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SCORE Placeholder Sheet for IFW Content

Application Number: 14451769 Document Date: 08/05/2014

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- Drawing

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Form Revision Date: August 26, 2013

Substitute for form 1449A/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	
				Filing Date	**August 5, 2014**
				First Named Inventor	**Takeshi OOKAWARA**
				Art Unit	
(use as many sheets as necessary)				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	**501.50463CC2**

U.S. PATENT DOCUMENTS

Examiner Initials'	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		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	
		US - 2009/0096763		4/2009	Hinata et al	
		US - 2005/0139398		6/2005	Endo et al	
		US - 2009/0046077		2/2009	Tanaka et al	
		US - 2002/0047969		4/2002	Minakuchi	
		US - 2009/0143141		6/2009	Wells et al	
		US - 2009/0128518		5/2009	Kinoshita et al	
		US - 8,072,436		12/2011	Eriguchi et alo	
		US - 2010/0085322		4/2010	Mamba et al	

FOREIGN PATENT DOCUMENTS

Examiner Initials'	Cite No.[1]	Foreign Patent Document Country Code[3]–Number[4]–Kind Code[5] *(if known)*	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]
		JP 2002-342014	11/29/2002	NEC Microsystems Ltd		abs

Examiner Signature		Date Considered	

*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.

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
Approved for use through 11/30/2014. OMB 0651-0051
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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.

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) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	
Filing Date	August 5, 2014
First Named Inventor	Ookawara et al
Title	Display Device with Touch Panel
Art Unit	
Examiner Name	
Attorney Docket Number	1497.50463CC2

SIGNATURE of Applicant or Patent Practitioner

Signature	/Melvin Kraus/ MK	Date (Optional)	2014-08-05
Name	Melvin Kraus	Registration Number	22466
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)	Japan Display Inc.		

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☑ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 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.

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
Approved for use through 11/30/2014. OMB 0651-0051
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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POWER OF ATTORNEY BY APPLICANT

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

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☑ I hereby appoint the Patent 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 identified above: 020457

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) 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 patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above 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 (if the Applicant is a juristic entity, list the Applicant name in the box):

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☑ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ 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) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature	Kei Nakashima	Date (Optional)	May 21, 2014
Name	Kei Nakashima		
Title	Group Manager, Patent Group I, 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. If more than one applicant, use multiple forms.

☑ Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 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.**

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Application Number	
Filing Date	August 5, 2014
First Named Inventor	Ookawara et al
Title	Display Device with Touch Panel
Art Unit	
Examiner Name	
Attorney Docket Number	1497.50463CC2

SIGNATURE of Applicant or Patent Practitioner

Signature	/Melvin Kraus/	Date (Optional)	2014-08-05
Name	Melvin Kraus	Registration Number	22466
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)	Panasonic Liquid Crystal Display Co., Ltd.		

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☑ *Total of 1 forms are submitted.

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PTO/AIA/82B (07-13)
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POWER OF ATTORNEY BY APPLICANT

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

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☑ I hereby appoint the Patent 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 identified above: 020457

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) 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 patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above 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 (if the Applicant is a juristic entity, list the Applicant name in the box):

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☑ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ 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) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature		Date (Optional)	June 6, 2014
Name	Kazuhiko Ishimaru		
Title	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. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 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 Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	Display Device with Touch Panel
First Named Inventor/Applicant Name:	Takeshi Ookawara
Filer:	Melvin Kraus/joy aiken
Attorney Docket Number:	1497.50463CC2

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:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**1600**

Electronic Acknowledgement Receipt

EFS ID:	19778207
Application Number:	14451769
International Application Number:	
Confirmation Number:	2038
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:	1497.50463CC2
Receipt Date:	05-AUG-2014
Filing Date:	
Time Stamp:	14:45:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$1600
RAM confirmation Number	927
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1	Transmittal of New Application	utl.pdf	177540 55d3282f137338441f30cfe79bac0fd5dfef8820	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee.pdf	182092 9b712e0ed39c817d8a09c772193ba99b2cb71d32	no	1
Warnings:					
Information:					
3	Specification	spec.pdf	2016703 1ab375ec28d4d9cf160ef6834e63267d7185a526	no	27
Warnings:					
Information:					
4	Drawings-other than black and white line drawings	dwg.pdf	470539 cfe527abbe187ed877cbe71fb1886036f8b36781	no	10
Warnings:					
Information:					
5	Oath or Declaration filed	dec-ookawara.pdf	279462 315ca7ec81c028e05f847eb1ea514a638437083e	no	2
Warnings:					
Information:					
6	Oath or Declaration filed	oath-matsudate.pdf	279936 72390b8d8522ef2e19022844b3af69a2b1d76122	no	2
Warnings:					
Information:					
7	Application Data Sheet	data.pdf	1561426 d836d2ce149ba0c198286469ab2c646d0870aa96	no	8
Warnings:					
Information:					
8	Transmittal Letter	ids.pdf	97316 131edf51c1f96c9396c55f010f0d4f75107b79be	no	2
Warnings:					
Information:					
9	Information Disclosure Statement (IDS) Form (SB08)	sb08.pdf	217169 403b567d3a994545a28ea60f8ad54a7dd9983a9f	no	1
Warnings:					
Information:					

This is not an USPTO supplied IDS fillable form					
10	Power of Attorney	poa-jdi.pdf	370500 8f3fee3911359e43315bc1b4faa6cbcfc81510a7	no	2
Warnings:					
Information:					
11	Power of Attorney	poa-pan.pdf	375577 afeafcebe42f6c8512d40fffda12ab9d4b5ce574	no	2
Warnings:					
Information:					
12	Fee Worksheet (SB06)	fee-info.pdf	32909 4edee9e7da7eb17baa3d4555d2414784eb0a28f5	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	6061169		

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.

<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.

<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.

<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.

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	**1497.50463CC2**
First Inventor	**Takeshi OOKAWARA**
Title	**Display Device with Touch Panel**
Express Mail Label No.	

APPLICATION ELEMENTS
SEE MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: **Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450**

1. ☒ **Fee Transmittal Form** (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)

2. ☐ **Applicant claims small entity status.**
See 37 CFR 1.27.

3. ☒ **Specification** [*Total Pages* 27]
Both the claims and abstract must start on a new page
(For information on the preferred arrangement, see MPEP 608 01(a))

4. ☒ **Drawing(s)** *(35 U.S.C. 113)* [*Total Sheets* 10]

5. **Oath or Declaration** [*Total Sheets 4 (2 pages each)*]
   a. ☐ Newly executed (original or copy)
   b. ☒ Copy from a prior application (37 CFR 1.63 (d))
   (for continuation/divisional with Box 18 completed)
      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 *(Appendix)*
   i. ☐ Landscape Table on CD

8. **Nucleotide and/or Amino Acid Sequence Submission**
(if applicable, all necessary)
   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**
(when there is an assignee)

11. ☐ **English Translation Document** *(if applicable)*

12. ☒ **Information Disclosure Statement** (PTO/SB/08 OR PTO-1449) ☐ Copies of Citations attached

13. ☐ **Preliminary Amendment**

14. ☐ **Return Receipt Postcard** (MPEP 503)
(Should be specifically itemized)

15. ☐ **Certified Copy of Priority Document(s)**
(if foreign priority is claimed)

16. ☐ **Nonpublication Request** under 35 U.S.C. 122 (b)(2)(B)(i).
Applicant must attach form PTO/SB/35 or equivalent.

17. ☒ **Other:** Power of Attorneys (2)

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.: **13/966,857**

Prior application information: *Examiner:* _____ *Art Unit:* _____

19. CORRESPONDENCE ADDRESS : THE ADDRESS ASSOCIATED WITH CUSTOMER NUMBER **020457**

Signature	**/Melvin Kraus/** MK	*Date*	**AUGUST 5, 2014**
Name (Print/Type)	**Melvin Kraus**	*Registration No. (Attorney/Agent)*	22,466

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.**

Effective on 12/08/2004
Fee pursuant to the Consolidated Appropriations Act. 2005 (H.R. 4818).

FEE TRANSMITTAL

For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT	($)1,600.00

Complete if Known	
Application Number	
Filing Date	August 5, 2014
First Named Inventor	Takeshi OOKAWARA
Examiner Name	
Art Unit	
Attorney Docket No.	1497.50463CC2

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 any additional fee(s) or underpayments of fee (s). under 37 CFR 1.16 and 1.17
☐ Charge fee(s) indicated below, except for the filing fee
☒ 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

	FILING FEES	Small Entity	SEARCH FEES	Small Entity	EXAMINATION FEES	Small Entity	
Application Type	**Fee ($)**	**Fee ($)**	**Fee ($)**	**Fee ($)**	**Fee ($)**	**Fee ($)**	**Fees Paid $**
Utility	280	140	600	300	720	360	1,600.00
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

Fee Description	**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	**Extra Claims**	**Fee ($)**	**Fee Paid ($)**
9 -20 or HP =	0	x 0	= 0

HP= highest number of total claims paid for, if greater than 20.

Indep. Claims	**Extra Claims**	**Fee ($)**	**Fee Paid ($)**
1 -3 or HP =	0	x 0	= 0

HP=highest number of independent claims paid for, if greater than 3.

Multiple Dependent Claims	
Fee ($)	**Fee Paid ($)**
	0

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($)**	**Fee Paid ($)**
-100	0	/50= (round up to a whole number) x	400.00 =	0

4. OTHER FEE (S)

	Fee Paid ($)
Non-English Specification, $140 fee (no small entity discount)	0
Other (e.g., late filing surcharge):	0

SUBMITTED BY				**Complete** (*if applicable*)	
Signature	/Melvin Kraus/ MK	*Registration No. (Attorney/Agent)*	22,466	*Telephone*	(703) 312-6600
Name (Print/Type)	Melvin Kraus			*Date*	August 5, 2014

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 your 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. 13/966,857, filed August 14, 2013, which is a continuation application of US Application Serial No. 12/649,414, filed December 30, 2009, now US Patent No. 8,519,969, 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

BOE Ex. 1002, p. 14
BOE v. Paneltouch
IPR2025-01245

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

BOE Ex. 1002, p. 15
BOE v. Paneltouch
IPR2025-01245

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

BOE Ex. 1002, p. 16
BOE v. Paneltouch
IPR2025-01245

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,

BOE Ex. 1002, p. 17
BOE v. Paneltouch
IPR2025-01245

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]

BOE Ex. 1002, p. 18
BOE v. Paneltouch
IPR2025-01245

(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 uneveness 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.

BOE Ex. 1002, p. 19
BOE v. Paneltouch
IPR2025-01245

[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;

BOE Ex. 1002, p. 20
BOE v. Paneltouch
IPR2025-01245

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;

BOE Ex. 1002, p. 21
BOE v. Paneltouch
IPR2025-01245

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).

BOE Ex. 1002, p. 22
BOE v. Paneltouch
IPR2025-01245

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

BOE Ex. 1002, p. 23
BOE v. Paneltouch
IPR2025-01245

(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

BOE Ex. 1002, p. 24
BOE v. Paneltouch
IPR2025-01245

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

BOE Ex. 1002, p. 25
BOE v. Paneltouch
IPR2025-01245

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.

BOE Ex. 1002, p. 26
BOE v. Paneltouch
IPR2025-01245

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

BOE Ex. 1002, p. 27
BOE v. Paneltouch
IPR2025-01245

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

BOE Ex. 1002, p. 28
BOE v. Paneltouch
IPR2025-01245

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

BOE Ex. 1002, p. 29
BOE v. Paneltouch
IPR2025-01245

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

BOE Ex. 1002, p. 30
BOE v. Paneltouch
IPR2025-01245

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

BOE Ex. 1002, p. 31
BOE v. Paneltouch
IPR2025-01245

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.

BOE Ex. 1002, p. 32
BOE v. Paneltouch
IPR2025-01245

[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

BOE Ex. 1002, p. 33
BOE v. Paneltouch
IPR2025-01245

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.

BOE Ex. 1002, p. 34
BOE v. Paneltouch
IPR2025-01245

[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

BOE Ex. 1002, p. 35
BOE v. Paneltouch
IPR2025-01245

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.

BOE Ex. 1002, p. 36
BOE v. Paneltouch
IPR2025-01245

What is claimed is:

1. 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 at least one external terminal is 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 emitting display panel under the touch panel; and

a circular polarizing plate arranged at a side of the touch panel opposite to the organic emitting display panel;

wherein the organic emitting display panel, the touch panel, and the circular polarizing plate are arranged in this order.

2. A display device with a touch panel according to claim 1, wherein each of the plurality of second lines and the plurality of first lines is made of metal; and

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

3. A display device with a touch panel according to claim 2, wherein the touch panel includes a plurality of wiring groups;

wherein each of plurality of wiring groups has some of the first lines; and

wherein some of the first lines in each of plurality of wiring groups are bonded with each other.

BOE Ex. 1002, p. 37
BOE v. Paneltouch
IPR2025-01245

4. A display device with a touch panel according to claim 2,

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.

5. A display device with a touch panel according to claim 3,

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.

6. A display device with a touch panel according to claim 2, 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.

7. A display device with a touch panel according to claim 3,

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 the first lines.

8. A display device with a touch panel according to claim 1,

BOE Ex. 1002, p. 38
BOE v. Paneltouch
IPR2025-01245

wherein the touch panel is a resistance-film-type touch panel.

9. A display device with a touch panel according to claim 1, further including:

a first adhesive layer between the touch panel and the organic emitting display panel; and

a second adhesive layer between the touch panel and the circular polarizing plate;

wherein the touch panel and the organic emitting display panel are fixed with each other by the first adhesive layer, and the touch panel and the circular polarizing plate are fixed with each other by the second adhesive layer.

BOE Ex. 1002, p. 39
BOE v. Paneltouch
IPR2025-01245

ABSTRACT OF DISCLOSURE

A display device with a touch panel includes the touch panel having a first substrate having a detection area to detect a coordinate and an outside area in which at least one external terminal is 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, wherein each of the plurality of first lines traverse each of the plurality of second lines. An organic emitting display panel is arranged under the touch panel, and a circular polarizing plate arranged at a side of the touch panel opposite to the organic emitting display panel. The organic emitting display panel, the touch panel, and the circular polarizing plate are arranged in this order.

BOE Ex. 1002, p. 40
BOE v. Paneltouch
IPR2025-01245

FIG. 1

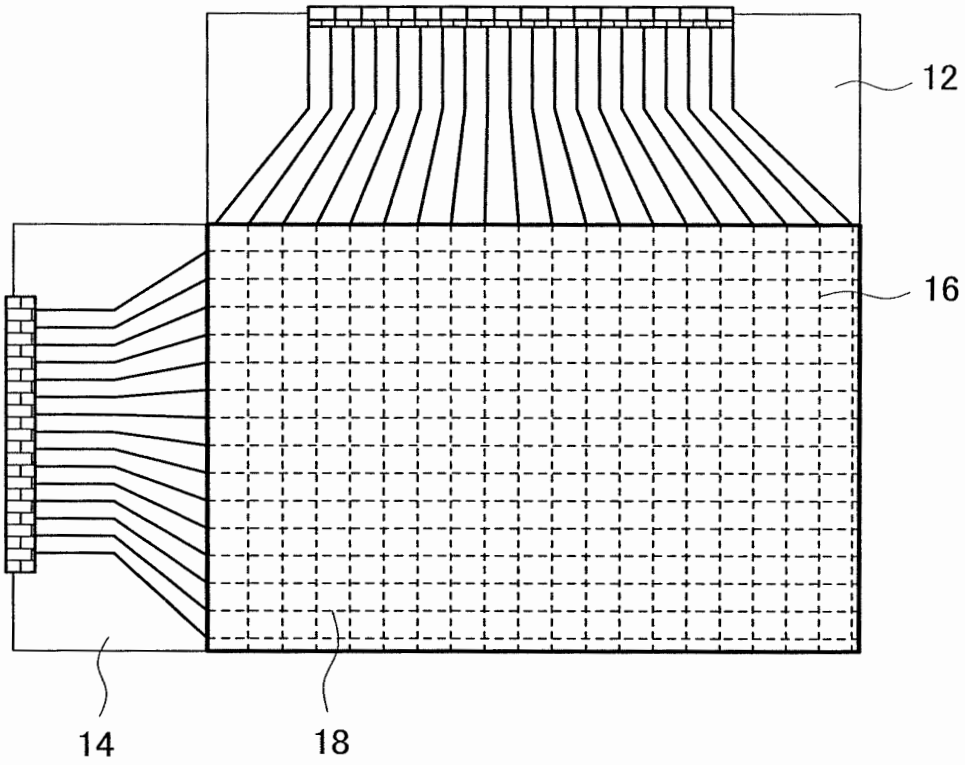
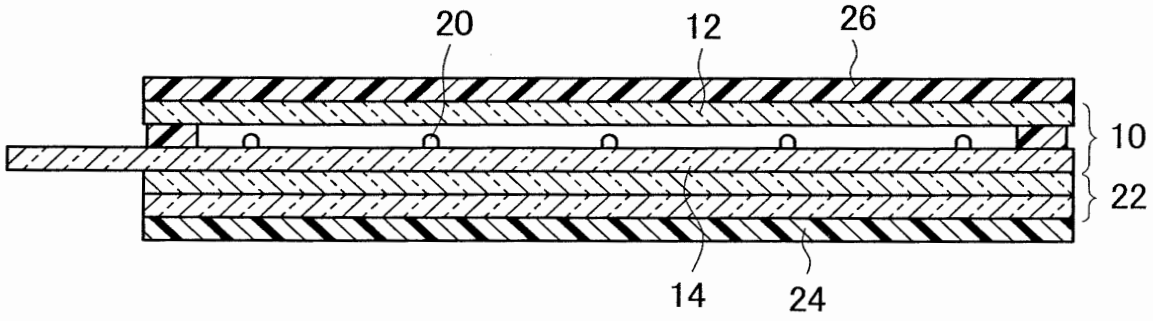


