160	4	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same detect\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:01
S161	3	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:03
S162	303	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:04
S163	2548073	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and touch\$3 same detect\$4 same coordinate\$1 same line\$1 same intersect or transvers\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:05
S164	4	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and touch\$3 same detect\$4 same coordinate\$1 same line\$1 same (intersect\$3 or transvers\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:05
S165	4	touch\$3 same panel\$1 same organic	US-PGPUB;	OR	OFF	2014/04/14

		same (electroluminescent or EL) same display\$3 and touch\$3 same detect\$4 same coordinate\$1 same line\$1 and detect\$4 same coordinate\$1 same line\$1 same (intersect\$3 or transvers\$3)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			16:06
S166	4	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and touch\$3 same detect\$4 same coordinate\$1 and detect\$4 same coordinate\$1 same line\$1 same (intersect\$3 or transvers\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:07
S167	4	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and touch\$3 same detect\$4 same coordinate\$1 and detect\$4 same coordinate\$1 same line\$1 same (intersect\$3 or transvers\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:08
S168	129	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and touch\$3 same detect\$4 same coordinate\$1 same (line\$1 or electrode\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:10
S169	13	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and touch\$3 same detect\$4 same coordinate\$1 same (line\$1 or electrode\$1) same (intersect\$4 or transvers\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:10
S170	16	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and touch\$3 same (detect\$4 or sens\$3) same coordinate\$1 same (line\$1 or electrode\$1) same (intersect\$4 or transvers\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:12
S171	32	Ookawara same Takeshi and Matsudate same Noriharu	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:18
S172	4	Ookawara same Takeshi and Matsudate same Noriharu and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:19
S173	3	Ookawara same Takeshi and Matsudate same Noriharu and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2014/04/14 16:19

		adher\$3 same touch\$3 same panel\$1	IBM_TDB			
S174	3	Ookawara same Takeshi and Matsudate same Noriharu and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:20
S175	5	Ookawara same Takeshi and Matsudate same Noriharu and first same substrate same wir\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:20
S176	3	Ookawara same Takeshi and Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:21
S177	3	Ookawara same Takeshi and Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:21
S178	37	Ookawara same Takeshi	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:21
S179	131	Matsudate same Noriharu	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:22
S180	5	Ookawara same Takeshi and first same substrate same wir\$4 and display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:22
S181	3	Ookawara same Takeshi and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:22
S182	3	Ookawara same Takeshi and first same substrate same wir\$4 and	US-PGPUB; USPAT;	OR	OFF	2014/04/14 16:23

		display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S183	4	Ookawara same Takeshi and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:24
S184	3	Ookawara same Takeshi and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:24
S185	3	Ookawara same Takeshi and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:24
S186	7	Matsudate same Noriharu and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:24
S187	3	Matsudate same Noriharu and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:25
S188	3	Matsudate same Noriharu and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:25
S189	10	Matsudate same Noriharu and first same substrate same wir\$4 and display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:26
S190	3	Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2014/04/14 16:26

		area\$1	DERWENT; IBM_TDB			
S191	3	Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 16:27

4/ 14/ 2014 8:57:42 PM**C:\Users\pdharia\Documents\EAST\Workspaces\13966857 04-13-2014.wsp**

Search Notes 	Application/Control No. 13966857	Applicant(s)/Patent Under Reexamination OOKAWARA ET AL.
	Examiner PRABODH M DHARIA	Art Unit 2693

CPC- SEARCHED		
Symbol	Date	Examiner
G06F3/044,045,047,0412	12-08-2013	PD
	04-13-2013	PD
	04-14-2014	PD
	04-15-2014	PD

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
345	173-179	12-08-2013	PD
349	12,58,153,155,156	04-13-2014	PD
438	51,455	04-14-2014	PD
178	18.01-18.06	04-15-2014	PD

SEARCH NOTES		
Search Notes	Date	Examiner
East text search per (Us-PGPUB;USPAT;USOCR;JPO;EPO;DERWENT;IBM_TDB;FPRS)	12-08-2013	PD
CPC text search per (US-PGPUB;USPAT;USOCR;JPO;EPO;DERWENT;IBM_TDB;FPRS)	04-13-2014	PD
	04-14-2014	PD
	04-15-2014	PD

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
345 / G06F3	173-179 / 044,045,047,0412	12-08-2013	PD

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INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
rest as listed above as searched		04-13-2014	PD
Interference search per (US-PGPUB)		04-14-2014	PD
		04-15-2014	PD

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<i>Index of Claims</i> 	Application/Control No. 13966857	Applicant(s)/Patent Under Reexamination OOKAWARA ET AL.
	Examiner PRABODH M DHARIA	Art Unit 2693

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47									
CLAIM		DATE							
Final	Original	12/08/2013	04/14/2014						
1	1	✓	=						
2	2	✓	=						
3	3	✓	=						
4	4	✓	=						
5	5	✓	=						
6	6		=						
7	7		=						
8	8		=						
9	9		=						
10	10		=						
11	11		=						
12	12		=						
13	13		=						
14	14		=						
15	15		=						