FIG. 2



BOE Ex. 1002, p. 41
BOE v. Paneltouch
IPR2025-01245

FIG. 3

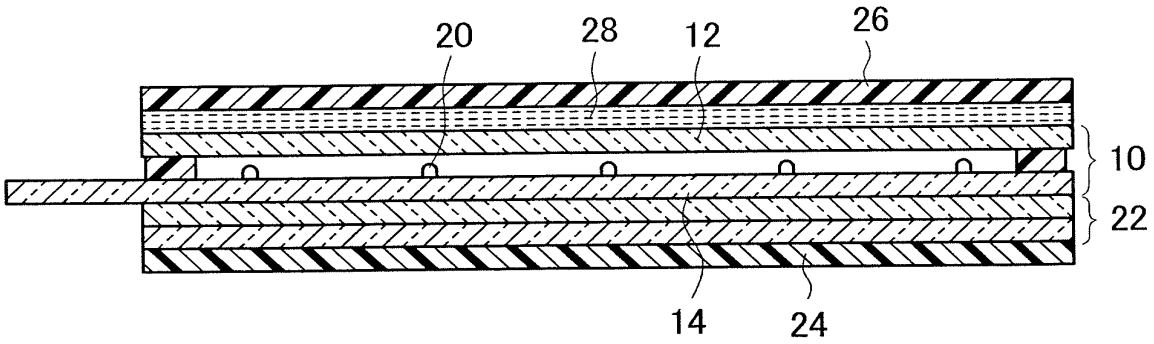
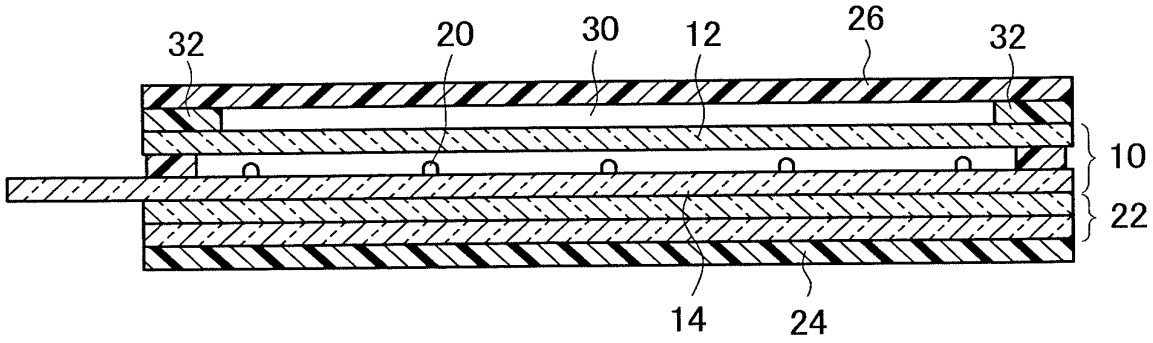


FIG. 4



BOE Ex. 1002, p. 42
BOE v. Paneltouch
IPR2025-01245

FIG. 5

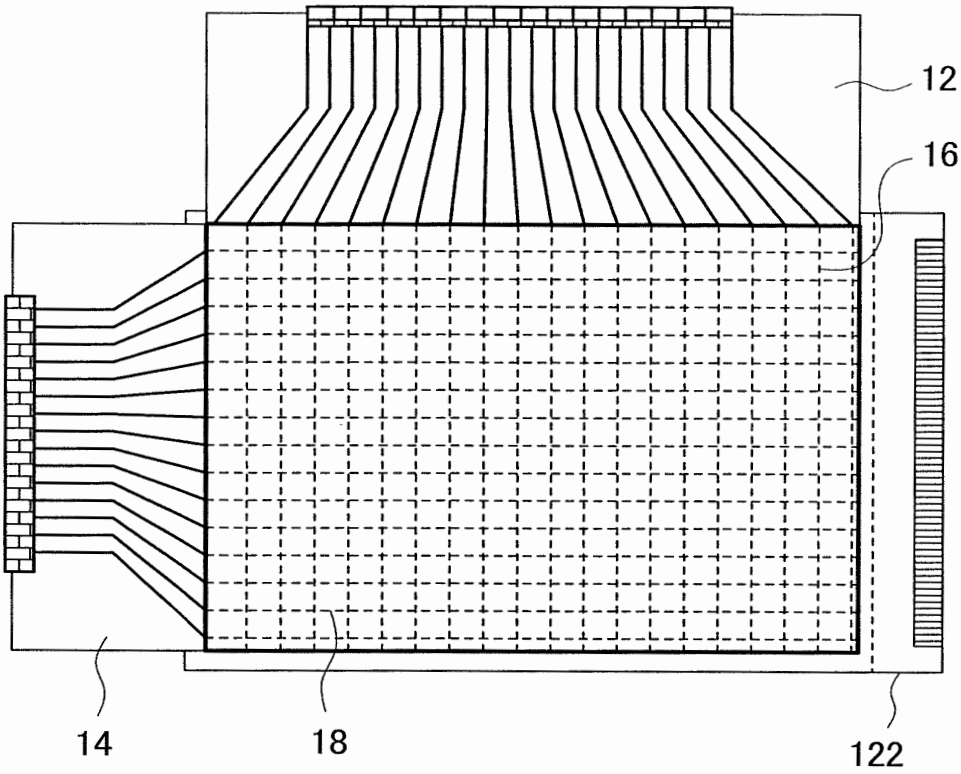
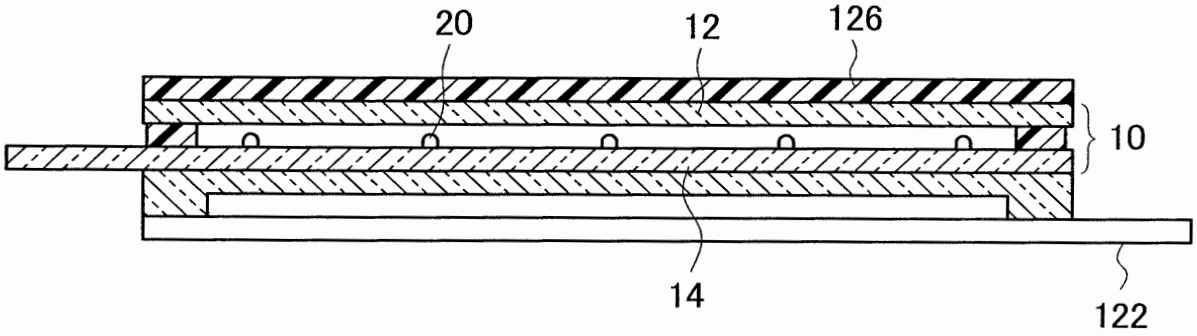


FIG. 6



BOE Ex. 1002, p. 43
BOE v. Paneltouch
IPR2025-01245

FIG. 7

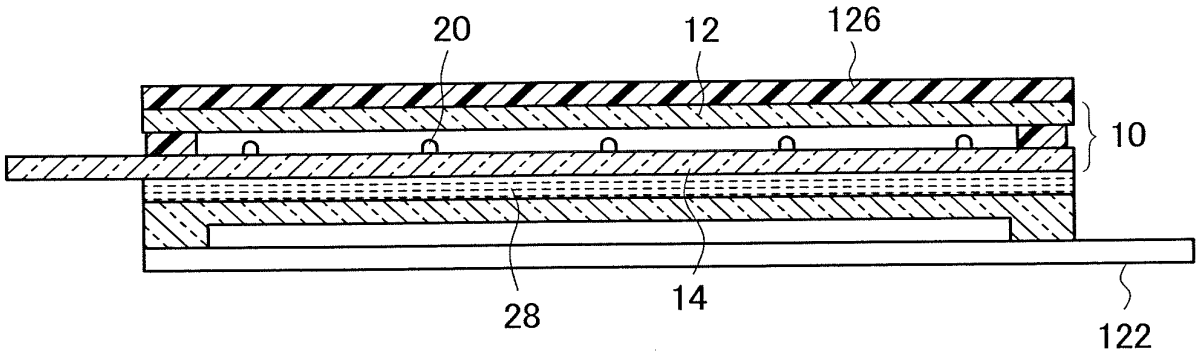
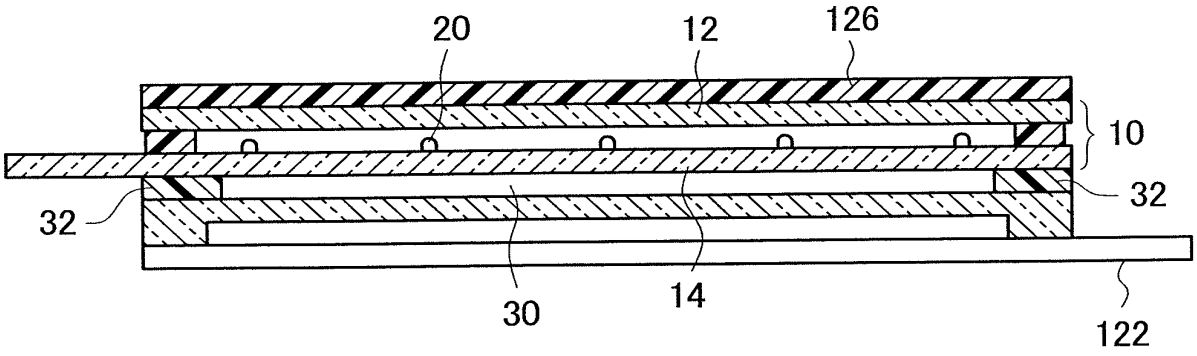


FIG. 8



BOE Ex. 1002, p. 44
BOE v. Paneltouch
IPR2025-01245

FIG. 9

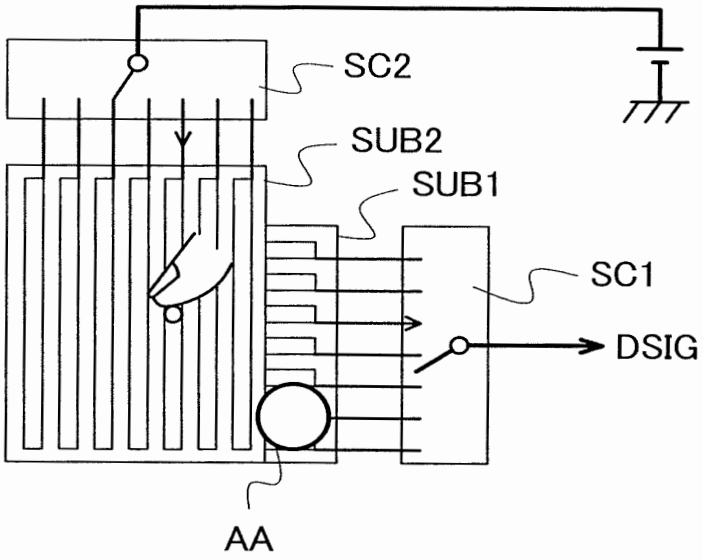
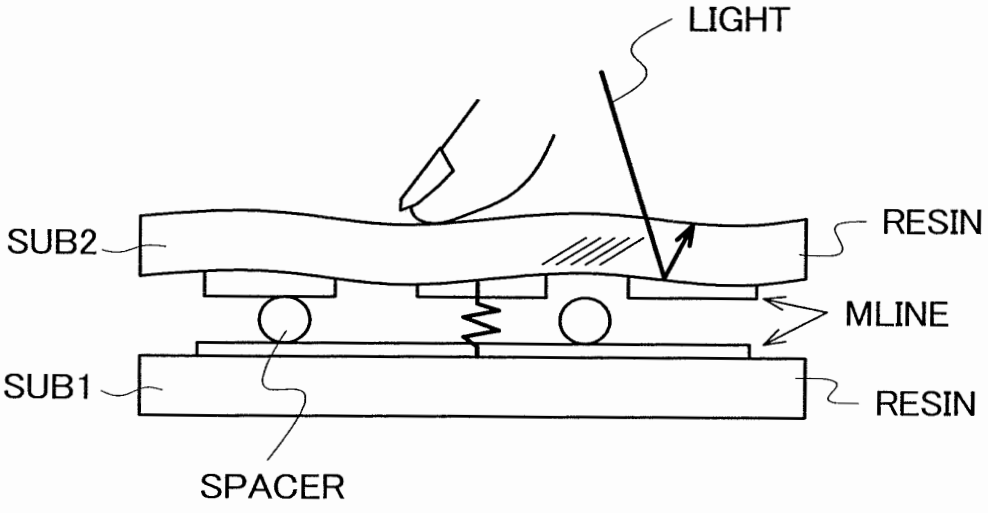


FIG. 10



BOE Ex. 1002, p. 45
BOE v. Paneltouch
IPR2025-01245

FIG. 11

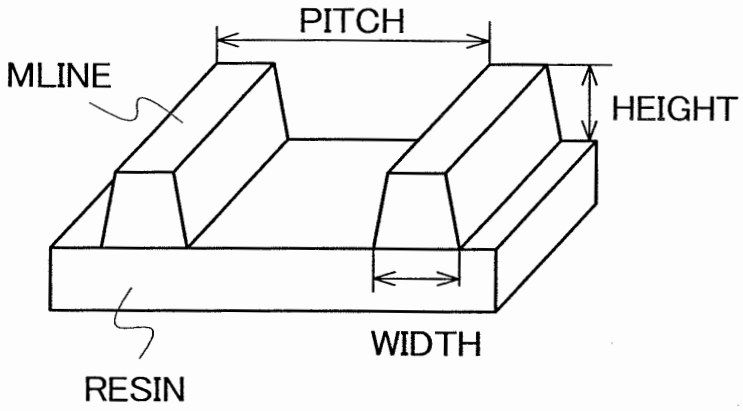
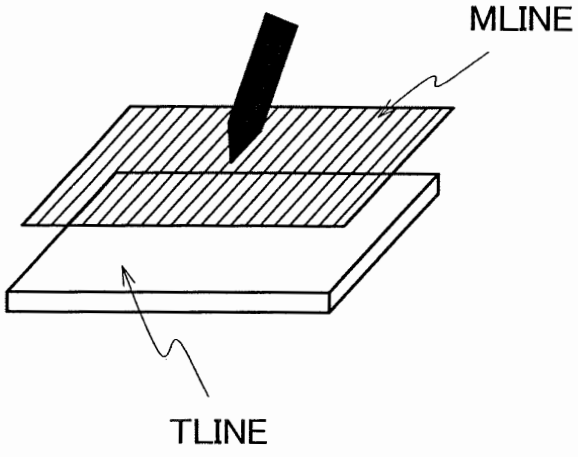


FIG. 12



BOE Ex. 1002, p. 46
BOE v. Paneltouch
IPR2025-01245

FIG. 13

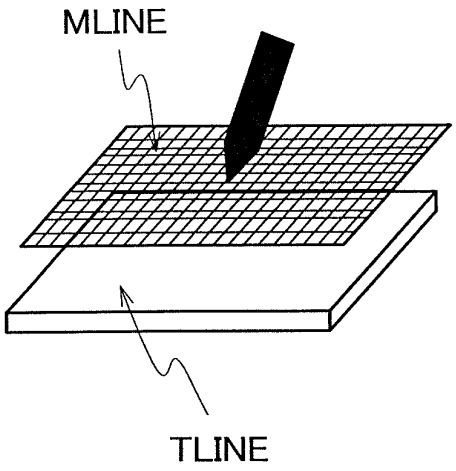
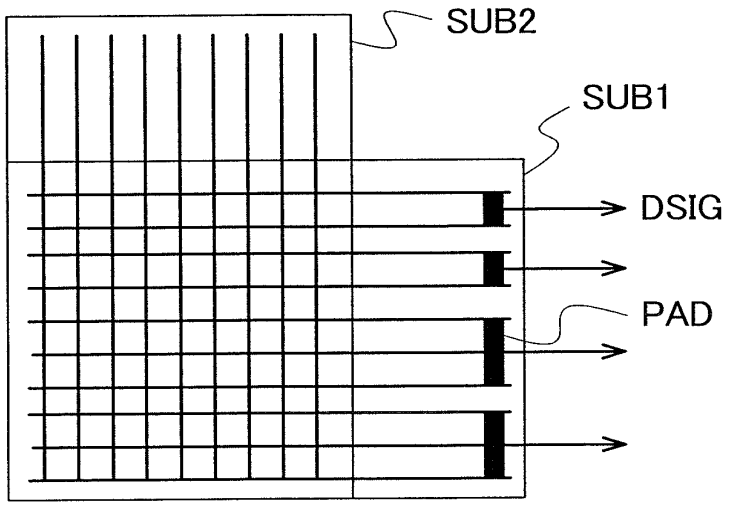