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1 and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4 and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1 and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1 and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3 and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1 and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1 and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 09:02
L3	3	first same substrate same wir\$4 and	US-PGPUB;	OR	OFF	2014/04/15

		display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			09:07
L5	3	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 09:08
L7	4	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 09:09
L9	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 09:09
L11	4	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 09:09
L13	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 09:10
L15	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 09:10
L18	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 09:11
L19	3	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2014/04/15 09:11

		combin\$4 same pad\$1	DERWENT; IBM_TDB			
L21	4	"20090046077"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 09:13
L22	2	"20050139398"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 09:13
L23	6	"20090096763"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 09:13
L24	1	("2009/0096763").URPN.	USPAT	OR	OFF	2014/04/15 09:14
L25	0	(12/193809).APP.	USPAT; USOCR	OR	OFF	2014/04/15 09:14
L26	1	("2005/0139398").URPN.	USPAT	OR	OFF	2014/04/15 09:15
L27	0	(10/858395).APP.	USPAT; USOCR	OR	OFF	2014/04/15 09:15
L28	10	("2009/0046077").URPN.	USPAT	OR	OFF	2014/04/15 09:15
L29	1	(12/093489).APP.	USPAT; USOCR	OR	OFF	2014/04/15 09:15
L30	9	("20040217945" "20070074913" "20090046077" "4290052" "4743895" "5459596" "5600461" "6057903" "6259490").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 09:15
L31	2	("8013943").URPN.	USPAT	OR	OFF	2014/04/15 09:15
L32	0	"20090046077" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 09:17
L33	0	"20050139398" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/15 09:17
L34	0	"20090096763" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2014/04/15 09:17

		and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	EPO; JPO; DERWENT; IBM_TDB			
L35	0	("2009/0096763").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	USPAT	OR	OFF	2014/04/15 09:17
L36	0	("2005/0139398").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	USPAT	OR	OFF	2014/04/15 09:17
L37	0	("2009/0046077").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	USPAT	OR	OFF	2014/04/15 09:17
L38	0	(12/093489).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	USPAT; USOCR	OR	OFF	2014/04/15 09:17
L39	0	("20040217945" "20070074913" "20090046077" "4290052" "4743895" "5459596" "5600461" "6057903" "6259490").PN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 09:17
L40	0	("8013943").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	USPAT	OR	OFF	2014/04/15 09:17
S1	49	averag\$3 same power\$3 same level\$3 same control\$4 same gamma same characteristic\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:26
S2	65	averag\$3 same power\$3 same (level\$3 OR VOLTAGES\$1 OR POTENTIAL\$1) same control\$4 same gamma same characteristic\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2013/12/08 10:27

			IBM_TDB			
S3	24	DIFFERENT SAME averag\$3 same power\$3 same (level\$3 OR VOLTAGE\$1 OR POTENTIAL\$1) same control\$4 same gamma same characteristic\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:27
S4	11	DIFFERENT SAME averag\$3 same power\$3 near3 (level\$3 OR VOLTAGE\$1 OR POTENTIAL\$1) same control\$4 same gamma same characteristic\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:28
S5	3	DIFFERENT SAME averag\$3 same power\$3 near3 (level\$3 OR VOLTAGE\$1 OR POTENTIAL\$1) same control\$4 same gamma near3 characteristic\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:28
S6	0	DIFFERENT SAME averag\$3 same power\$3 near3 (level\$3 OR VOLTAGE\$1 OR POTENTIAL\$1) same control\$4 near3 (gamma same characteristic\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:29
S7	2	DIFFERENT SAME averag\$3 same power\$3 near3 (level\$3 OR VOLTAGE\$1 OR POTENTIAL\$1) same measur\$3 near3 (gamma same characteristic\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:29
S8	13	base\$3 same (DIFFERENT SAME averag\$3 same power\$3 same (level\$3 OR VOLTAGE\$1 OR POTENTIAL\$1)) same control\$4 same (gamma same characteristic\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:30
S9	10	based same DIFFERENT SAME (averag\$3 same power\$3 same (level\$3 OR VOLTAGE\$1 OR POTENTIAL\$1)) same measur\$3 same (gamma same characteristic\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:32
S10	252	based same ((different or plurral\$3) (averag\$3 same power\$3 same (level\$3 OR VOLTAGE\$1 OR POTENTIAL\$1))) same measur\$3 same (gamma same characteristic\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:32
S11	8	based same ((different or plurral\$3) same(averag\$3 same power\$3 same (level\$3 or voltage\$1 or pontential\$1))) same measur\$3 same (gamma same	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2013/12/08 10:33

		characteristic\$1)	EPO; JPO; DERWENT; IBM_TDB			
S12	8	based same ((different or plurral\$3 same(averag\$3 same power\$3 same (level\$3 or voltage\$1 or pontential\$1))) same (measur\$3 same (gamma same characteristic\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:34
S13	17	bas\$3 same ((different or plurral\$3 same(averag\$3 same power\$3 same (level\$3 or voltage\$1 or pontential\$1))) same (measur\$3 same (gamma same characteristic\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:34
S14	8	bas\$3 same ((different or plurral\$3 same(averag\$3 same power\$3 near3 (level\$3 or voltage\$1 or pontential\$1))) same (measur\$3 same (gamma same characteristic\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:34
S15	2	bas\$3 same ((different or plurral\$3 same(averag\$3 same power\$3 near3 (level\$3 or voltage\$1 or pontential\$1))) same (measur\$3 near3 (gamma same characteristic\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:34
S16	2	bas\$3 same ((different or plurral\$3 same(averag\$3 same power\$3 near3 (level\$3 or voltage\$1 or pontential\$1))) same interpolat\$3 same coefficient\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:38
S17	4	bas\$3 same ((different or plurral\$3 same(averag\$3 same power\$3 same (level\$3 or voltage\$1 or pontential\$1))) same interpolat\$3 same coefficient\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:38
S18	2	bas\$3 same ((different or plurral\$3 same(averag\$3 same power\$3 same (level\$3 or voltage\$1 or pontential\$1))) same interpolat\$3 same coefficient\$1 same gamma same control\$4 same function\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:39
S19	117036	display\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:43
S20	66819	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same	US-PGPUB; USPAT;	OR	OFF	2013/12/08 10:44