FIG. 14



BOE Ex. 1002, p. 47
BOE v. Paneltouch
IPR2025-01245

FIG. 15

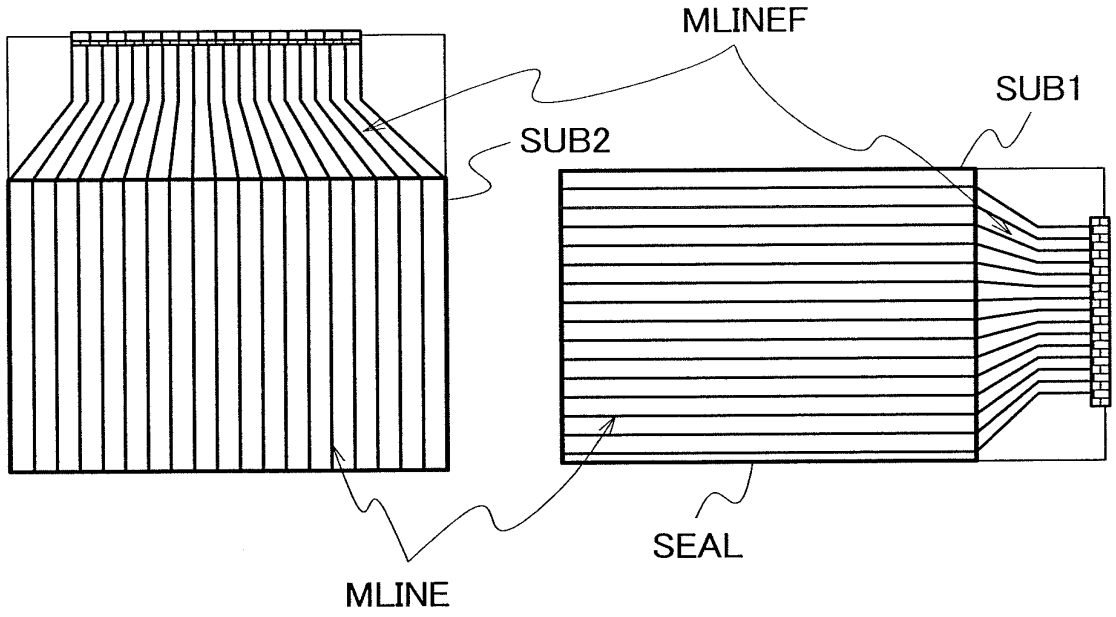


FIG. 16

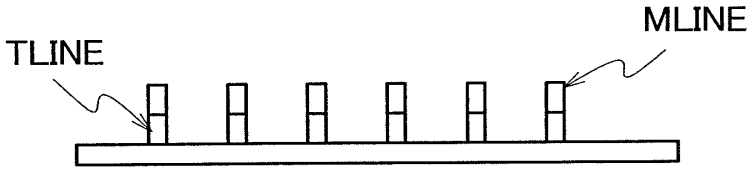
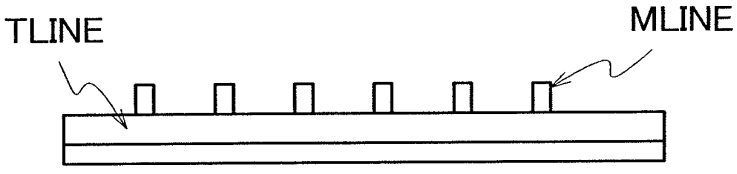


FIG. 17



BOE Ex. 1002, p. 48
BOE v. Paneltouch
IPR2025-01245

FIG. 18

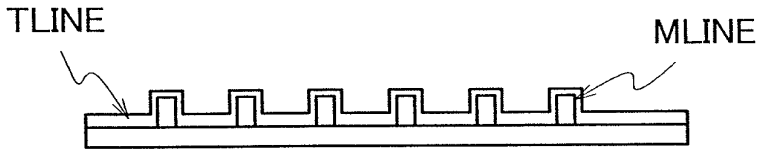


FIG. 19

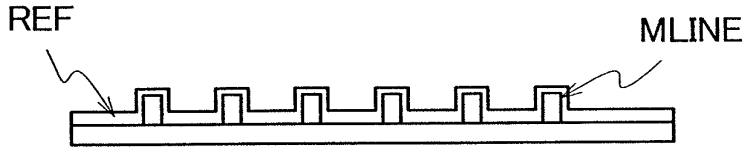
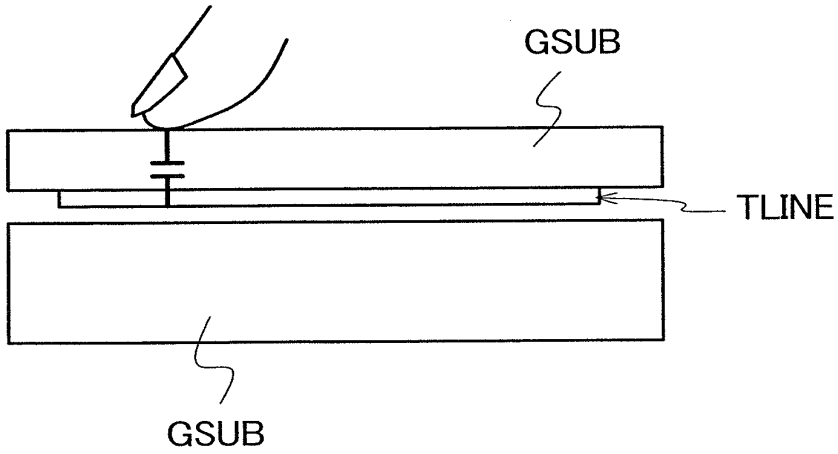
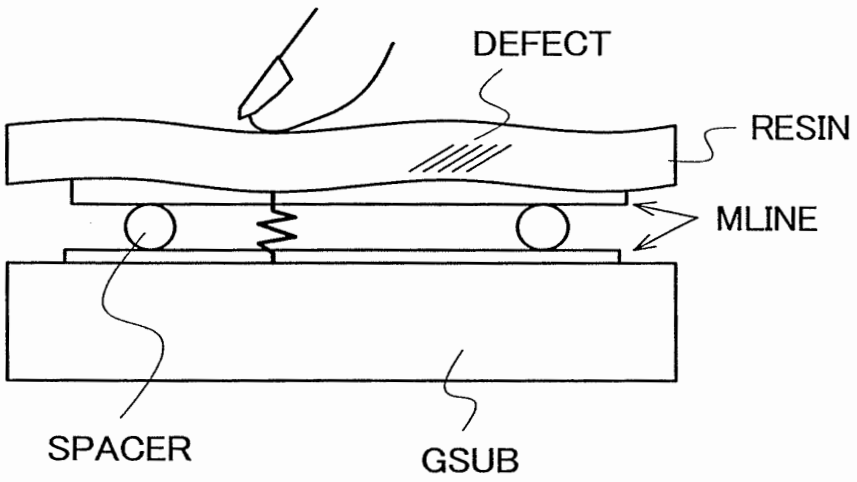


FIG. 20 (Prior Art)



BOE Ex. 1002, p. 49
BOE v. Paneltouch
IPR2025-01245

FIG. 21 (Prior Art)



BOE Ex. 1002, p. 50
BOE v. Paneltouch
IPR2025-01245

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.

BOE Ex. 1002, p. 51
BOE v. Paneltouch
IPR2025-01245

(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.

BOE Ex. 1002, p. 52
BOE v. Paneltouch
IPR2025-01245

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

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§ 1.56 Duty to disclose information material to patentability.

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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.

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(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.

BOE Ex. 1002, p. 53
BOE v. Paneltouch
IPR2025-01245

(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.

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(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.

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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.

BOE Ex. 1002, p. 54
BOE v. Paneltouch
IPR2025-01245

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1497.50463CC2
	Application Number	
Title of Invention	Display Device with Touch Panel	

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.
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.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Takeshi		Ookawara	

Residence Information (Select One) ○ US Residency ◉ Non US Residency ○ Active US Military Service

City	Mobara	Country of Residence i	JP

Mailing Address of Inventor:

Address 1	c/o Japan Display Inc.		
Address 2	3-7-1, Nishi-Shinbashi Minato-ku		
City	Tokyo	**State/Province**	
Postal Code	105-0003	**Country** i	JP

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Noriharu		Matsudate	

Residence Information (Select One) ○ US Residency ◉ Non US Residency ○ Active US Military Service

City	Kujukuri	Country of Residence i	JP

Mailing Address of Inventor:

Address 1	c/o Japan Display Inc.		
Address 2	3-7-1, Nishi-Shinbashi Minato-ku		
City	Tokyo	**State/Province**	
Postal Code	105-0003	**Country** i	JP

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

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BOE v. Paneltouch
IPR2025-01245

PTO/AIA/14 (12-13)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1497.50463CC2
	Application Number	
Title of Invention	Display Device with Touch Panel	

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).			
☐ An Address is being provided for the correspondence Information of this application.			
Customer Number	020457		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	Display Device with Touch Panel		
Attorney Docket Number	1497.50463CC2	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	10	**Suggested Figure for Publication (if any)**	

Filing By Reference :

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	020457		

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1497.50463CC2
	Application Number	
Title of Invention	Display Device with Touch Panel	

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the application number blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	13/966857	2013-08-14

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13/966857	Continuation of	12/649414	2009-12-30	8519969	2013-08-27

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

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) [i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

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

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

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1497.50463CC2
	Application Number	
Title of Invention	Display Device with Touch Panel	

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

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.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1497.50463CC2
	Application Number	
Title of Invention	Display Device with Touch Panel	

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 :

If the Applicant is an Organization check here. ☒

Organization Name	Japan Display Inc.		
Mailing Address Information:			
Address 1	3-7-1, Nishi-Shinbashi Minato-ku		
Address 2			
City	Tokyo	**State/Province**	
Country [i]	JP	Postal Code	105-0003
Phone Number		Fax Number	
Email Address			

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

Applicant 2 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 :

BOE Ex. 1002, p. 59
BOE v. Paneltouch
IPR2025-01245

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1497.50463CC2
	Application Number	
Title of Invention	Display Device with Touch Panel	

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. Add

Assignee Information including Non-Applicant Assignee Information:

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

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication . An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

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

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

BOE Ex. 1002, p. 60
BOE v. Paneltouch
IPR2025-01245

PTO/AIA/14 (12-13)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1497.50463CC2
	Application Number	
Title of Invention	Display Device with Touch Panel	

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	/Melvin Kraus/			Date (YYYY-MM-DD)	2014-08-05
First Name	Melvin	Last Name	Kraus	Registration Number	22466
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.

BOE Ex. 1002, p. 62
BOE v. Paneltouch
IPR2025-01245

1497.50463CC2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): OOKAWARA et al

Serial No.: (not yet assigned)

Filed: August 5, 2014

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 5, 2014

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. 13/966,857, filed August 14, 2013 and Serial No. 12/649,414, filed December 30, 2009.

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

BOE Ex. 1002, p. 63
BOE v. Paneltouch
IPR2025-01245

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: 1497.50463CC2) and please credit any excess fees to such deposit account.

Respectfully submitted,

/Melvin Kraus/ MK

Melvin Kraus
Registration No. 22,466
ANTONELLI, TERRY, STOUT & KRAUS, LLP

MK/jla
Attachment
(703) 312-6600

BOE Ex. 1002, p. 64
BOE v. Paneltouch
IPR2025-01245

PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/451,769	Filing Date 08/05/2014	☐ To be Mailed

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)		
FOR	NUMBER FILED	NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ 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).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						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 number found in the appropriate box in column 1.

LIE
/PAMELA v. THERATT/

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

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	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/451,769	08/05/2014	2621	1600	1497.50463CC2	9	1

CONFIRMATION NO. 2038

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

FILING RECEIPT

OC00000070178465

Date Mailed: 08/14/2014

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)

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

Power of Attorney: The patent practitioners associated with Customer Number 020457

Domestic Priority data as claimed by applicant

This application is a CON of 13/966,857 08/14/2013 PAT 8803836
which 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: 08/13/2014

BOE Ex. 1002, p. 66
BOE v. Paneltouch
IPR2025-01245

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/451,769**

Projected Publication Date: 11/20/2014

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).

BOE Ex. 1002, p. 67
BOE v. Paneltouch
IPR2025-01245

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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BOE Ex. 1002, p. 68
BOE v. Paneltouch
IPR2025-01245

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 14/451,769

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
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), (i), 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))	9 minus 20 =	*			OR	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) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)		RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	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.

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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 Date of Application:	２００９年　１月１３日
出願番号 Application Number:	特願２００９－００４８７４
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	ＪＰ２００９－００４８７４
出願人 Applicant(s):	株式会社ジャパンディスプレイ パナソニック液晶ディスプレイ株式会社

２０１４年　８月２２日

特許庁長官
Commissioner,
Japan Patent Office

伊藤 仁

BOE Ex. 1002, p. 70
BOE v. Paneltouch
IPR2025-01245

【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
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　【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

BOE Ex. 1002, p. 71
BOE v. Paneltouch
IPR2025-01245

【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パ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ので、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

BOE Ex. 1002, p. 74
BOE v. Paneltouch
IPR2025-01245

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１６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が接触して電気的に導通する。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に第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、例えばシリコー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の下のクッション層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10μｍ以下にされた銅箔をPETフィルムと化粧鋼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、金属配線を線順次に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、金属配線を線順次に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ラート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ている。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１３～２０μｍ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３００１ｐｉ（line per inch）の精細度を達成することが充分に可能であり、従来例では１０ｐｐｉ（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１０μｍ，厚さも１０μｍ程度で十分に製作可能である為、解像度を１００１ｐｉ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３００１ｐｉ以上の精細度が充分に可能となる為、現状の分解能が１０ｐｐｉ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１０μｍ）である為、従来の透明電極（厚さ数１００ｎｍ）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

BOE Ex. 1002, p. 77
BOE v. Paneltouch
IPR2025-01245

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、大型化対応の為には効果がある。

【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MLNE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】

BOE Ex. 1002, p. 78
BOE v. Paneltouch
IPR2025-01245

［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ＳｉＯ２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】

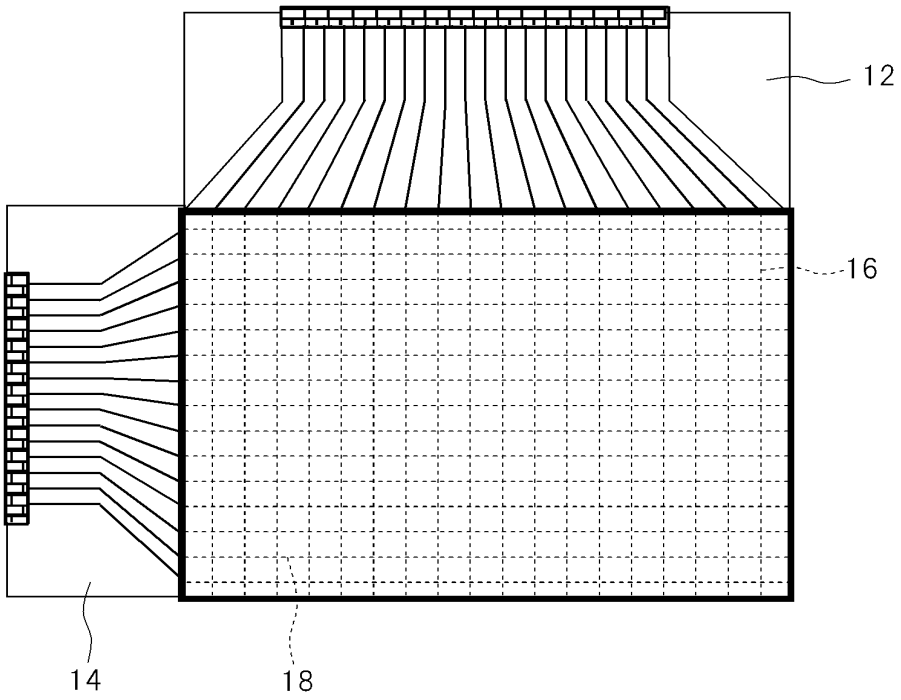
１０　タッチパネル、１２　第１基板、１４　第２基板、１６　第１電極、１８　第２電極、２０　スペーサ、２２　表示パネル、２４　第１偏光板、２６　樹脂フィルム、２８　クッション層、３０　エアクッション層、３２　シール材。

BOE Ex. 1002, p. 79
BOE v. Paneltouch
IPR2025-01245

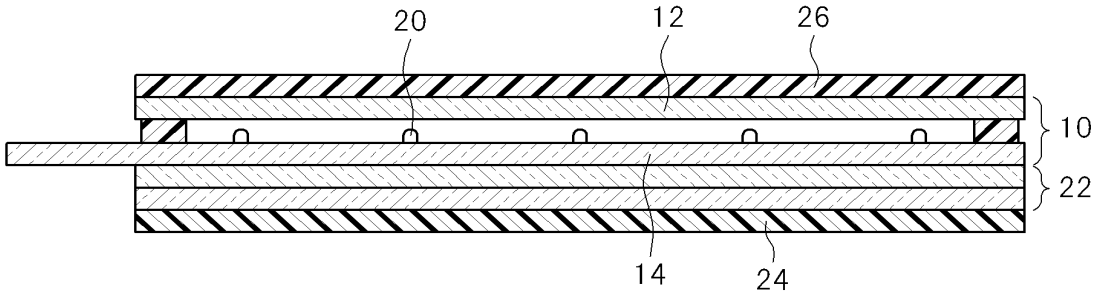
【書類名】特許請求の範囲
【請求項１】
　第１基板と、前記第１基板と間隔をあけて対向する第２基板と、前記第１基板の、前記第２基板と対向する面に形成された複数の配線ラインからなる第１電極と、前記第２基板の、前記第１基板と対向する面に形成された第２電極と、を有するタッチパネルと、
　前記第２基板の、前記第１基板とは反対側に取り付けられた表示パネルと、
　前記第１基板の、前記第２基板とは反対側に貼り付けられた樹脂フィルムと、
　を含むことを特徴とするタッチパネルディスプレイ装置。
【請求項２】
　請求項１に記載されたタッチパネルディスプレイ装置において、
　前記表示パネルは、偏光板を除く液晶表示パネルであり、
　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】