		(compris\$3 or includ\$3)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S21	2609	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same (first and second) same substrate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:44
S22	140	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:47
S23	59	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) same (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:49
S24	17	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) same (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal same (area\$1 or region\$1 or section\$1 or partition\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:51
S25	20	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) same (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:51
S26	80	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:53
S27	22	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2013/12/08 10:55

		or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and (first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1) same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1	DERWENT; IBM_TDB			
S28	0	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and (first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1) same second same (metal\$3 same (line or electrode\$1)) same detect\$3 same touch\$3 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:56
S29	9	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and (first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1) same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 10:58
S30	5	display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and (first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1) same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1 and metal same (line\$1 or electrode\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:25

S31	0	"13966857"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:34
S32	1	"12969414"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:34
S33	2	"12649414"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:35
S34	137187	G06F3/\$.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:49
S35	18302	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:49
S36	1876	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:49
S37	271	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:50
S38	73	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:50
S39	25	G06F3/\$.cpc. and display\$3 same	US-PGPUB;	OR	OFF	2013/12/08

		touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			11:53
S40	22	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:53
S41	9	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:54
S42	5	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1 and metal same (line\$1 or electrode\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:55

S43	5	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1 and metal\$3 same (line\$1 or electrode\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 11:55
S44	16	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and ITO	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 12:41
S45	17	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and (ITO or (indium same tin same oxide))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 12:42
S46	11	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and (ITO or (indium same tin same oxide)) same (line or electrode\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 12:45
S47	1	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or	US-PGPUB; USPAT; USOCR;	OR	OFF	2013/12/08 12:54

		includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1 and metal\$3 same (line\$1 or electrode\$1) and (ITO or (indium same tin same oxide)) same (line or electrode\$1)	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S48	3	"20090167721"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 13:11
S49	0	"20090167721" and polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 13:22
S50	1	"20050046622" and polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 13:24
S51	1	"20050046622" and polariz\$3 and terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 13:28
S52	0	"20090167721" and terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 13:44
S53	0	"20050046622" and polariz\$3 and terminal\$1 same connect\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 13:45
S54	0	"20090167721" and detect\$3 same coordinate\$1	US-PGPUB; USPAT; USOCR;	OR	OFF	2013/12/08 14:01

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S55	0	"20050046622" and polariz\$3 and terminal\$1 and detect\$3 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 14:02
S56	0	"20090167721" and coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 14:03
S57	1	"20050046622" and polariz\$3 and terminal\$1 and coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 14:03
S58	0	"20050046622" and polariz\$3 same linear\$5 and terminal\$1 and coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 15:08
S59	1	"20050046622" and polariz\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 15:09
S60	2	"6814452".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 15:10
S61	1	"6814452".pn. and linear\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 15:11
S62	1	"6814452".pn. and linear\$5 and circular	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 15:11
S63	1	"20050046622" and polariz\$3 and	US-PGPUB;	OR	OFF	2013/12/08

		terminal\$1 and linear\$3	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			15:52
S64	1	"6814452".pn. and touc\$3 same contact\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 15:54
S65	1	"20050046622" and polariz\$3 and terminal\$1 and linear\$3 and contact\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 16:13
S66	1	"20050046622" and polariz\$3 and terminal\$1 and linear\$3 and contact\$3 same electrode\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 16:14
S67	0	G06F3/\$.cpc. and display\$3 same touch\$3 same panel\$1 and touch\$3 same panel\$1 same (compris\$3 or includ\$3) same ((first and second) same substrate\$1) and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1)) and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1)) and first same substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1 and metal\$3 same (line\$1 or electrode\$1) and (ITO or (indium same tin same oxide)) same (line or electrode\$1) and linear\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/08 16:27
S68	2	"20090096763"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/09 10:24
S69	1	"20090096763" and (touch\$3 same detect\$3 same (area\$1 or region\$1 or section\$1 or partition\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/09 10:25
S70	1	"20090096763" and first same	US-PGPUB;	OR	OFF	2013/12/09

		substrate\$1 same first same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and second same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			10:26
S71	1	"20090096763" and detect\$3 same touch\$3 same coordinate\$1 and (terminal\$1 same (area\$1 or region\$1 or section\$1 or partition\$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/09 10:28
S72	1	"20090096763" and second same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1 and metal\$3 same (line\$1 or electrode\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/09 10:37
S73	0	"20090096763" and second same substrate\$1 same second same (line or electrode\$1) same detect\$3 same touch\$3 same coordinate\$1 and polariz\$3 same plate\$1 and metal\$3 same (line\$1 or electrode\$1) and circular	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/12/09 10:38