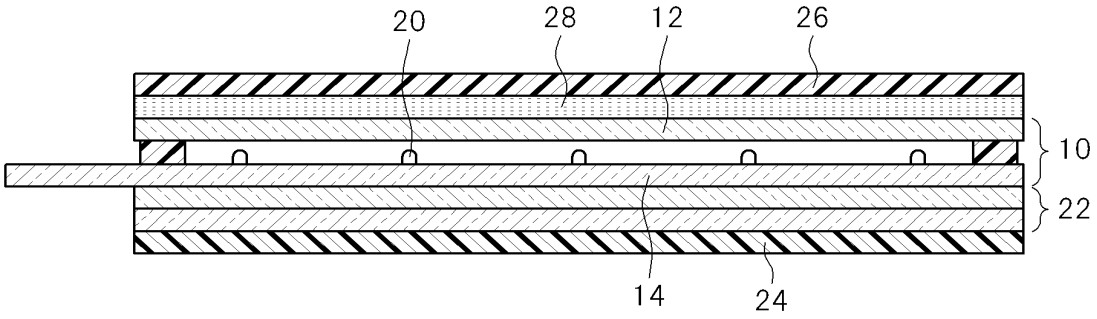


【図２】

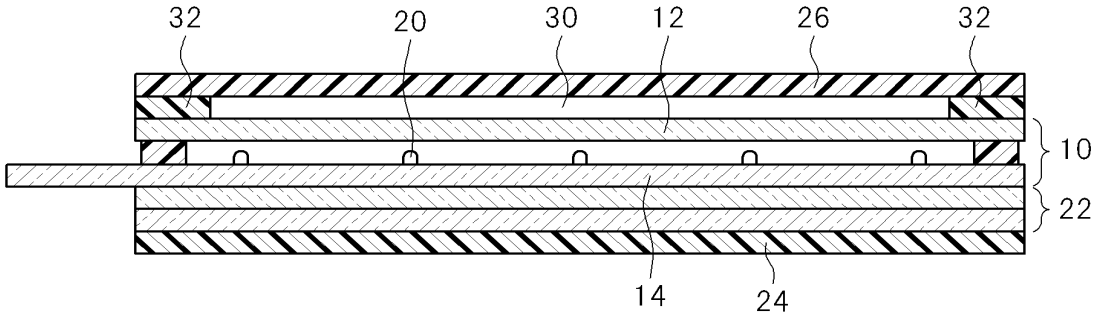


BOE Ex. 1002, p. 82
BOE v. Paneltouch
IPR2025-01245

【図３】

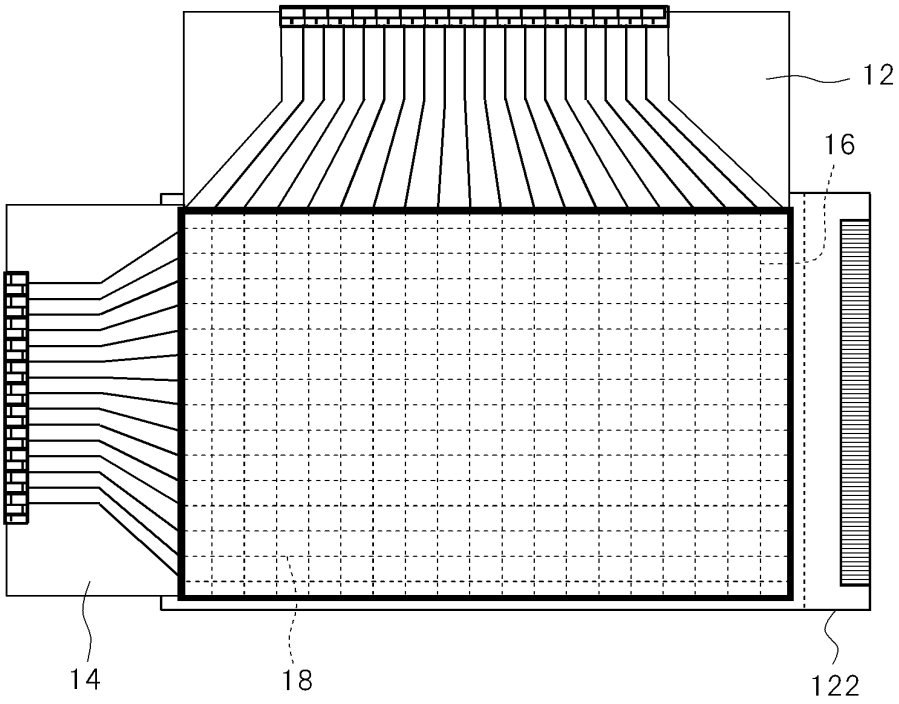


【図４】

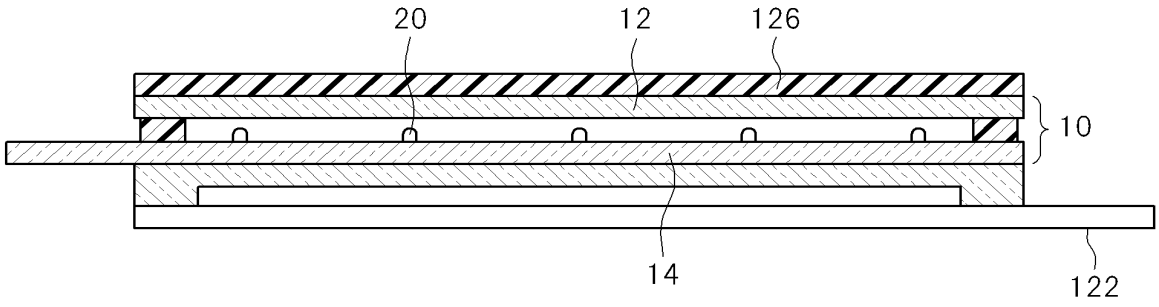


BOE Ex. 1002, p. 83
BOE v. Paneltouch
IPR2025-01245

【図５】

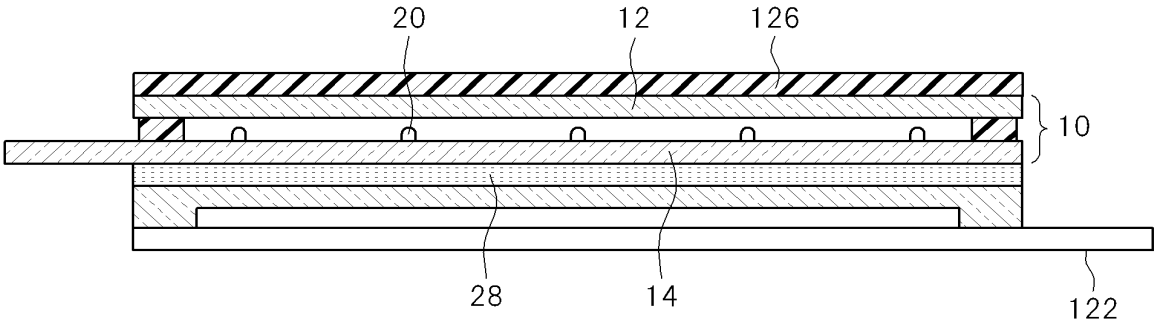


【図６】

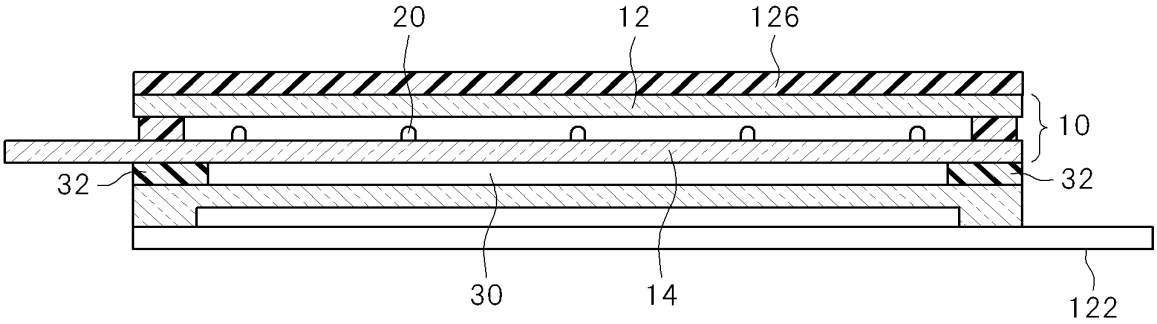


BOE Ex. 1002, p. 84
BOE v. Paneltouch
IPR2025-01245

【図７】

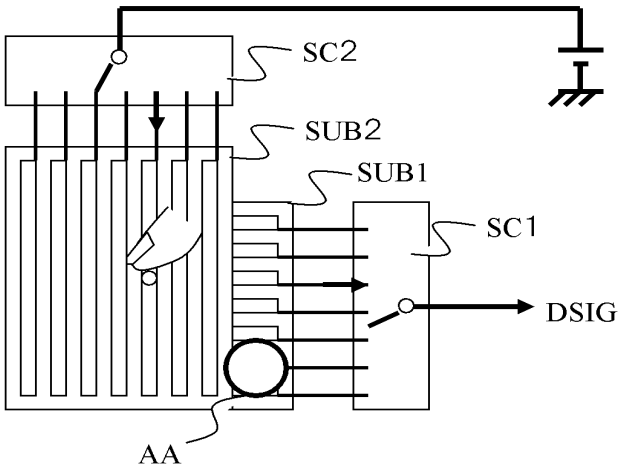


【図８】

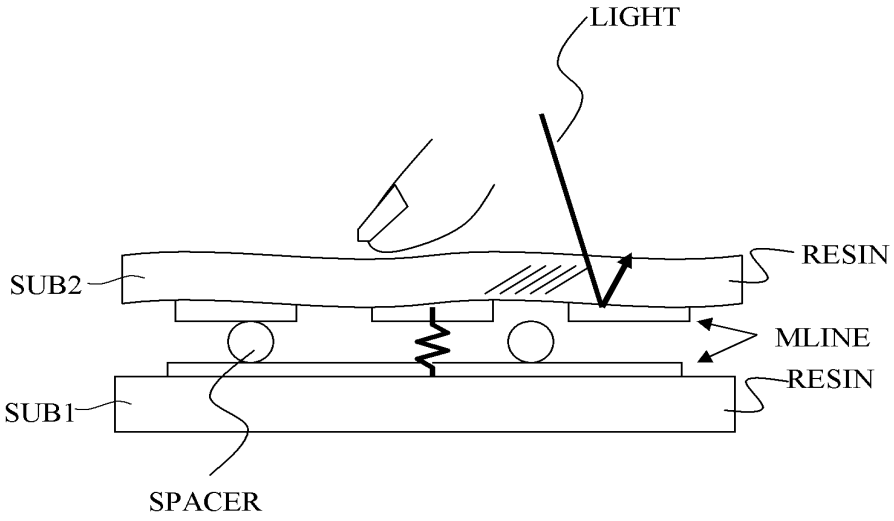


BOE Ex. 1002, p. 85
BOE v. Paneltouch
IPR2025-01245

【図９】

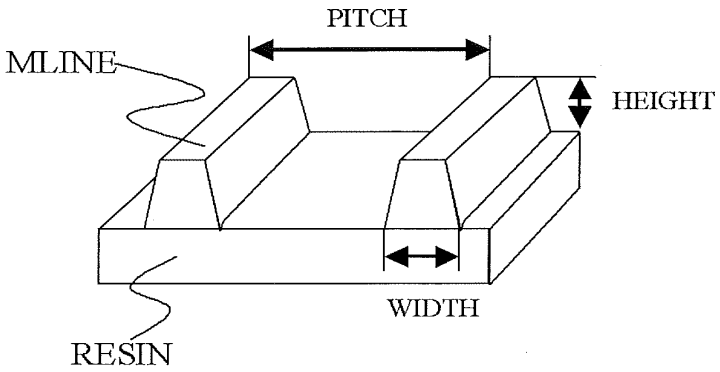


【図１０】

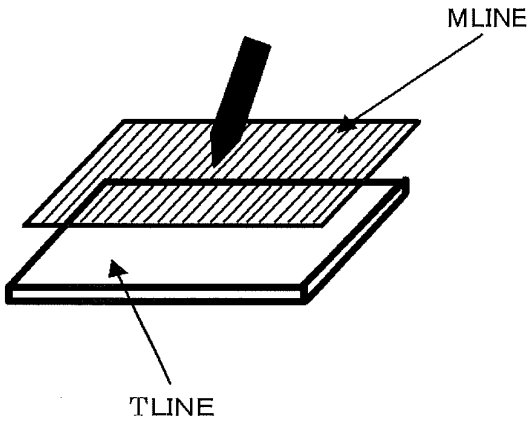


BOE Ex. 1002, p. 86
BOE v. Paneltouch
IPR2025-01245

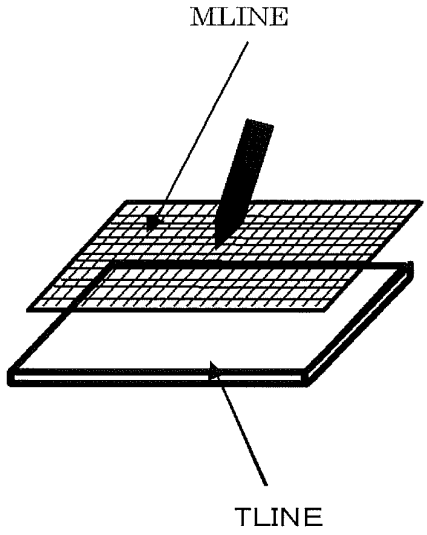
【図１１】



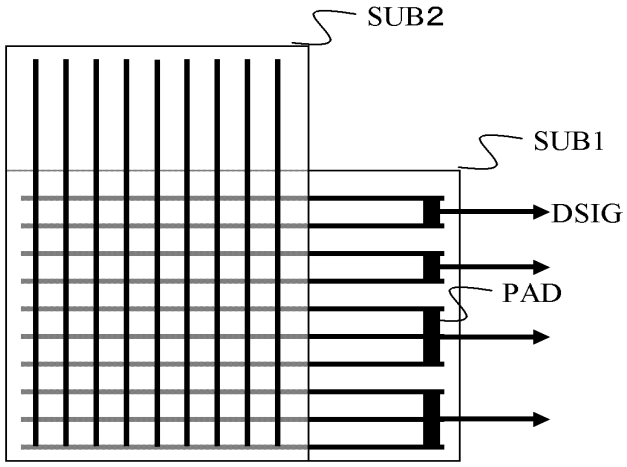
【図１２】



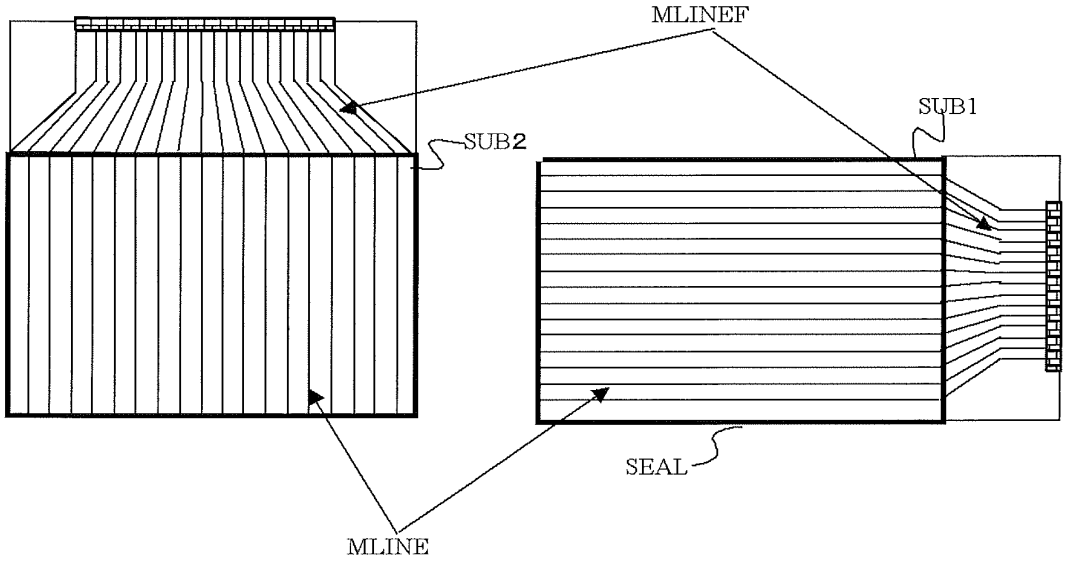
【図１３】



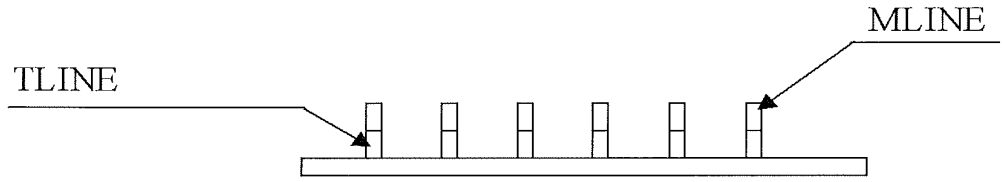
【図１４】



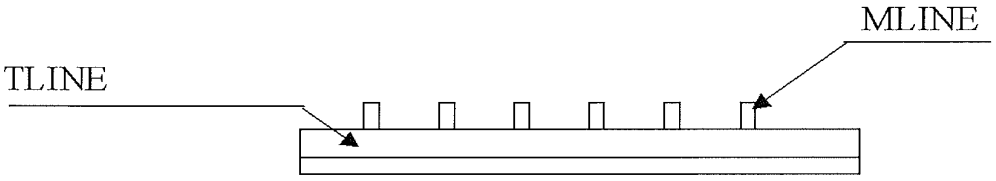
【図１５】



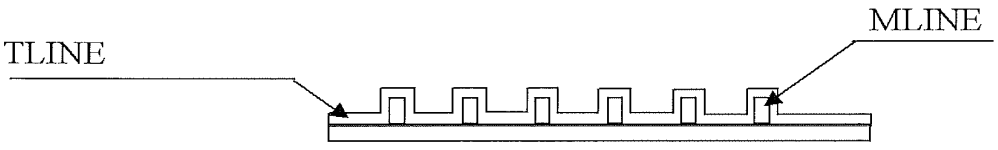
【図１６】



【図１７】

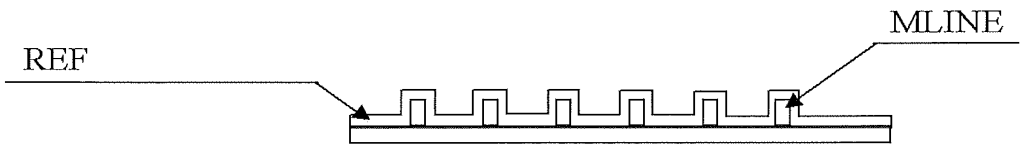


【図１８】

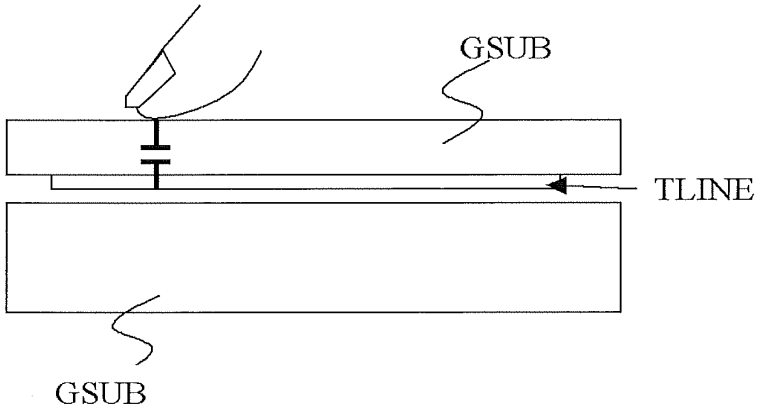


BOE Ex. 1002, p. 89
BOE v. Paneltouch
IPR2025-01245

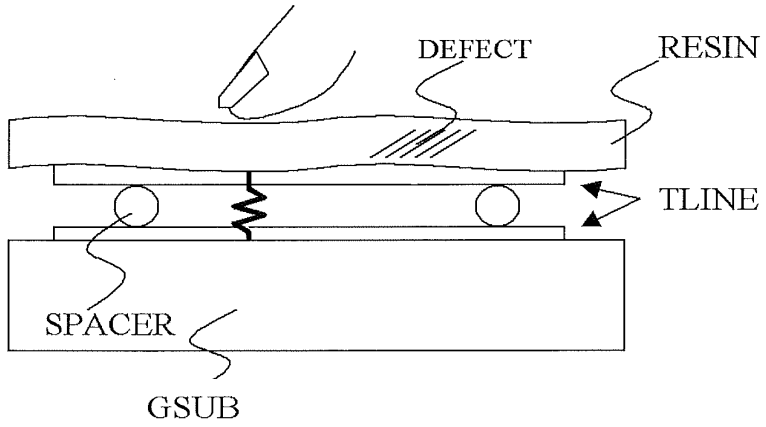
【図１９】



【図２０】



【図２１】



BOE Ex. 1002, p. 90
BOE v. Paneltouch
IPR2025-01245

【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
【承継人代理人】
　【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
【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

５０２３５６５２８

20021001

新規登録

千葉県茂原市早野３３００番地

株式会社　日立ディスプレイズ

５０２３５６５２８

20120410

名称変更

千葉県茂原市早野３３００番地

株式会社ジャパンディスプレイイースト

５０２３５６５２８

20130426

名称変更

東京都港区西新橋三丁目７番１号

株式会社ジャパンディスプレイ

５０６０８７８１９

20060315

新規登録

千葉県茂原市早野３７３２番地

BOE Ex. 1002, p. 92
BOE v. Paneltouch
IPR2025-01245

株式会社ＩＰＳアルファテクノロジ

５０６０８７８１９

20101004

名称変更

兵庫県姫路市飾磨区妻鹿日田町１－６

パナソニック液晶ディスプレイ株式会社

BOE Ex. 1002, p. 93
BOE v. Paneltouch
IPR2025-01245

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
14/451,769	08/05/2014	Takeshi Ookawara	1497.50463CC2

CONFIRMATION NO. 2038

PUBLICATION NOTICE

20457
ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 NORTH SEVENTEENTH STREET
SUITE 550
ARLINGTON, VA 22209-3873

OC000000071952861

Title: Display Device with Touch Panel

Publication No.US-2014-0340360-A1
Publication Date:11/20/2014

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 Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

BOE Ex. 1002, p. 94
BOE v. Paneltouch
IPR2025-01245

Post-AIA GPA

POWER OF ATTORNEY TO PROSECUTE APPLICTIONS 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: Hiroyuki Yoshida	Date: January 16, 2015
Name: Hiroyuki YOSHIDA	Telephone: +81-3-6732-8368
Title: Senior General Manager, Intellectual Property Dept., Japan Display Inc.	

BOE Ex. 1002, p. 95
BOE v. Paneltouch
IPR2025-01245

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

BOE Ex. 1002, p. 96
BOE v. Paneltouch
IPR2025-01245

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

BOE Ex. 1002, p. 97
BOE v. Paneltouch
IPR2025-01245

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Takeshi Ookawara et al.

Application No./Patent No.: 14/451,769 Filed/Issue Date: 2014-08-05

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:

   Panasonic Liquid Crystal Display Co., Ltd.

   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 _____, Frame _____, 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: OOKAWARA, TAKESHI et al. To: HITACHI DISPLAYS, LTD.

      The document was recorded in the United States Patent and Trademark Office at

      Reel 023716, Frame 0118, or for which a copy thereof is attached.

   2. From: Change of Name from HITACHI DISPLAYS, LTD. To: JAPAN DISPLAY EAST, INC.

      The document was recorded in the United States Patent and Trademark Office at

      Reel 032422, Frame 0454, or for which a copy thereof is attached.

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.

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: Change of Name from JAPAN DISPLAY EAST, INC. To: JAPAN DISPLAY INC.

The document was recorded in the United States Patent and Trademark Office at
Reel 032422, Frame 0549, 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/	2015-02-03
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.

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Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Takeshi Ookawara et al.

Application No./Patent No.: 14/451,769 Filed/Issue Date: 2014-08-05

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:

   JAPAN DISPLAY INC.

   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 _____, Frame _____, 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: OOKAWARA, TAKESHI et al. To: HITACHI DISPLAYS, LTD.

   The document was recorded in the United States Patent and Trademark Office at

   Reel 023716, Frame 0118, or for which a copy thereof is attached.

2. From: COMPANY SPLIT PLAN TRANSFERRING FIFTY (50) PERCENT SHARE IN PATENT APPLICATIONS HITACHI I To: IPS ALPHA SUPPORT CO., LTD.

   The document was recorded in the United States Patent and Trademark Office at

   Reel 027092, Frame 0684, or for which a copy thereof is attached.

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.

BOE Ex. 1002, p. 101
BOE v. Paneltouch
IPR2025-01245

PTO/AIA/96 (08-12)
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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.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: MERGER OF IPS ALPHA SUPPORT CO., LTD. To: PANASONIC LIQUID CRYSTAL DISPLAY CO., LTD.

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/	2015-02-03
Signature	Date
Arimi Yamada	70156
Printed or Typed Name	Title or Registration Number

BOE Ex. 1002, p. 102
BOE v. Paneltouch
IPR2025-01245

Privacy Act Statement

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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:	21389943
Application Number:	14451769
International Application Number:	
Confirmation Number:	2038
Title of Invention:	Display Device with Touch Panel
First Named Inventor/Applicant Name:	Takeshi Ookawara
Customer Number:	20457
Filer:	Arimi Yamada/Minsoo Kang
Filer Authorized By:	Arimi Yamada
Attorney Docket Number:	1497.50463CC2
Receipt Date:	03-FEB-2015
Filing Date:	05-AUG-2014
Time Stamp:	18:19:34
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	JAPAN_DISPLAY_INC_GPA.PDF	29113 eab5954bbf61a27bf8bfde4e0bdfaf90eca2814e	no	1

Warnings:	
Information:	

2	Power of Attorney	PLD_POA.PDF	501710 344155dce67384a8aac2d478dfa78711e724be17	no	2
Warnings:					
Information:					
3	Assignee showing of ownership per 37 CFR 3.73.	F-373c_JDI_CU.pdf	90811 4d5e94fed528b92295e97d78ae71e677f2c39596	no	3
Warnings:					
Information:					
4	Assignee showing of ownership per 37 CFR 3.73.	F-373c_PANASONIC_CU.pdf	92140 53827b17620ff70049b0691245199a5a15cb24f5	no	3
Warnings:					
Information:					
		Total Files Size (in bytes):	713774		

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.

<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.

<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.

<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.

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
14/451,769	08/05/2014	Takeshi Ookawara	1497.50463CC2

CONFIRMATION NO. 2038

POWER OF ATTORNEY NOTICE

20457
ANTONELLI, TERRY, STOUT & KRAUS, LLP
1300 NORTH SEVENTEENTH STREET
SUITE 550
ARLINGTON, VA 22209-3873

OC000000073360351

Date Mailed: 02/12/2015

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/03/2015.

- 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).

/ytbedada/

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

BOE Ex. 1002, p. 106
BOE v. Paneltouch
IPR2025-01245

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
14/451,769	08/05/2014	Takeshi Ookawara	1497.50463CC2

CONFIRMATION NO. 2038

POA ACCEPTANCE LETTER

127271
Lowe Hauptman & Ham, LLP
2318 Mill Road
Suite 1400
Alexandria, VA 22314

OC000000073360406

Date Mailed: 02/12/2015

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/03/2015.

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.

/ytbedada/

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

BOE Ex. 1002, p. 107
BOE v. Paneltouch
IPR2025-01245

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 NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/451,769	08/05/2014	Takeshi Ookawara	1497.50463CC2	2038

127271 7590 05/06/2015

Lowe Hauptman & Ham, LLP
2318 Mill Road
Suite 1400
Alexandria, VA 22314

EXAMINER	
DHARIA, PRABODH M	

ART UNIT	PAPER NUMBER
2693	

MAIL DATE	DELIVERY MODE
05/06/2015	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.

BOE Ex. 1002, p. 108
BOE v. Paneltouch
IPR2025-01245

Office Action Summary	Application No. 14/451,769	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 *08-05-2014*.

☐ 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) *1-9* 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) *1-9* 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 *08-05-2014* 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 *08-05-2014*.

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

4) ☐ Other: _____.

BOE Ex. 1002, p. 109
BOE v. Paneltouch
IPR2025-01245

Detail Office Action

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 No. 13,966,857.