4/ 15/ 2014 9:22:38 AM

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	3	<p>first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1 and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4 and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1 and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1 and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3 and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1 and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1 and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same</p>	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 20:58

		wir\$3 same metal same line\$1				
S2	32	Ookawara same Takeshi and Matsudate same Noriharu	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 20:59
S3	878813	(G06F3/\$.cpc. or "345"/\$.cls. or "438"/\$.cls. or "178"/\$.cls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 20:59
S4	131	Matsudate same Noriharu	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 20:59
S5	37	Ookawara same Takeshi	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 20:59
S6	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:00
S7	3	touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:01
S8	4	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:01
S9	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:02
S10	4	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2014/04/14 21:03

		terminal\$1 and touch\$3 same detect\$3 same line\$1	EPO; JPO; DERWENT; IBM_TDB			
S11	3	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:03
S12	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:03
S13	3	first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:04
S14	3	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:04
S15	3	(G06F3/\$.cpc. or "345"/\$.cls. or "438"/\$.cls. or "178"/\$.cls.) and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:10
S16	3	(G06F3/\$.cpc. or "345"/\$.cls. or "438"/\$.cls. or "178"/\$.cls.) and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:10
S17	4	(G06F3/\$.cpc. or "345"/\$.cls. or "438"/\$.cls. or "178"/\$.cls.) and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:10
S18	3	(G06F3/\$.cpc. or "345"/\$.cls. or "438"/\$.cls. or "178"/\$.cls.) and touch\$3 same panel\$1 same display\$3	US-PGPUB; USPAT; USOCR;	OR	OFF	2014/04/14 21:10

		and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S19	4	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:10
S20	3	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:10
S21	3	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:10
S22	3	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:10
S23	3	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:10
S24	3	(G06F3/\$.cpc. or "345"/\$.ccls. or "438"/\$.ccls. or "178"/\$.ccls.) and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:11
S25	3	Ookawara same Takeshi and Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:11
S26	3	Ookawara same Takeshi and Matsudate	US-PGPUB;	OR	OFF	2014/04/14

		same Noriharu and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			21:11
S27	3	Ookawara same Takeshi and Matsudate same Noriharu and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:11
S28	3	Ookawara same Takeshi and Matsudate same Noriharu and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:11
S29	3	Ookawara same Takeshi and Matsudate same Noriharu and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:11
S30	3	Ookawara same Takeshi and Matsudate same Noriharu and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:11
S31	3	Ookawara same Takeshi and Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:11
S32	3	Ookawara same Takeshi and Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:11
S33	3	Ookawara same Takeshi and Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:12
S34	3	Ookawara same Takeshi and Matsudate	US-PGPUB;	OR	OFF	2014/04/14

		same Noriharu and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			21:12
S65	3	Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:19
S66	3	Ookawara same Takeshi and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:19
S67	3	Matsudate same Noriharu and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:19
S68	3	Ookawara same Takeshi and touch\$3 same panel\$1 same organic same (electroluminescent or EL) same display\$3 and circular same polariz\$3 same (plate\$1 or film\$1) same adher\$3 same touch\$3 same panel\$1 and touch\$3 same detect\$4 same coordinate\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:19
S69	3	Matsudate same Noriharu and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:19
S70	3	Ookawara same Takeshi and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:19
S71	3	Ookawara same Takeshi and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:19
S72	3	Matsudate same Noriharu and touch\$3	US-PGPUB;	OR	OFF	2014/04/14

		same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			21:19
S73	3	Matsudate same Noriharu and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:19
S74	3	Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:20
S75	3	Ookawara same Takeshi and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and substrate\$1 same terminal\$1 and touch\$3 same detect\$3 same line\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:20
S76	3	Ookawara same Takeshi and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:20
S77	3	Matsudate same Noriharu and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:20
S78	3	Ookawara same Takeshi and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 and organic same EL same display\$3 and substrate\$1 same external same terminal\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:20
S79	3	Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:20
S80	3	Ookawara same Takeshi and first same substrate same wir\$4 and display\$3	US-PGPUB; USPAT;	OR	OFF	2014/04/14 21:20

		and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S81	3	Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:20
S82	3	Ookawara same Takeshi and first same substrate same wir\$4 and display\$3 and detect\$3 same touch\$3 same external same wir\$3 same terminal\$1 same outside same area\$1 and metal same line\$1 same black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:20
S83	3	Matsudate same Noriharu and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:21
S84	3	Ookawara same Takeshi and first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same black and metal same line\$1 same combin\$4 same pad\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:21
S105	0	"20100033443" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:29
S106	0	"20090086318" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S107	0	"20080030483" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S108	0	"200510190338" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31

S109	0	"20050046622" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S110	0	"20090167721" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S111	0	"20100085326" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S112	0	"20110069036" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S113	0	"20030090803" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S114	0	"20060274047" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S115	0	"20010043291" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S116	0	"20060274049" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:31
S117	0	"6,078,274".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2014/04/14 21:34

			DERWENT; IBM_TDB			
S118	0	"6,814,452".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:34
S119	0	"6,814,452".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:35
S120	0	"7,906,216".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:35
S121	0	"7,593,004".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:35
S122	0	"7,535,462".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:35
S123	0	"6,552,718".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:35
S124	0	"8,228,453".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:35
S125	0	"7,868,957".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:35
S126	0	"8,125,466".pn. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same	US-PGPUB; USPAT; USOCR;	OR	OFF	2014/04/14 21:35

		adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S127	8	"2002342014"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:35
S128	0	"2002342014" and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 21:36
S129	6	touch\$3 same screen same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 22:16
S130	8	touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 22:16
S131	22	first same substrate same wir\$4 and display\$3 same touch\$3 same panel\$1 and substrate\$1 same wir\$3 same metal same line\$1 and metal same line\$1 same combin\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/04/14 22:16
S132	0	("2013/0328815").URPN.	USPAT	OR	OFF	2014/04/15 07:35
S133	0	(13/966857).APP.	USPAT; USOCR	OR	OFF	2014/04/15 07:35
S134	1	("2010/0177055").URPN.	USPAT	OR	OFF	2014/04/15 07:35
S135	1	(12/649414).APP.	USPAT; USOCR	OR	OFF	2014/04/15 07:36
S136	7	("2005/0046622").URPN.	USPAT	OR	OFF	2014/04/15 07:37
S137	0	(10/922916).APP.	USPAT; USOCR	OR	OFF	2014/04/15 07:37
S138	2	("2002/0047969").URPN.	USPAT	OR	OFF	2014/04/15 07:37
S139	1	(09/929067).APP.	USPAT; USOCR	OR	OFF	2014/04/15 07:37
S140	21	("20010043291" "20030090803" "20050046622" "20050190338" "20060274047" "20060274049" "20080030483" "20090086318"	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 07:37

		"20090167721" "20100033443" "20100085326" "20110069036" "6078274" "6552718" "6814452" "7535462" "7593004" "7868957" "7906216" "8125466" "8228453").PN.				
S141	0	("8519969").URPN.	USPAT	OR	OFF	2014/04/15 07:37
S142	1	(12/649414).APP.	US-PGPUB; USOCR	OR	OFF	2014/04/15 07:37
S143	8	("5657140" "5743980" "5929946" "5999240" "6020945" "6133980" "6147741" "6208396").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 07:37
S144	2	("6738117").URPN.	USPAT	OR	OFF	2014/04/15 07:41
S145	1	(09/929067).APP.	US-PGPUB; USOCR	OR	OFF	2014/04/15 07:41
S146	0	("2010/0177055").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 07:49
S147	1	(12/649414).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT; USOCR	OR	OFF	2014/04/15 07:49
S148	1	("2005/0046622").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 07:49
S149	0	("2002/0047969").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 07:49
S150	0	(09/929067).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT; USOCR	OR	OFF	2014/04/15 07:49
S151	0	("20010043291" "20030090803" "20050046622" "20050190338" "20060274047" "20060274049" "20080030483" "20090086318" "20090167721" "20100033443" "20100085326" "20110069036" "6078274" "6552718" "6814452" "7535462" "7593004" "7868957" "7906216" "8125466" "8228453").PN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 07:49
S152	1	(12/649414).APP. and touch\$3 same	US-PGPUB;	OR	OFF	2014/04/15

		panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USOCR			07:49
S153	0	("5657140" "5743980" "5929946" "5999240" "6020945" "6133980" "6147741" "6208396").PN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 07:49
S154	0	("6738117").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 07:49
S155	0	(09/929067).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USOCR	OR	OFF	2014/04/15 07:49
S156	0	("2013/0328815").URPN.	USPAT	OR	OFF	2014/04/15 08:41
S157	0	(13/966857).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:41
S158	0	("2013/0057495").URPN.	USPAT	OR	OFF	2014/04/15 08:41
S159	0	(13/600244).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:41
S160	1	("2010/0177055").URPN.	USPAT	OR	OFF	2014/04/15 08:41
S161	1	(12/649414).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:41
S162	7	("2005/0046622").URPN.	USPAT	OR	OFF	2014/04/15 08:41
S163	0	(10/922916).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:41
S164	2	("2002/0047969").URPN.	USPAT	OR	OFF	2014/04/15 08:42
S165	1	(09/929067).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:42
S166	21	("20010043291" "20030090803" "20050046622" "20050190338" "20060274047" "20060274049" "20080030483" "20090086318" "20090167721" "20100033443" "20100085326" "20110069036" "6078274" "6552718" "6814452" "7535462" "7593004" "7868957" "7906216" "8125466" "8228453").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:42
S167	0	("8519969").URPN.	USPAT	OR	OFF	2014/04/15 08:42
S168	1	(12/649414).APP.	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:42
S169	8	("5657140" "5743980" "5929946" "5999240" "6020945" "6133980"	US-PGPUB; USPAT;	OR	OFF	2014/04/15 08:42

		"6147741" "6208396").PN.	USOCR			
S170	2	("6738117").URPN.	USPAT	OR	OFF	2014/04/15 08:42
S171	1	(09/929067).APP.	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:42
S172	0	("2010/0177055").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 08:43
S173	1	(12/649414).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT; USOCR	OR	OFF	2014/04/15 08:44
S174	1	("2005/0046622").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 08:44
S175	0	("2002/0047969").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 08:44
S176	0	(09/929067).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT; USOCR	OR	OFF	2014/04/15 08:44
S177	0	("20010043291" "20030090803" "20050046622" "20050190338" "20060274047" "20060274049" "20080030483" "20090086318" "20090167721" "20100033443" "20100085326" "20110069036" "6078274" "6552718" "6814452" "7535462" "7593004" "7868957" "7906216" "8125466" "8228453").PN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:44
S178	1	(12/649414).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:44
S179	0	("5657140" "5743980" "5929946" "5999240" "6020945" "6133980" "6147741" "6208396").PN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:44

S180	0	("6738117").URPN. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	USPAT	OR	OFF	2014/04/15 08:44
S181	0	(09/929067).APP. and touch\$3 same panel\$1 same display\$3 and circular\$1 same polariz\$3 same plate\$1 same adher\$3 same touch\$3 same panel\$1 same organic same EL same display\$3	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:44
S182	0	("2014/0098307").URPN.	USPAT	OR	OFF	2014/04/15 08:45
S183	0	(14/103448).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:45
S184	0	("2014/0000943").URPN.	USPAT	OR	OFF	2014/04/15 08:46
S185	0	(14/004557).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:46
S186	0	("2013/0328815").URPN.	USPAT	OR	OFF	2014/04/15 08:46
S187	0	(13/966857).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:46
S188	0	("2013/0044384").URPN.	USPAT	OR	OFF	2014/04/15 08:46
S189	0	(13/305615).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:46
S190	0	("2012/0212449").URPN.	USPAT	OR	OFF	2014/04/15 08:46
S191	0	(13/458240).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:46
S192	2	("2012/0118614").URPN.	USPAT	OR	OFF	2014/04/15 08:46
S193	1	(13/384199).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:46
S194	1	("2012/0105370").URPN.	USPAT	OR	OFF	2014/04/15 08:46
S195	0	(13/336093).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:46
S196	0	("2012/0086019").URPN.	USPAT	OR	OFF	2014/04/15 08:47
S197	0	(13/378154).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:47
S198	11	("2010/0312625").URPN.	USPAT	OR	OFF	2014/04/15 08:47
S199	1	(12/479976).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:47
S200	6	("2010/0311502").URPN.	USPAT	OR	OFF	2014/04/15 08:47
S201	1	(12/479997).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:47
S202	10	("2010/0311494").URPN.	USPAT	OR	OFF	2014/04/15 08:47
S203	0	(12/479954).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:47
S204	7	("2010/0311489").URPN.	USPAT	OR	OFF	2014/04/15

						08:47
S205	1	(12/479968).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:47
S206	1	("2010/0177055").URPN.	USPAT	OR	OFF	2014/04/15 08:48
S207	1	(12/649414).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:48
S208	4	("2008/0314626").URPN.	USPAT	OR	OFF	2014/04/15 08:48
S209	1	(12/194839).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:48
S210	3	("2007/0289768").URPN.	USPAT	OR	OFF	2014/04/15 08:48
S211	1	(11/609220).APP.	USPAT; USOCR	OR	OFF	2014/04/15 08:48
S212	62	("20030048254" "20040248073" "20050184993" "20050189139" "20070111014" "20070191074" "20070191075" "20070243456" "20070259716" "20070259717" "20080051043" "20080063931" "20080067247" "20080076505" "20080076506" "20080102957" "20080113772" "20080169910" "20080203903" "20080234024" "20080246026" "20080252570" "20080265754" "20080265759" "20080268934" "20080280682" "20080284693" "20080295327" "20080297448" "20080303782" "20080309867" "20090001380" "20090009396" "20090009496" "20090058361" "20090087024" "20090093300" "20090103161" "20100311488" "20100311489" "20100311490" "20100311493" "20100311494" "20100311502" "4900903" "5823873" "6007066" "6098985" "6524240" "6890260" "6906495" "6906496" "7097108" "7189161" "7200266" "7438992" "7458825" "7552467" "8057303" "8087988" "8115451" "8169185").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:48
S213	0	("8613671").URPN.	USPAT	OR	OFF	2014/04/15 08:48
S214	1	(12/479976).APP.	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:48
S215	5	("20060097991" "20090002337" "20100156840" "20110102370" "5113041").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:49
S216	0	("8586874").URPN.	USPAT	OR	OFF	2014/04/15 08:49
S217	1	(13/384199).APP.	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:49
S218	21	("20010043291" "20030090803" "20050046622" "20050190338" "20060274047" "20060274049" "20080030483" "20090086318"	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:49

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S219	0	("8519969").URPN.	USPAT	OR	OFF	2014/04/15 08:49
S220	1	(12/649414).APP.	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:49
S221	56	("20030048254" "20040248073" "20050184993" "20050189139" "20070111014" "20070191074" "20070191075" "20070243456" "20070259716" "20070259717" "20080051043" "20080063931" "20080067247" "20080076505" "20080076506" "20080102957" "20080113772" "20080169910" "20080203903" "20080234024" "20080246026" "20080252570" "20080265754" "20080265759" "20080268934" "20080280682" "20080295327" "20080297448" "20080303782" "20080309867" "20090001380" "20090009396" "20090009496" "20090058361" "20090087024" "20090093300" "20090103161" "20100311488" "20100311490" "20100311493" "20100311494" "20100311502" "20100312625" "4900903" "5823873" "6007066" "6098985" "6890260" "6906495" "6906496" "7097108" "7189161" "7200266" "7438992" "7458825" "7552467").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:49
S222	0	("8419535").URPN.	USPAT	OR	OFF	2014/04/15 08:49
S223	1	(12/479968).APP.	US-PGPUB; USOCR	OR	OFF	2014/04/15 08:49
S224	1	("8287386").URPN.	USPAT	OR	OFF	2014/04/15 08:50
S225	56	("20030048254" "20040248073" "20050184993" "20050189139" "20070111014" "20070191074" "20070191075" "20070243456" "20070259716" "20070259717" "20080051043" "20080063931" "20080067247" "20080076505" "20080076506" "20080102957" "20080113772" "20080169910" "20080203903" "20080234024" "20080246026" "20080252570" "20080265754" "20080265759" "20080268934" "20080280682" "20080295327" "20080297448" "20080303782" "20080309867" "20090001380" "20090009396" "20090009496" "20090058361" "20090087024" "20090093300" "20090103161" "20100311488"	US-PGPUB; USPAT; USOCR	OR	OFF	2014/04/15 08:50