Information Disclosure Statement

4. The information disclosure statement (IDS) submitted on 08-05-2014 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

5. St**atus:** Please all the replies and correspondence should be addressed to Examiner's new art unit 2629. Receipt is acknowledged of papers submitted on 08-05-2014 under new application, which have been placed of record in the file. Claims 1-9 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.

Double Patenting

7. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the claims at issue are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d

1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the reference application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO internet Web site contains terminal disclaimer forms which may be used. Please visit http://www.uspto.gov/forms/. The filing date of the application will determine what form should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to http://www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

8. Claims 1-9 rejected on the ground of nonstatutory double patenting over claims 1-15 of U.S. Patent No. US 8,803,836 B2 since the claims, if allowed, would improperly extend the “right to exclude” already granted in the patent. The subject matter claimed in the instant application is fully disclosed in the patent and is covered by the patent

since the patent and the application are claiming common subject matter, as follows: Although the conflicting claims are not identical, they are not patentably distinct from each other because the subject matter claimed in the instant application is fully disclosed in the patent and is covered by the patent since the patent and the application are claiming common subject matter, as follows: Comparison of Instant application Claims 1-9 to Claims 1-15 of U.S. Patent No. 8,8038,36 B2 of patented applications;

Furthermore, there is no apparent reason why applicant was prevented from presenting claims corresponding to those of the instant application during prosecution of the application which matured into a patent. See *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

Instant Application Number **14,451,769** **US-PGPUB 20120044133 A1**	**Parent Application Number** **13,966,857** **US Patent Number** **US 8,8038,36 B2**
1. 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 at least one external terminal is formed, a plurality of first lines to detect the coordinate in the detection area, a	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

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 emitting display panel under the touch panel; and a circular polarizing plate arranged at a side of the touch panel opposite to the organic emitting display panel; wherein the organic emitting display panel, the touch panel, and the circular polarizing plate are arranged in this order.	detect a coordinate and an outside area in which 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, 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. 8. 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.

Note the comparison of independent claim 1 of instant application, to Claim 1 and 8 of patented application, to avoid 101 statutory double patenting rejections the claims limitation by curtailing the details and language has been changed. However, instant application independent claim limitations are described in independent claims of the parent applications. They both are claiming “A display device with a touch panel includes the touch panel having a first substrate having a detection area to detect a coordinate and an outside area in which at least one external terminal is 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, wherein each of the plurality of first lines traverse each of the plurality of second lines. An organic emitting display panel is arranged under the touch panel, and a circular polarizing plate arranged at a side of the touch panel opposite to the organic emitting display panel. The organic emitting display panel, the touch panel, and the circular polarizing plate are arranged in this order". Please further notice the patented application does disclose, with description of the arrangements of circular polarizing plate with display panel and touch panel and therefore the subject matter is described in both the claim 1 of instant application as well as claims 1 and 8, patented application with the curtailing of the details of claims limitations and changed language.

Further other Claims 2-8 of instant application claims same or similar limitation as parent applications claims 2-7 and 9-15 per claim.

Conclusion

9. 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.

10. 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.

11. 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.

12. 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). 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

05-04-2015

Notice of References Cited	Application/Control No. 14/451,769	Applicant(s)/Patent Under Reexamination OOKAWARA ET AL.	
	Examiner PRABODH M. DHARIA	Art Unit 2693	Page 1 of 1

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
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*	B	US-2009/0079464	03-2009	YOSHII, Masahito	324/770
*	C	US-2002/0175888	11-2002	Murade, Masao	345/92
*	D	US-7,850,338	12-2010	Messina et al.	362/235
*	E	US-2002/0036610	03-2002	Ito et al.	345/89
*	F	US-2007/0176868	08-2007	LEE et al.	345/87
*	G	US-2010/0060593	03-2010	Krah, Christoph H.	345/173
*	H	US-2008/0079856	04-2008	FUKUI et al.	349/5
*	I	US-2007/0120471	05-2007	Yamazaki et al.	313/506
*	J	US-2008/0266273	10-2008	Slobodin et al.	345/174
*	K	US-2010/0097344	04-2010	VERWEG, FRANS	345/174
*	L	US-2010/0214266	08-2010	Koshihara et al.	345/174
	M	US-			

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*		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.

BOE Ex. 1002, p. 118
BOE v. Paneltouch
IPR2025-01245

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	14451769
Filing Date	August 5, 2014
First Named Inventor	Takeshi OOKAWARA
Art Unit	2693
Examiner Name	P Dharia
Attorney Docket Number	501.50463CC2

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Examiner Initials'	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Examiner Initials'	Cite No.[1]	Foreign Patent Document Country Code[3]–Number[4]–Kind Code[5] (if known)	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]
/P.D./		JP 2002-342014	11/29/2002	NEC Microsystems Ltd		abs

Examiner Signature	/Prabodh Dharia/	Date Considered	05/03/2015

*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.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14451769	OOKAWARA ET AL.
	Examiner	Art Unit
	PRABODH M DHARIA	2693

CPC- SEARCHED		
Symbol	Date	Examiner
G06F3/ 044,045,047,0412	05-01-2015	PD
	05-02-2015	PD
	05-03-2015	PD
	05-04-2015	PD

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
345	173-179	05-01-2015	PD
349	12,58,153-156	05-02-2015	PD
438	54,455	05-03-2015	PD
178	18.01-18.06	05-04-2015	PD

SEARCH NOTES		
Search Notes	Date	Examiner
East text search per (US-PGPUB;USPAT;USOCR;DERWENT;IBM_TDB;EPO;JPO;FPRS)	05-01-2015	PD
CPC text search per (US-PGPUB;USPAT;USOCR;DERWENT;EPO;JPO;IBM_TDB;FPRS)	05-02-2015	PD
	05-03-2015	PD
	05-04-2015	PD

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
345 / G06F3	173-179 / 044,045,047,0412	05-01-2015	PD

BOE Ex. 1002, p. 120
BOE v. Paneltouch
IPR2025-01245

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
rest as listed above as searched		05-02-2015	PD
Interference search per (US-PGPUB)		05-03-2015	PD
		05-04-2015	PD

BOE Ex. 1002, p. 121
BOE v. Paneltouch
IPR2025-01245

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BIB DATA SHEET

CONFIRMATION NO. 2038

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
14/451,769	08/05/2014 RULE	345	2693	1497.50463CC2

APPLICANTS

Japan Display Inc., Tokyo, JAPAN, Assignee (with 37 CFR 1.172 Interest);
Panasonic Liquid Crystal Display Co., Ltd., Hyogo-ken, 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 13/966,857 08/14/2013 PAT 8803836
which 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 ****

08/13/2014

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	9	1
Verified and Acknowledged	/PRABODH M DHARIA/ Examiner's Signature	Initials				

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2318 Mill Road
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UNITED STATES

TITLE

Display Device with Touch Panel

FILING FEE RECEIVED		
1600	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

BOE Ex. 1002, p. 122
BOE v. Paneltouch
IPR2025-01245

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:05
L2	2	touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:05
L4	6	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same panel$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:07
L5	6	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same (touch$3 same (panel$3 or send$3)) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:08
L6	7	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same ((light$4 same emit$4) or emit$4) same display$3)) and (first and second) same (touch$3 same (panel$3 or send$3)) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:09

BOE Ex. 1002, p. 123
BOE v. Paneltouch
IPR2025-01245

L7	1	touch$3 same panel$1 same display$3 and (first and second) same (touch$3 same (panel$3 or send$3)) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same ((light$4 same emit$4) or emit$4) same display$3)) same circul$3 same polariz$3 same (plate$1 or film$1) same touch$3 same panel$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:12
S1	163161	touch$3 same panel$1 same display$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:06
S2	5	"14451769"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:07
S3	3	"13966857"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:11
S4	16378	touch$3 same panel$1 same display$3 and (first and second) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:23
S5	2239	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:25
S6	145	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:25
S7	57	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:26

BOE Ex. 1002, p. 124
BOE v. Paneltouch
IPR2025-01245

S8	0	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and seond) same (line$1 or electrode$1) same detect$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:27
S9	0	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and seond) same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:28
S10	6	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same detect$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:29
S11	0	"345"?4.ccls. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:30
S12	22	"345"/$.ccls. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:30
S13	57	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:32
S14	54	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:33
S15	14	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) and detect$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:33
S16	3	touch$3 same panel$1 same display$3 and (first and second) same	US-PGPUB; USPAT;	OR	OFF	2015/05/02 17:45

BOE Ex. 1002, p. 125
BOE v. Paneltouch
IPR2025-01245

		substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same intersect$3 same orthogonal$3 and (detect$3 or determin$3) same coordinate$1	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S17	3	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same intersect$3 same orthogonal$3 and coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:50
S18	7	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:51
S19	11	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same (external or another or second) same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:53
S20	22	"345"/$.ccls. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:55
S21	23	("345"/$.ccls. or G06F3/$.cpc. or "178"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 18:13
S22	5	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 09:30
S23	2	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/05/03 09:30

BOE Ex. 1002, p. 126
BOE v. Paneltouch
IPR2025-01245

		electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	IBM_TDB			
S24	42	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 09:43
S25	21	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 09:44
S26	21	touch$3 near3 panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 10:05
S27	13	touch$3 near3 panel$1 same display$3 and (first and second) near3 substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 10:06
S28	1	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 10:07
S29	4	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1) same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 10:09
S30	11	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) near3 area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 11:16
S31	10	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) near3 area$1 same external near3 terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 11:16
S32	350	touch$3 same panel$1 same	US-PGPUB;	OR	OFF	2015/05/03

BOE Ex. 1002, p. 127
BOE v. Paneltouch
IPR2025-01245

		display$3 and (first and second) same substrate$1 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			12:18
S33	401	touch$3 same panel$1 same display$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:18
S34	8	touch$3 same panel$1 same display$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:19
S35	35	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:21
S36	4	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:21
S37	4	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:22
S38	70	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:23

BOE Ex. 1002, p. 128
BOE v. Paneltouch
IPR2025-01245

S39	0	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 and external same terminal$1 same form$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:34
S40	0	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or external$1 or peripheral$1) same area$1 and external same terminal$1 same form$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:36
S41	0	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or external$1 or peripheral$1) same area$1 and (outside$1 or external$1 or peripheral$1) same terminal$1 same form$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:44
S42	0	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or external$1 or peripheral$1) same area$1 and (outside$1 or external$1 or peripheral$1) same terminal$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:45
S43	0	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same terminal$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:49
S44	0	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:50

BOE Ex. 1002, p. 129
BOE v. Paneltouch
IPR2025-01245

		(outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or interconnect$4)				
S45	44	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or interconnect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:50
S46	44	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:51
S47	40	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4) and (first and second) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:51
S48	34	("345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4) and (first and second) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:53
S49	82	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4) and (first and second) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 13:05

BOE Ex. 1002, p. 130
BOE v. Paneltouch
IPR2025-01245

S50	57	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4) and (first and second) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 13:14
S51	57	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 13:14
S52	45	("345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 13:16
S53	29	("345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) same substrate$1 and touch$3 same sens$3 same area$1 same (outside$1 or eternal$1 or peripheral$1) same display$3 same panel$1 same (terminal$1 or inter-connect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 13:22
S54	29	("345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) same substrate$1 and touch$3 same sens$3 same area$1 same (terminal$1 or inter-connect$4 or connect$4) same (outside$1 or eternal$1 or peripheral$1) same display$3 same panel$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 13:23
S55	586	touch$3 same panel$1 same display$3 and circular same polariz$3	US-PGPUB; USPAT;	OR	OFF	2015/05/03 13:53

BOE Ex. 1002, p. 131
BOE v. Paneltouch
IPR2025-01245

		same (plate$1 or film$1)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S56	341	touch$3 same panel$1 same display$3 and circular same polariz$3 adj (plate$1 or film$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 13:53
S57	185	touch$3 same panel$1 same display$3 and circular adj polariz$3 adj (plate$1 or film$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 13:53
S58	183	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:23
S59	0	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:24
S60	25	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:25
S61	0	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:25
S62	7	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:25
S63	1	"14451769" and touch$3 same	US-PGPUB;	OR	OFF	2015/05/03

BOE Ex. 1002, p. 132
BOE v. Paneltouch
IPR2025-01245

		panel$1 same display$3	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			14:27
S64	1	"14451769" and touch$3 same panel$1 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	2015/05/03 14:27
S65	0	"14451769" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:28
S66	1	"14451769" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:28
S67	0	"14451769" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:29
S68	0	"14451769" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:29
S69	0	"14451769" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (cordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:31
S70	1	"14451769" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:31

BOE Ex. 1002, p. 133
BOE v. Paneltouch
IPR2025-01245

S71	1	"14451769" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:31
S72	9	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:32
S73	38	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch panel same circul$3 same polariz$3 same plate$1 same arrang$3 same order	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:36
S74	1	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:37
S75	1	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:38

BOE Ex. 1002, p. 134
BOE v. Paneltouch
IPR2025-01245

		same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S76	5	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 and circul$3 same polariz$6 same (film$1 or plate$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:40
S79	7	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:56
S80	6	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same panel$1 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:57
S81	8	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:58
S85	7	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 19:57
S86	0	("2014/0340360").URPN.	USPAT	OR	OFF	2015/05/03 20:03
S87	0	(14/451769).APP.	USPAT; USOCR	OR	OFF	2015/05/03 20:03
S88	0	("2013/0328815").URPN.	USPAT	OR	OFF	2015/05/03 20:03
S89	1	(13/966857).APP.	USPAT; USOCR	OR	OFF	2015/05/03 20:03
S90	0	("2013/0258614").URPN.	USPAT	OR	OFF	2015/05/03 20:04
S91	0	(13/991487).APP.	USPAT;	OR	OFF	2015/05/03

BOE Ex. 1002, p. 135
BOE v. Paneltouch
IPR2025-01245

			USOCR			20:04
S92	1	("2013/0249863").URPN.	USPAT	OR	OFF	2015/05/03 20:04
S93	0	(13/991682).APP.	USPAT; USOCR	OR	OFF	2015/05/03 20:04
S94	0	("2013/0057793").URPN.	USPAT	OR	OFF	2015/05/03 20:04
S95	0	(13/697721).APP.	USPAT; USOCR	OR	OFF	2015/05/03 20:04
S96	5	("2010/0177055").URPN.	USPAT	OR	OFF	2015/05/03 20:04
S97	1	(12/649414).APP.	USPAT; USOCR	OR	OFF	2015/05/03 20:05
S98	1	("2008/0079856").URPN.	USPAT	OR	OFF	2015/05/03 20:05
S99	0	(11/854266).APP.	USPAT; USOCR	OR	OFF	2015/05/03 20:05
S100	10	("2007/0120471").URPN.	USPAT	OR	OFF	2015/05/03 20:05
S101	1	(10/576495).APP.	USPAT; USOCR	OR	OFF	2015/05/03 20:05
S102	8	("2002/0175888").URPN.	USPAT	OR	OFF	2015/05/03 20:05
S103	1	(10/179391).APP.	USPAT; USOCR	OR	OFF	2015/05/03 20:05
S104	29	("20010043291" | "20020047969" | "20030090803" | "20050046622" | "20050139398" | "20050190338" | "20060274047" | "20060274049" | "20080030483" | "20090046077" | "20090086318" | "20090096763" | "20090128518" | "20090143141" | "20090167721" | "20100033443" | "20100085322" | "20100085326" | "20110069036" | "6078274" | "6552718" | "6814452" | "7535462" | "7593004" | "7868957" | "7906216" | "8072436" | "8125466" | "8228453").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 20:06
S105	0	("8803836").URPN.	USPAT	OR	OFF	2015/05/03 20:06
S106	1	(13/966857).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 20:06
S107	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	2015/05/03 20:06
S108	0	("8519969").URPN.	USPAT	OR	OFF	2015/05/03 20:06
S109	1	(12/649414).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 20:06

BOE Ex. 1002, p. 136
BOE v. Paneltouch
IPR2025-01245

S110	35	("20010044259" | "20020006558" | "20020056838" | "20020104995" | "20030059717" | "20030127974" | "20030165714" | "20030168966" | "20030210361" | "20040005739" | "20040065345" | "20040160167" | "20040216324" | "20050026423" | "20050037614" | "20050088106" | "20070069210" | "20070146568" | "20100019242" | "20100090223" | "5084905" | "5747930" | "6072450" | "6346730" | "6614053" | "6639265" | "6709902" | "6767772" | "6994414" | "7119365" | "7136127" | "7176068" | "7198816" | "7619250" | "7638846").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 20:06
S111	6	("7859187").URPN.	USPAT	OR	OFF	2015/05/03 20:06
S112	1	(10/576495).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 20:07
S113	9	("5631753" | "5641974" | "5801673" | "5808595" | "5877830" | "5907313" | "6055034" | "6137552" | "6175395").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 20:07
S114	14	("6703997").URPN.	USPAT	OR	OFF	2015/05/03 20:07
S115	1	(10/179391).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 20:07
S116	0	(12/649414).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT; USOCR	OR	OFF	2015/05/03 20:10
S117	0	("2007/0120471").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT	OR	OFF	2015/05/03 20:10
S118	0	("2013/0249863").URPN. and touch$3	USPAT	OR	OFF	2015/05/03

BOE Ex. 1002, p. 137
BOE v. Paneltouch
IPR2025-01245

		same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				20:10
S119	0	(13/966857).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT; USOCR	OR	OFF	2015/05/03 20:10
S120	0	("2010/0177055").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT	OR	OFF	2015/05/03 20:10
S121	0	("2008/0079856").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT	OR	OFF	2015/05/03 20:10

BOE Ex. 1002, p. 138
BOE v. Paneltouch
IPR2025-01245

S122	0	("2002/0175888").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT	OR	OFF	2015/05/03 20:10
S123	0	(10/576495).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT; USOCR	OR	OFF	2015/05/03 20:10
S124	0	(10/179391).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT; USOCR	OR	OFF	2015/05/03 20:10
S125	0	("20010043291" | "20020047969" | "20030090803" | "20050046622" | "20050139398" | "20050190338" | "20060274047" | "20060274049" | "20080030483" | "20090046077" | "20090086318" | "20090096763" | "20090128518" | "20090143141" | "20090167721" | "20100033443" | "20100085322" | "20100085326" | "20110069036" | "6078274" | "6552718" | "6814452" | "7535462" | "7593004" | "7868957" | "7906216" | "8072436" | "8125466" | "8228453").PN. and touch$3 same panel$1 same display$3 and circular	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 20:10

BOE Ex. 1002, p. 139
BOE v. Paneltouch
IPR2025-01245

		same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S126	0	(13/966857).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USOCR	OR	OFF	2015/05/03 20:10
S127	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 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 20:10
S128	0	(12/649414).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same	US-PGPUB; USOCR	OR	OFF	2015/05/03 20:10

BOE Ex. 1002, p. 140
BOE v. Paneltouch
IPR2025-01245

		(line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S129	0	("20010044259" | "20020006558" | "20020056838" | "20020104995" | "20030059717" | "20030127974" | "20030165714" | "20030168966" | "20030210361" | "20040005739" | "20040065345" | "20040160167" | "20040216324" | "20050026423" | "20050037614" | "20050088106" | "20070069210" | "20070146568" | "20100019242" | "20100090223" | "5084905" | "5747930" | "6072450" | "6346730" | "6614053" | "6639265" | "6709902" | "6767772" | "6994414" | "7119365" | "7136127" | "7176068" | "7198816" | "7619250" | "7638846").PN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 20:10
S130	0	("7859187").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT	OR	OFF	2015/05/03 20:10
S131	0	(10/576495).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same	US-PGPUB; USOCR	OR	OFF	2015/05/03 20:10

BOE Ex. 1002, p. 141
BOE v. Paneltouch
IPR2025-01245

		(line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S132	0	("5631753" | "5641974" | "5801673" | "5808595" | "5877830" | "5907313" | "6055034" | "6137552" | "6175395").PN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 20:10
S133	0	("6703997").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT	OR	OFF	2015/05/03 20:10
S134	0	(10/179391).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USOCR	OR	OFF	2015/05/03 20:10
S135	145	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2015/05/03 20:16

BOE Ex. 1002, p. 142
BOE v. Paneltouch
IPR2025-01245

		same terminal$1	EPO; JPO; DERWENT; IBM_TDB			
S136	57	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:16
S137	6	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same detect$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:16
S138	54	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:16
S139	57	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:16
S140	14	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) and detect$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:16
S141	3	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same intersect$3 same orthogonal$3 and (detect$3 or determin$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:17
S142	3	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same intersect$3 same orthogonal$3 and coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:17
S143	7	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2015/05/03 20:17

BOE Ex. 1002, p. 143
BOE v. Paneltouch
IPR2025-01245

		same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular)	EPO; JPO; DERWENT; IBM_TDB			
S144	11	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same (external or another or second) same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:17
S145	5	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:17
S146	2	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:17
S147	42	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:17
S148	21	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:17
S149	21	touch$3 near3 panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:18
S150	1	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:18
S151	1	touch$3 same panel$1 same display$3 and (first and second) same	US-PGPUB; USPAT;	OR	ON	2015/05/03 20:18

BOE Ex. 1002, p. 144
BOE v. Paneltouch
IPR2025-01245

		substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S152	4	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1) same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:18
S153	11	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) near3 area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:18
S154	10	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) near3 area$1 same external near3 terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:20
S155	10	S154 AND ((G06F3/045 OR G06F3/047 OR G09G3/3648 OR G09G2320/0223 OR G09G2310/027 OR G09G2320/041 OR G09G2330/021 OR G09G2340/0428 OR G09G3/20 OR G09G3/2014 OR G09G3/2022 OR G09G3/3688).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:21
S156	10	S153 AND ((G06F3/045 OR G06F3/047 OR G09G3/3648 OR G09G2320/0223 OR G09G2310/027 OR G09G2320/041 OR G09G2330/021 OR G09G2340/0428 OR G09G3/20 OR G09G3/2014 OR G09G3/2022 OR G09G3/3688).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:24
S157	4	S152 AND ((G06F2203/04107 OR G06F3/0418 OR G06F3/044 OR G06F3/041 OR H04N5/2354).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:24
S158	1	S151 AND ((H04N5/2354).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:25
S159	1	S150 AND ((H04N5/2354).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2015/05/03 20:25

BOE Ex. 1002, p. 145
BOE v. Paneltouch
IPR2025-01245

			IBM_TDB			
S160	18	S149 AND ((G09G3/3648 OR G09G2320/0223 OR G09G2300/0426 OR G09G2310/027 OR G09G2310/0297 OR G09G2320/041 OR G09G2330/021 OR G09G2340/0428 OR G09G3/006 OR G09G3/20 OR G09G3/2014 OR G09G3/2022 OR G09G3/3688 OR G02F1/13454 OR G02F1/136209 OR G02F1/1333 OR G02F1/136204 OR G02F2001/133388 OR G02F1/134309 OR G02F1/136213 OR G02F1/1395 OR G02F2001/13629 OR 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	2015/05/03 20:25
S161	18	S148 AND ((G09G3/3648 OR G09G2320/0223 OR G09G2300/0426 OR G09G2310/027 OR G09G2310/0297 OR G09G2320/041 OR G09G2330/021 OR G09G2340/0428 OR G09G3/006 OR G09G3/20 OR G09G3/2014 OR G09G3/2022 OR G09G3/3688 OR G02F1/13454 OR G02F1/136209 OR G02F1/1333 OR G02F1/136204 OR G02F2001/133388 OR G02F1/134309 OR G02F1/136213 OR G02F1/1395 OR G02F2001/13629 OR 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	2015/05/03 20:25
S162	39	S147 AND ((G09G3/3648 OR G09G3/006 OR G09G3/3688 OR G09G2300/0426 OR G09G2300/0408 OR G09G2310/0297 OR G09G2320/0223 OR G09G2310/027 OR G09G2310/0289 OR G09G2320/041 OR G09G2330/021 OR G09G2330/06 OR G09G2330/12 OR G09G2340/0428 OR G09G3/20 OR G09G3/2014 OR G09G3/2022 OR G09G3/3677 OR G09G3/3611 OR G09G5/18 OR G02F1/136209 OR G02F1/133526 OR G02F1/1345 OR G02F1/13454 OR G02F1/1309 OR G02F1/1333 OR G02F1/133371 OR G02F1/133555 OR G02F1/13452 OR G02F1/136213 OR G02F1/1303 OR G02F1/13318 OR G02F1/133351 OR G02F1/1362 OR G02F1/136204 OR G02F1/136227 OR G02F2001/133388 OR G02F2001/136254 OR G02F2203/69 OR G02F1/133707 OR G02F1/133784 OR G02F1/134309 OR G02F1/134363 OR G02F1/1395 OR G02F2001/134381 OR G02F2001/13629 OR G02F2001/13712 OR G02F2202/28 OR G06F3/045 OR G06F3/047 OR G06F3/0412 OR G06F2203/04103 OR G06F2203/04111 OR G06F3/042 OR G06F3/044 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:25