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4/ 15/ 2014 8:59:05 AM

C:\Users\pdharia\Documents\EAST Workspaces\13966857 04-15-2014.wsp

Issue Classification 	Application/Control No. 13966857	Applicant(s)/Patent Under Reexamination OOKAWARA ET AL.
	Examiner PRABODH M DHARIA	Art Unit 2693

US ORIGINAL CLASSIFICATION						INTERNATIONAL CLASSIFICATION													
CLASS		SUBCLASS				CLAIMED					NON-CLAIMED								
345		173				G	0	6	F	3 / 041 (2006.01.01)									
CROSS REFERENCE(S)																			
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)																		
345	178																		

NONE	04-14-2014	Total Claims Allowed:	
(Assistant Examiner)	(Date)	15	
/PRABODH M DHARIA/ Primary Examiner.Art Unit 2693	04-14-2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	10

Issue Classification 	Application/Control No. 13966857	Applicant(s)/Patent Under Reexamination OOKAWARA ET AL.
	Examiner PRABODH M DHARIA	Art Unit 2693

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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NONE	04-14-2014	Total Claims Allowed:	
(Assistant Examiner)	(Date)	15	
/PRABODH M DHARIA/ Primary Examiner.Art Unit 2693	04-14-2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	10

PART B- FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to:

Mail Stop ISSUE FEE
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 Or Fax (571) 273-2885

1497.50463CX1

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All Further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for Maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)
 020457 7590

ANTONELLI, TERRY STOUT & KRAUS, LLP
 1300 NORTH SEVENTEENTH STREET
 SUITE 1800
 ARLINGTON, VA 22209-3873

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Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope Addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
 (Signature)
 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/966,857	8/14/2013	OOKAWARA	1497.50463CX1	1196

TITLE OF INVENTION: Display Device With Touch Panel

APPL. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE (\$ DUE	DATE DUE
Nonprovisional	NO	\$960	\$0	\$0	\$960	7/16/2014
EXAMINER		ART UNIT		CLASS-SUBCLASS		

1. Change of correspondence address or indication of "Fee Address: (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122 attached.
 agents OR, alternatively,
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys 1 ANTONELLI, TERRY, STOUT & KRAUS, LLP.
 Or agents OR, alternatively,
 (2) the name of single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed no name will be printed.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Japan Display Inc.
 Panasonic Liquid Crystal Display Co., Ltd.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Tokyo, Japan
 Hyogo-ken, Japan

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

- ☒ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☒ Advance Order- # of Copies 4

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- ☐ A check is enclosed.
☒ Payment by credit card. Form PTO-2038 is attached.
☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 01-2135.

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in Interest as shown by the records of the United States patent and Trademark Office.

Authorized Signature /Melvin Kraus/ MKDate: July 8, 2014Typed or printed name Melvin KrausRegistration No. 22,466

Electronic Patent Application Fee Transmittal				
Application Number:		13966857		
Filing Date:		14-Aug-2013		
Title of Invention:		Display Device With Touch Panel		
First Named Inventor/Applicant Name:		Takeshi Ookawara		
Filer:		Melvin Kraus/joy aiken		
Attorney Docket Number:		1497.50463CX1		
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl Issue Fee	1501	1	960	960
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Printed Copy of Patent - No Color	8001	4	3	12
Total in USD (\$)				972

Electronic Acknowledgement Receipt	
EFS ID:	19514299
Application Number:	13966857
International Application Number:	
Confirmation Number:	1196
Title of Invention:	Display Device With Touch Panel
First Named Inventor/Applicant Name:	Takeshi Ookawara
Customer Number:	20457
Filer:	Melvin Kraus/joy aiken
Filer Authorized By:	Melvin Kraus
Attorney Docket Number:	1497.50463CX1
Receipt Date:	08-JUL-2014
Filing Date:	14-AUG-2013
Time Stamp:	11:04:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 972
RAM confirmation Number	9990
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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1	Issue Fee Payment (PTO-85B)	50463feetrans.pdf	187492 34144a224ec0eebfbd68b9050bd043860635aa40d	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	31942 e9394fcbc5e996243c8c864ea3f39f0e995af501	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			219434		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/966,857	08/12/2014	8803836	1497.50463CX1	1196

20457 7590 07/23/2014
ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 NORTH SEVENTEENTH STREET
SUITE 1800
ARLINGTON, VA 22209-3873

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Panasonic Liquid Crystal Display Co., Ltd., Hyogo-ken, JAPAN, Assignee (with 37 CFR 1.172 Interest);
Japan Display Inc., Chiba, JAPAN, Assignee (with 37 CFR 1.172 Interest);
Takeshi Ookawara, Mobara, JAPAN;
Noriharu Matsudate, Kujukuri, JAPAN;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

Post-AIA GPA

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 C.F.R. §3.73(c).

I hereby appoint practitioners associated with Customer Number: **127271**

Lowe Hauptman & Ham, LLP

Telephone: +1-703-684-1111

Email: docketing@ipfirm.com

www.ipfirm.com

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 C.F.R. §3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 C.F.R. §3.73(c) to the address associated with Customer Number: **127271**

Legal Name and Address of Assignee:
Name: Japan Display Inc.
Address: 3-7-1, Nishi-shinbashi, Minato-ku, Tokyo 105-0003, Japan

Note-A copy of this form, together with a statement under 37 C.F.R. §3.73(c) is required to be filed in each application in which this form is used. The statement under 37 C.F.R. §3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

Signature of Assignee of Record: The individual whose signature and title are supplied below is authorized to act on behalf of the assignee:	
Signature: 	Date: <i>January 16, 2015</i>
Name: Hiroyuki YOSHIDA	Telephone: +81-3-6732-8368
Title: Senior General Manager, Intellectual Property Dept., Japan Display Inc.	