BOE Ex. 1002, p. 146
BOE v. Paneltouch
IPR2025-01245

		G06F1/1643 OR G06F2203/04107 OR G06F3/0416).CPC.)				
S163	2	S146 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:25
S164	2	S145 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:26
S165	2	S144 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:26
S166	2	S143 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:26
S167	3	S142 AND ((B29C33/302 OR B29C33/3842 OR B29C33/42 OR B29C39/34 OR B29K2083/00 OR G21K1/02 OR G21K1/025).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:26
S168	3	S141 AND ((B29C33/302 OR B29C33/3842 OR B29C33/42 OR B29C39/34 OR B29K2083/00 OR G21K1/02 OR G21K1/025).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:26
S169	11	S140 AND ((G06F3/041 OR G06F3/045 OR G06F3/047 OR G06F3/0412).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:27
S170	36	S139 AND ((G09G2310/027 OR G09G2330/04 OR G09G3/3648 OR G09G2310/0267 OR G09G2330/027 OR G09G3/2014 OR G09G2310/0229 OR G09G2310/0297 OR G09G2320/0276 OR G09G2320/0626 OR G09G2330/02 OR G09G2340/125 OR G09G3/2011 OR G09G3/22 OR G09G3/3688 OR G09G5/02 OR G09G2300/0426 OR G09G3/20 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:27

BOE Ex. 1002, p. 147
BOE v. Paneltouch
IPR2025-01245

		G09G2310/0281 OR G09G2320/0223 OR G09G3/3614 OR G09G2300/08 OR G09G2310/063 OR G09G2320/041 OR G09G2330/021 OR G09G2340/0428 OR G09G3/006 OR G09G3/2022 OR G09G3/3677 OR G06F3/041 OR G06F3/045 OR G06F3/047 OR G06F13/1689 OR G06F13/1694 OR G06F2203/04103 OR G06F2203/04111 OR G06F3/044 OR G06F3/0412).CPC.)				
S171	36	S138 AND ((G09G2310/027 OR G09G2330/04 OR G09G3/3648 OR G09G2310/0267 OR G09G2330/027 OR G09G3/2014 OR G09G2310/0229 OR G09G2310/0297 OR G09G2320/0276 OR G09G2320/0626 OR G09G2330/02 OR G09G2340/125 OR G09G3/2011 OR G09G3/22 OR G09G3/3688 OR G09G5/02 OR G09G2300/0426 OR G09G3/20 OR G09G2310/0281 OR G09G2320/0223 OR G09G3/3614 OR G09G2300/08 OR G09G2310/063 OR G09G2320/041 OR G09G2330/021 OR G09G2340/0428 OR G09G3/006 OR G09G3/2022 OR G09G3/3677 OR G06F3/041 OR G06F3/045 OR G06F3/047 OR G06F13/1689 OR G06F13/1694 OR G06F2203/04103 OR G06F2203/04111 OR G06F3/044 OR G06F3/0412).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:27
S172	6	S137 AND ((G06F3/041 OR G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:27
S173	36	S136 AND ((G09G2310/027 OR G09G2330/04 OR G09G3/3648 OR G09G2310/0267 OR G09G2330/027 OR G09G3/2014 OR G09G2310/0229 OR G09G2310/0297 OR G09G2320/0276 OR G09G2320/0626 OR G09G2330/02 OR G09G2340/125 OR G09G3/2011 OR G09G3/22 OR G09G3/3688 OR G09G5/02 OR G09G2300/0426 OR G09G3/20 OR G09G2310/0281 OR G09G2320/0223 OR G09G3/3614 OR G09G2300/08 OR G09G2310/063 OR G09G2320/041 OR G09G2330/021 OR G09G2340/0428 OR G09G3/006 OR G09G3/2022 OR G09G3/3677 OR G06F3/041 OR G06F3/045 OR G06F3/047 OR G06F13/1689 OR G06F13/1694 OR G06F2203/04103 OR G06F2203/04111 OR G06F3/044 OR G06F3/0412).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:27
S174	68	S135 AND ((G09G3/3648 OR G09G3/3688 OR G09G2310/0297 OR G09G2300/0426 OR G09G2310/027	US-PGPUB; USPAT; USOCR;	OR	ON	2015/05/03 20:28

BOE Ex. 1002, p. 148
BOE v. Paneltouch
IPR2025-01245

		OR G09G3/3614 OR G09G2310/0281 OR G09G2330/04 OR G09G2310/0267 OR G09G2330/027 OR G09G3/006 OR G09G3/3611 OR G09G3/3677 OR G09G2320/0233 OR G09G3/2014 OR G09G2300/0408 OR G09G2310/0205 OR G09G2310/0218 OR G09G2310/0229 OR G09G2310/0251 OR G09G2320/0209 OR G09G2320/0257 OR G09G2320/0276 OR G09G2320/0626 OR G09G2330/02 OR G09G2340/125 OR G09G3/001 OR G09G3/20 OR G09G3/2011 OR G09G3/22 OR G09G3/34 OR G09G5/02 OR G09G2300/08 OR G09G2310/0289 OR G09G2310/063 OR G09G2320/0261 OR G09G2320/103 OR G09G2330/021 OR G09G2340/0435 OR G09G2360/16 OR G09G2320/0219 OR G09G2320/0223 OR G09G2320/0238 OR G09G2320/0252 OR G09G2320/041 OR G09G2330/06 OR G09G2330/08 OR G09G2330/12 OR G09G2340/0428 OR G09G2340/16 OR G09G3/2022 OR G09G3/3655 OR G09G5/006 OR G09G5/18 OR G06F3/045 OR G06F3/047 OR G06F3/041 OR G06F3/0412 OR G06F2203/04103 OR G06F2203/04111 OR G06F3/042 OR G06F3/044 OR G06F13/1689 OR G06F13/1694 OR G06F1/1643 OR G06F1/182 OR G06F2203/04107 OR G06F3/0416).CPC.)	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S175	350	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:28
S176	401	touch$3 same panel$1 same display$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:28
S177	8	touch$3 same panel$1 same display$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:28
S178	35	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or	US-PGPUB; USPAT; USOCR;	OR	ON	2015/05/03 20:29

BOE Ex. 1002, p. 149
BOE v. Paneltouch
IPR2025-01245

		electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S179	4	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:29
S180	70	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:29
S181	44	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or interconnect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:29
S182	44	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:29
S183	40	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4) and (first and second) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:30
S184	341	touch$3 same panel$1 same display$3 and circular same polariz$3 adj (plate$1 or film$1)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2015/05/03 20:30

BOE Ex. 1002, p. 150
BOE v. Paneltouch
IPR2025-01245

			EPO; JPO; DERWENT; IBM_TDB			
S185	586	touch$3 same panel$1 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	ON	2015/05/03 20:30
S186	185	touch$3 same panel$1 same display$3 and circular adj polariz$3 adj (plate$1 or film$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:30
S187	183	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:30
S188	25	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:30
S189	7	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:31
S190	9	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:31
S191	38	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:31

BOE Ex. 1002, p. 151
BOE v. Paneltouch
IPR2025-01245

		same emit$4 same display$3)) same touch panel same circul$3 same polariz$3 same plate$1 same arrang$3 same order				
S192	1	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:31
S193	1	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:31
S194	5	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 and circul$3 same polariz$6 same (film$1 or plate$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:32
S195	25	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:32
S196	7	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:32
S197	6	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/05/03 20:32

BOE Ex. 1002, p. 152
BOE v. Paneltouch
IPR2025-01245

		second) same touch$3 same panel$1 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	DERWENT; IBM_TDB			
S198	8	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:33
S199	7	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:33
S200	1208717	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:37
S201	1208717	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:37
S202	4	S199 AND ((G06F3/044 OR G06F2203/04102 OR G06F2203/04103 OR G06F2203/04111 OR G06F1/1637 OR G06F1/1652 OR G06F1/1656 OR G06F1/1658).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:37
S203	5	S198 AND ((G06F3/044 OR G06F2203/04102 OR G06F2203/04103 OR G06F2203/04111 OR G06F1/1637 OR G06F1/1652 OR G06F1/1656 OR G06F1/1658 OR G06F3/0414).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:37
S204	1	S193 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:37
S205	1	S192 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT;	OR	OFF	2015/05/03 20:38

BOE Ex. 1002, p. 153
BOE v. Paneltouch
IPR2025-01245

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S206	14	S191 AND ((G06F3/045 OR G06F3/044 OR G06F2203/04103 OR G06F2203/04102 OR G06F2203/04111 OR G06F1/1616 OR G06F1/1626 OR G06F1/1639 OR G06F3/011 OR G06F3/041 OR G06F3/0412 OR G06F3/0414 OR G06F3/047 OR G09G2300/0426 OR G09G2300/0842 OR G09G2300/0861 OR G09G2320/02 OR G09G2320/0209 OR G09G2320/064 OR G09G2370/08 OR G09G3/3233 OR G09G3/3659 OR G09G3/3677).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:38
S207	6	S190 AND ((G06F3/044 OR G06F2203/04102 OR G06F2203/04103 OR G06F2203/04111 OR G06F1/1637 OR G06F1/1652 OR G06F1/1656 OR G06F1/1658 OR G06F3/0414 OR G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:38
S208	4	S189 AND ((G06F3/044 OR G06F2203/04102 OR G06F2203/04103 OR G06F2203/04111 OR G06F1/1637 OR G06F1/1652 OR G06F1/1656 OR G06F1/1658).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:38
S209	20	S188 AND ((G06F3/044 OR G06F2203/04103 OR G06F2203/04102 OR G06F3/0412 OR G06F1/1652 OR G06F2203/04111 OR G06F3/041 OR G06F1/1637 OR G06F1/1643 OR G06F1/1656 OR G06F1/1658 OR G06F3/03 OR G06F3/14 OR G06F3/1431 OR G06F3/1446 OR G09G2300/0426 OR G09G2330/04 OR G09G2340/0442 OR G09G2354/00 OR G09G2380/02).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:38
S210	71	S187 AND ((G06F3/044 OR G06F2203/04103 OR G06F3/041 OR G06F2203/04102 OR G06F3/0412 OR G06F1/1652 OR G06F1/1643 OR G06F3/03 OR G06F1/1637 OR G06F1/169 OR G06F2203/04111 OR G06F3/042 OR G06F1/00 OR G06F1/1616 OR G06F1/1626 OR G06F1/1656 OR G06F1/1658 OR G06F21/32 OR G06F21/83 OR G06F2200/1637 OR G06F2203/04107 OR G06F3/0414 OR G06F3/0416 OR G06F3/0418 OR G06F3/0421 OR G06F3/045 OR G06F3/04886 OR G06F3/14 OR G06F3/1431 OR G06F3/1446 OR G09G3/20 OR G09G2300/0426 OR G09G2320/0247 OR G09G3/003 OR G09G3/3648 OR G09G2300/0439 OR G09G2300/046	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:39

BOE Ex. 1002, p. 154
BOE v. Paneltouch
IPR2025-01245

		OR G09G2320/0261 OR G09G2320/028 OR G09G2320/0626 OR G09G2320/103 OR G09G2330/021 OR G09G2330/04 OR G09G2340/0435 OR G09G2340/0442 OR G09G2354/00 OR G09G2360/142 OR G09G2360/144 OR G09G2360/16 OR G09G2380/02 OR G09G3/3225 OR G09G3/36 OR G09G3/3655 OR G09G5/10 OR G09G5/34).CPC.)				
S211	65	S186 AND ((G06F3/0412 OR G06F1/1652 OR G06F3/045 OR G06F1/1643 OR G06F3/041 OR G06F3/044 OR G06F3/047 OR G06F1/1616 OR G06F1/1626 OR G06F1/1637 OR G06F21/32 OR G06F21/83 OR G06F2203/04102 OR G06F2203/04103 OR G06F3/03 OR G06F3/0421 OR G06F3/04886 OR G06F1/00 OR G06F1/1601 OR G06F1/1603 OR G06F1/1607 OR G06F1/1656 OR G06F1/1658 OR G06F2200/1637 OR G06F2203/04107 OR G06F3/0321 OR G06F3/03545 OR G06F3/0414 OR G06F3/0416 OR G06F3/042 OR G06F3/14 OR G06F3/1431 OR G06F3/1446 OR G09G2300/0842 OR G09G2300/0861 OR G09G3/3241 OR G09G2300/0452 OR G09G2310/0251 OR G09G2310/0297 OR G09G2320/0261 OR G09G2320/066 OR G09G3/20 OR G09G3/2014 OR G09G3/22 OR G09G3/325 OR G09G3/3266 OR G09G3/3283 OR G09G2300/0408 OR G09G2300/0417 OR G09G2300/0809 OR G09G2300/0814 OR G09G2300/0866 OR G09G2310/02 OR G09G2310/0218 OR G09G2310/0256 OR G09G2310/0262 OR G09G2310/027 OR G09G2310/0283 OR G09G2310/06 OR G09G2310/061 OR G09G2320/0214 OR G09G2320/0223 OR G09G2320/0233 OR G09G2320/043 OR G09G2320/0606 OR G09G2320/0626 OR G09G2320/08 OR G09G2330/02 OR G09G2330/021 OR G09G2330/12 OR G09G3/006 OR G09G2300/0426 OR G09G2310/0235 OR G09G2310/0248 OR G09G2320/0247 OR G09G2320/0271 OR G09G2320/0276 OR G09G2320/064 OR G09G2360/144 OR G09G2360/16 OR G09G3/3406 OR G09G3/3648 OR G09G2300/0439 OR G09G2300/0443 OR G09G2360/14 OR G09G2360/142 OR G09G3/32 OR G09G2300/043 OR G09G2300/0456 OR G09G2320/0633 OR G09G2330/04 OR G09G2340/0442 OR G09G2354/00 OR G09G2380/02 OR G09G3/3233 OR G09G3/3258).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:39
S212	148	S185 AND ((G06F3/041 OR	US-PGPUB;	OR	OFF	2015/05/03

BOE Ex. 1002, p. 155
BOE v. Paneltouch
IPR2025-01245

		G06F2203/04103 OR G06F3/044 OR G06F1/1652 OR G06F1/1643 OR G06F2203/04102 OR G06F3/03 OR G06F3/0412 OR G06F1/1637 OR G06F1/169 OR G06F3/042 OR G06F1/00 OR G06F1/1616 OR G06F1/1626 OR G06F1/1656 OR G06F1/1658 OR G06F21/32 OR G06F21/83 OR G06F2200/1637 OR G06F3/0321 OR G06F3/03545 OR G06F3/0414 OR G06F3/0416 OR G06F3/0421 OR G06F3/045 OR G06F3/047 OR G06F3/04886 OR G06F3/14 OR G06F3/1431 OR G06F3/1446 OR G09G2300/0426 OR G09G2320/0247 OR G09G3/20 OR G09G3/3648 OR G09G2300/0439 OR G09G2310/0286 OR G09G2320/0261 OR G09G2320/0626 OR G09G2320/103 OR G09G2330/00 OR G09G2330/021 OR G09G2330/04 OR G09G2340/0435 OR G09G2340/0442 OR G09G2354/00 OR G09G2360/142 OR G09G2360/16 OR G09G2380/02 OR G09G3/36 OR G09G3/3655 OR G09G3/3677 OR G09G5/10 OR G09G5/34).CPC.)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			20:39
S213	104	S184 AND ((G06F3/044 OR G06F3/041 OR G06F3/045 OR G06F2203/04103 OR G06F3/0412 OR G06F3/03 OR G06F1/1652 OR G06F2203/04102 OR G06F3/042 OR G06F1/1637 OR G06F1/1643 OR G06F3/047 OR G06F1/00 OR G06F1/1616 OR G06F1/1626 OR G06F1/1656 OR G06F1/1658 OR G06F21/32 OR G06F21/83 OR G06F2200/1637 OR G06F2203/04107 OR G06F2203/04111 OR G06F3/0321 OR G06F3/03545 OR G06F3/0414 OR G06F3/0416 OR G06F3/0421 OR G06F3/04886 OR G06F3/14 OR G06F3/1431 OR G06F3/1446 OR G09G3/20 OR G09G2300/0426 OR G09G2320/0247 OR G09G3/3648 OR G09G2300/0439 OR G09G2300/046 OR G09G2300/0814 OR G09G2320/0261 OR G09G2320/028 OR G09G2320/0626 OR G09G2320/103 OR G09G2330/021 OR G09G2330/04 OR G09G2340/0435 OR G09G2340/0442 OR G09G2354/00 OR G09G2360/142 OR G09G2360/144 OR G09G2360/16 OR G09G2380/02 OR G09G3/003 OR G09G3/3225 OR G09G3/36 OR G09G5/10 OR G09G5/34).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:39
S214	40	S183 AND ((G06F3/044 OR G06F3/041 OR G06F2203/04103 OR G06F3/0416 OR G06F2203/04111 OR G06F2203/04112 OR G06F1/169 OR G06F2203/04107 OR G06F3/045 OR G06F1/1637 OR G06F2203/04106 OR G06F3/0412 OR G06F3/0414 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:39