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**REVOCATION OF POWER OF ATTORNEY AND
NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE
ADDRESS**

COMMISSIONER FOR PATENTS
PO BOX 1450
ALEXANDRIA, VA 22313-1450

SIR:

The undersigned representative of Panasonic Liquid Crystal Display Co., Ltd., the assignee of the entire right, title and interest of the patents/applications identified by appendix A by virtue of an assignment from the inventor(s), hereby revokes any and all previous Powers of Attorney, appoints the practitioners associated with the Customer Number 127271 as Assignee's attorneys with full power of substitution and revocation, to prosecute said patent applications, receive any Letters Patent(s) and to transact all business in the United States Patent and Trademark Office with regard to said patent applications and any Letters Patent(s) issuing thereon, and requests that all correspondence be sent to Customer No. 127271 or Lowe Hauptman & Ham, LLP., 2318 Mill Road, Suite 1400, Alexandria, Virginia 22314.

CERTIFICATION UNDER 37 C.F.R. 3.73(b) / 37 C.F.R. 3.73(c)

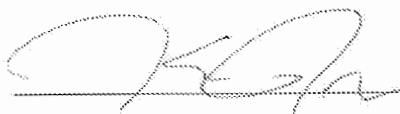
I, the undersigned, certify that I am an individual empowered to act on behalf of Panasonic Liquid Crystal Display Co., Ltd., the assignee of the entire right, title and interest of the identified patents/applications identified by appendix A by virtue of an assignment from the inventor(s).

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or

imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Panasonic Liquid Crystal Display Co., Ltd.

Date of Signature: Jan. 26, 2015

Signature: 

Name: Kazuhiko Ishimaru

Title of Signor: Manager, Intellectual Property Team, Product Development Center

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Takeshi Ookawara et al.

Application No./Patent No.: 13/966,857 Filed/Issue Date: 08/14/2013

Titled: Display Device With Touch Panel

JAPAN DISPLAY INC., a CORPORATION

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☐ The assignee of the entire right, title, and interest.

2. ☒ An assignee of less than the entire right, title, and interest (check applicable box):

☒ The extent (by percentage) of its ownership interest is 50 %. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 032422, Frame 0549, or for which a copy thereof is attached.

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Arimi Yamada/

2015-02-12

Signature

Date

Arimi Yamada

70156

Printed or Typed Name

Title or Registration Number

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Takeshi Ookawara et al.

Application No./Patent No.: 13/966,857 Filed/Issue Date: 08/14/2013

Titled: Display Device With Touch Panel

Panasonic Liquid Crystal Display Co., Ltd., a CORPORATION

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☐ The assignee of the entire right, title, and interest.
2. ☒ An assignee of less than the entire right, title, and interest (check applicable box):
- ☒ The extent (by percentage) of its ownership interest is 50%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 027093, Frame 0937, or for which a copy thereof is attached.

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____
- The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
- The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Arimi Yamada/

2015-02-12

Signature

Date

Arimi Yamada

70156

Printed or Typed Name

Title or Registration Number

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt	
EFS ID:	21477103
Application Number:	13966857
International Application Number:	
Confirmation Number:	1196
Title of Invention:	Display Device With Touch Panel
First Named Inventor/Applicant Name:	Takeshi Ookawara
Customer Number:	20457
Filer:	Arimi Yamada/Kyungmok Lee
Filer Authorized By:	Arimi Yamada
Attorney Docket Number:	1497.50463CX1
Receipt Date:	12-FEB-2015
Filing Date:	14-AUG-2013
Time Stamp:	11:05:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	JAPAN_DISPLAY_INC_GPA.PDF	29113 eab5954bbf61a27bf8b8fde4e0bdfa90eca2814e	no	1

Warnings:

Information:

2	Power of Attorney	PLD_POA.PDF	501710	no	2
			344155dce67384a8aac2d478dfa78711e724be17		
Warnings:					
Information:					
3	Assignee showing of ownership per 37 CFR 3.73.	F-373c_JDI_cu.pdf	73719	no	3
			b9953bf9c5b3029dfa7df536dcde1be34aed63ce		
Warnings:					
Information:					
4	Assignee showing of ownership per 37 CFR 3.73.	F-373c_PANASONIC_cu.pdf	73454	no	3
			bf7dda8638647d0a6f4e7e57c996e5b9025c0af4		
Warnings:					
Information:					
Total Files Size (in bytes):			677996		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/966,857	08/14/2013	Takeshi Ookawara	1497.50463CX1

CONFIRMATION NO. 1196

POA ACCEPTANCE LETTER



OC000000073525477

127271
Lowe Hauptman & Ham, LLP
2318 Mill Road
Suite 1400
Alexandria, VA 22314

Date Mailed: 02/24/2015

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/12/2015.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/mbeyene/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



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13/966,857	08/14/2013	Takeshi Ookawara	1497.50463CX1

CONFIRMATION NO. 1196

POWER OF ATTORNEY NOTICE



OC000000073525455

20457
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Date Mailed: 02/24/2015

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/12/2015.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/mbeyene/

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