BOE Ex. 1002, p. 156
BOE v. Paneltouch
IPR2025-01245

		G06F3/042 OR G06F3/047).CPC.)				
S215	44	S182 AND ((G06F3/044 OR G06F3/041 OR G06F2203/04103 OR G06F3/0416 OR G06F2203/04111 OR G06F2203/04112 OR G06F2203/04107 OR G06F3/045 OR G06F1/169 OR G06F1/1637 OR G06F2203/04102 OR G06F2203/04106 OR G06F3/0412 OR G06F3/0414 OR G06F3/0418 OR G06F3/042 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:39
S216	44	S181 AND ((G06F3/044 OR G06F3/041 OR G06F2203/04103 OR G06F3/0416 OR G06F2203/04111 OR G06F2203/04112 OR G06F2203/04107 OR G06F3/045 OR G06F1/169 OR G06F1/1637 OR G06F2203/04102 OR G06F2203/04106 OR G06F3/0412 OR G06F3/0414 OR G06F3/0418 OR G06F3/042 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:40
S217	68	S180 AND ((G06F3/044 OR G06F3/041 OR G06F2203/04103 OR G06F3/0412 OR G06F3/0416 OR G06F2203/04111 OR G06F2203/04112 OR G06F3/042 OR G06F2203/04107 OR G06F3/045 OR G06F3/0436 OR G06F2203/04106 OR G06F3/03545 OR G06F1/169 OR G06F3/0414 OR G06F3/0418 OR G06F1/1637 OR G06F1/1692 OR G06F2203/04101 OR G06F2203/04102 OR G06F3/033 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:40
S218	4	S179 AND ((G06F3/044 OR G06F2203/04107 OR G06F3/041 OR G06F1/1692 OR G06F2203/04101 OR G06F2203/04103 OR G06F2203/04111 OR G06F2203/04112 OR G06F3/0414 OR G06F3/0418).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:40
S219	32	S178 AND ((G06F3/044 OR G06F3/0412 OR G06F3/041 OR G06F2203/04103 OR G06F3/0416 OR G06F3/0414 OR G06F3/046 OR G06F2203/04106 OR G06F2203/04107 OR G06F2203/04808 OR G06F3/045 OR G06F3/0488 OR G06F1/16 OR G06F1/1643 OR G06F1/169 OR G06F1/1692 OR G06F2203/04101 OR G06F2203/04105 OR G06F2203/04111 OR G06F2203/04112 OR G06F3/0418).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:40
S220	8	S177 AND ((G06F3/044 OR G06F2203/04107 OR G06F3/041 OR G06F1/1692 OR G06F2203/04101 OR G06F2203/04103 OR G06F2203/04111 OR G06F2203/04112 OR G06F3/0412 OR G06F3/0414 OR G06F3/0418 OR G09G3/3648 OR G09G2320/0204 OR G09G2360/144 OR G09G2360/147 OR G09G3/3614).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:40
S221	193	S176 AND ((G06F3/044 OR G06F3/0412 OR G06F3/041 OR G06F3/0416 OR G06F2203/04103 OR	US-PGPUB; USPAT; USOCR;	OR	OFF	2015/05/03 20:40

BOE Ex. 1002, p. 157
BOE v. Paneltouch
IPR2025-01245

		G06F2203/04107 OR G06F2203/04101 OR G06F3/0414 OR G06F3/045 OR G06F1/1688 OR G06F2203/04106 OR G06F2203/04111 OR G06F2203/04112 OR G06F3/0321 OR G06F3/03542 OR G06F3/047 OR G06F1/16 OR G06F1/1603 OR G06F1/1605 OR G06F1/1616 OR G06F1/1637 OR G06F1/1643 OR G06F1/1647 OR G06F1/1652 OR G06F1/169 OR G06F1/1692 OR G06F2203/0384 OR G06F2203/04104 OR G06F2203/04105 OR G06F2203/04113 OR G06F2203/04803 OR G06F3/016 OR G06F3/03545 OR G06F3/0383 OR G06F3/0418 OR G06F3/042 OR G06F3/0425 OR G06F3/046 OR G06F3/1423 OR G06F3/147 OR G09G2300/0426 OR G09G3/003 OR G09G3/20 OR G09G3/3648 OR G09G5/003 OR G09G2300/023 OR G09G2300/0421 OR G09G2300/0478 OR G09G2300/08 OR G09G2310/0218 OR G09G2310/0267 OR G09G2310/0275 OR G09G2310/0281 OR G09G2310/0289 OR G09G2310/08 OR G09G2330/02 OR G09G2330/021 OR G09G2354/00 OR G09G2360/144 OR G09G2380/02 OR G09G2380/14 OR G09G3/18 OR G09G3/344 OR G09G3/36 OR G09G3/3611 OR G09G3/3677 OR G09G3/3688 OR G09G3/3696 OR G09G5/00 OR G09G5/12).CPC.)	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S222	157	S175 AND ((G06F3/044 OR G06F3/0412 OR G06F2203/04103 OR G06F3/041 OR G06F3/0416 OR G06F2203/04107 OR G06F3/045 OR G06F1/1603 OR G06F1/1616 OR G06F2203/04101 OR G06F2203/04112 OR G06F3/0321 OR G06F3/03542 OR G06F3/0414 OR G06F3/0418 OR G06F3/047 OR G06F1/1641 OR G06F1/1647 OR G06F1/1652 OR G06F1/1681 OR G06F1/169 OR G06F2203/0384 OR G06F2203/04104 OR G06F2203/04106 OR G06F2203/04111 OR G06F2203/04113 OR G06F3/03545 OR G06F3/0383 OR G06F3/042 OR G06F3/0425 OR G06F3/1423 OR G06F3/147 OR G09G3/20 OR G09G5/003 OR G09G2300/023 OR G09G2300/0421 OR G09G2300/0426 OR G09G2300/0478 OR G09G2300/08 OR G09G2310/0218 OR G09G2310/0267 OR G09G2310/0275 OR G09G2310/0281 OR G09G2310/0289 OR G09G2330/02 OR G09G2330/021 OR G09G2360/144 OR G09G2380/02 OR G09G2380/14 OR G09G3/344 OR G09G3/3611 OR G09G3/3648 OR G09G3/3677 OR G09G3/3688 OR G09G3/3696 OR G09G5/00).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:41

BOE Ex. 1002, p. 158
BOE v. Paneltouch
IPR2025-01245

S223	5	S194 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:41
S224	20	S195 AND ((G06F3/044 OR G06F2203/04103 OR G06F2203/04102 OR G06F3/0412 OR G06F1/1652 OR G06F2203/04111 OR G06F3/041 OR G06F1/1637 OR G06F1/1643 OR G06F1/1656 OR G06F1/1658 OR G06F3/03 OR G06F3/14 OR G06F3/1431 OR G06F3/1446 OR G09G2300/0426 OR G09G2330/04 OR G09G2340/0442 OR G09G2354/00 OR G09G2380/02).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:41
S225	4	S196 AND ((G06F3/044 OR G06F2203/04102 OR G06F2203/04103 OR G06F2203/04111 OR G06F1/1637 OR G06F1/1652 OR G06F1/1656 OR G06F1/1658).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:41
S226	6	S197 AND ((G06F3/044 OR G06F2203/04103 OR G06F2203/04102 OR G06F2203/04111 OR G06F3/041 OR G06F3/0412 OR G06F3/0418).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:41
S227	49360	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:48
S228	6	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same detect$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:48
S229	9503	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:48
S230	1625	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2015/05/03 20:48

BOE Ex. 1002, p. 159
BOE v. Paneltouch
IPR2025-01245

		substrate$1 and (outside$1 or eternal$1) same area$1	DERWENT; IBM_TDB			
S231	105	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:48
S232	44	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:48
S233	44	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:48
S234	44	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:48
S235	11	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) and detect$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:48
S236	0	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same intersect$3 same orthogonal$3 and (detect$3 or determin$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S237	4	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or	US-PGPUB; USPAT;	OR	OFF	2015/05/03 20:49

BOE Ex. 1002, p. 160
BOE v. Paneltouch
IPR2025-01245

		"349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S238	0	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same intersect$3 same orthogonal$3 and coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S239	4	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same (external or another or second) same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S240	2	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S241	2	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S242	31	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/05/03 20:49

BOE Ex. 1002, p. 161
BOE v. Paneltouch
IPR2025-01245

		eternal$1) same area$1 same external same terminal$1 and polariz$6 same film$1	IBM_TDB			
S243	18	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S244	18	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 near3 panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S245	13	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 near3 panel$1 same display$3 and (first and second) near3 substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S246	0	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S247	3	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1) same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S248	11	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) near3 area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S249	10	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or	US-PGPUB; USPAT;	OR	OFF	2015/05/03 20:54

BOE Ex. 1002, p. 162
BOE v. Paneltouch
IPR2025-01245

		"349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) near3 area$1 same external near3 terminal$1 same form$3 and polariz$6 same film$1	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S250	44	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:54
S251	322	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:54
S252	284	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:54
S253	8	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S254	35	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/05/03 20:55

BOE Ex. 1002, p. 163
BOE v. Paneltouch
IPR2025-01245

		electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	IBM_TDB			
S255	4	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S256	4	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S257	70	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S258	44	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or interconnect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S259	40	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2015/05/03 20:55

BOE Ex. 1002, p. 164
BOE v. Paneltouch
IPR2025-01245

		touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4) and (first and second) same substrate$1	DERWENT; IBM_TDB			
S260	76	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4) and (first and second) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S261	54	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4) and (first and second) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S262	54	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S263	200	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular same polariz$3 adj (plate$1 or film$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S264	319	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2015/05/03 20:55

BOE Ex. 1002, p. 165
BOE v. Paneltouch
IPR2025-01245

		display$3 and circular same polariz$3 same (plate$1 or film$1)	EPO; JPO; DERWENT; IBM_TDB			
S265	96	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular adj polariz$3 adj (plate$1 or film$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S266	108	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S267	20	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S268	4	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S269	38	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch panel same circul$3 same polariz$3 same plate$1 same arrang$3 same order	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S270	6	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2015/05/03 20:55

BOE Ex. 1002, p. 166
BOE v. Paneltouch
IPR2025-01245

		display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	EPO; JPO; DERWENT; IBM_TDB			
S271	1	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S272	1	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S273	5	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 and circul$3 same polariz$6 same (film$1 or plate$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S274	20	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55

BOE Ex. 1002, p. 167
BOE v. Paneltouch
IPR2025-01245

		second) same touch$3 same sens$3 same (line$1 or electrode$1)				
S275	4	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S276	6	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same panel$1 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S277	5	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S278	4	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S288	0	("2015/0116255").URPN.	USPAT	OR	OFF	2015/05/03 21:05
S289	0	(14/067810).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:06
S290	0	("2015/0077383").URPN.	USPAT	OR	OFF	2015/05/03 21:06
S291	0	(14/218752).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:06
S292	1	("2014/0327644").URPN.	USPAT	OR	OFF	2015/05/03

BOE Ex. 1002, p. 168
BOE v. Paneltouch
IPR2025-01245

						21:06
S293	1	(13/887373).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:06
S294	1	("2014/0306913").URPN.	USPAT	OR	OFF	2015/05/03 21:07
S295	0	(14/315162).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:07
S296	0	("2014/0184950").URPN.	USPAT	OR	OFF	2015/05/03 21:07
S297	0	(14/141358).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:07
S298	0	("2014/0132861").URPN.	USPAT	OR	OFF	2015/05/03 21:07
S299	0	(14/165553).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:07
S300	0	("2014/0098051").URPN.	USPAT	OR	OFF	2015/05/03 21:07
S301	1	(14/055717).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:07
S302	0	("2014/0049497").URPN.	USPAT	OR	OFF	2015/05/03 21:08
S303	0	(14/047808).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:08
S304	2	("2014/0043293").URPN.	USPAT	OR	OFF	2015/05/03 21:08
S305	0	(14/056841).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:08
S306	5	("2013/0120303").URPN.	USPAT	OR	OFF	2015/05/03 21:08
S307	1	(13/737779).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:08
S308	3	("2012/0299880").URPN.	USPAT	OR	OFF	2015/05/03 21:08
S309	1	(13/568027).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:08
S310	11	("2012/0019467").URPN.	USPAT	OR	OFF	2015/05/03 21:09
S311	1	(13/250984).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:09
S312	8	("2011/0012840").URPN.	USPAT	OR	OFF	2015/05/03 21:09
S313	0	(12/504639).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:09
S314	20	("2011/0007020").URPN.	USPAT	OR	OFF	2015/05/03 21:09
S315	1	(12/500911).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:09
S316	13	("2010/0328228").URPN.	USPAT	OR	OFF	2015/05/03 21:09
S317	1	(12/494173).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:09
S318	29	("2010/0060593").URPN.	USPAT	OR	OFF	2015/05/03 21:10
S319	1	(12/283435).APP.	USPAT;	OR	OFF	2015/05/03

BOE Ex. 1002, p. 169
BOE v. Paneltouch
IPR2025-01245

			USOCR			21:10
S320	10	("20020080728" | "20020185608" | "20050186958" | "20050259568" | "20070275675" | "20080116904" | "20100228810" | "20120056841" | "20120287055" | "5548236").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:10
S321	0	("9001066").URPN.	USPAT	OR	OFF	2015/05/03 21:10
S322	1	(13/887373).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:10
S323	45	("20030132922" | "20040183833" | "20060026521" | "20060114650" | "20060132462" | "20060197753" | "20070109274" | "20070273663" | "20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100059295" | "20100060589" | "20100060593" | "20120019467" | "20120299880" | "20140022203" | "20140043293" | "20140306913" | "5483261" | "5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122" | "8592697" | "8593423" | "8791920").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:10
S324	0	("8988390").URPN.	USPAT	OR	OFF	2015/05/03 21:10
S325	0	(13/935333).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:11
S326	130	("20030076325" | "20040017362" | "20040090429" | "20040119701" | "20040239650" | "20050069718" | "20050073507" | "20050083307" | "20050126831" | "20050146509" | "20050270039" | "20050280639" | "20060038791" | "20060132463" | "20060146484" | "20060197753" | "20060278444" | "20070008299" | "20070012665" | "20070074914" | "20070229468" | "20070229470" | "20070247443" | "20070262963" | "20070279395" | "20070283832" | "20080024456" | "20080062140" | "20080074398" | "20080136787" | "20080158167" | "20080158181" | "20080264699" | "20080277259" | "20080283175" | "20080303022" | "20080309633" | "20080309635" | "20090002337" | "20090019344" | "20090054107" | "20090085894" | "20090091551" | "20090135157" | "20090182189" | "20090184937" | "20090205879" | "20090236151" | "20090242283" | "20090267902" | "20090273577" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20090322702" | "20100001973" | "20100007616"	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:11

BOE Ex. 1002, p. 170
BOE v. Paneltouch
IPR2025-01245

		"20100059294" | "20100079384" | "20100110035" | "20100117985" | "20100143848" | "20100149108" | "20100194696" | "20100253638" | "20100328228" | "20100328248" | "20110007020" | "20110096016" | "20110134050" | "20120026099" | "20120113047" | "20120169652" | "20120169653" | "20120169655" | "20120169656" | "20130120303" | "20130224370" | "20130257798" | "20140022186" | "20140132860" | "4087625" | "4090092" | "4304976" | "4475235" | "4659874" | "5194862" | "5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5841078" | "5844506" | "5880411").PN. OR ("6137427" | "6163313" | "6188391" | "6310610" | "6323846" | "6452514" | "6690387" | "6730863" | "6970160" | "7015894" | "7030860" | "7129935" | "7138686" | "7184064" | "7538760" | "7548073" | "7639234" | "7663607" | "7932898" | "8120371" | "8223133" | "8258986" | "8259078" | "8283935" | "8319747" | "8441464" | "8479122" | "8487898" | "8576193" | "8593410" | "8593425" | "8614688" | "8633915").PN.				
S327	0	("8982096").URPN.	USPAT	OR	OFF	2015/05/03 21:11
S328	1	(14/055717).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:11
S329	31	("20060026521" | "20060097991" | "20060197753" | "20070043963" | "20080162996" | "20080272827" | "20080307240" | "20090260898" | "20100115314" | "5483261" | "5488204" | "5790875" | "5825352" | "5835079" | "5880411" | "6058485" | "6188391" | "6282177" | "6310610" | "6323846" | "6690387" | "6801196" | "7015894" | "7016705" | "7023425" | "7184064" | "7506189" | "7508451" | "7509150" | "7663607" | "8479122").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:11
S330	0	("8970506").URPN.	USPAT	OR	OFF	2015/05/03 21:11
S331	1	(12/557962).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:11
S332	1	(12/494173).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:11
S333	119	("20030076325" | "20040017362" | "20040090429" | "20040119701" | "20040239650" | "20050069718" | "20050073507" | "20050083307" | "20050126831" | "20050146509" | "20050270039" | "20050280639" | "20060026521" | "20060038791" | "20060097991" | "20060132463" | "20060146484" | "20060197753" | "20060278444" | "20070008299" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:12

BOE Ex. 1002, p. 171
BOE v. Paneltouch
IPR2025-01245

		"20070012665" | "20070074914" | "20070229468" | "20070229470" | "20070247443" | "20070262963" | "20070279395" | "20070283832" | "20080024456" | "20080062140" | "20080074398" | "20080136787" | "20080158167" | "20080158181" | "20080264699" | "20080277259" | "20080283175" | "20080303022" | "20080309633" | "20080309635" | "20090002337" | "20090019344" | "20090054107" | "20090085894" | "20090091551" | "20090135157" | "20090182189" | "20090184937" | "20090205879" | "20090236151" | "20090242283" | "20090267902" | "20090273577" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20090322702" | "20100001973" | "20100007616" | "20100059294" | "20100079384" | "20100110035" | "20100117985" | "20100143848" | "20100149108" | "20100194696" | "20100253638" | "20100328248" | "20110007020" | "20110096016" | "20110134050" | "20120026099" | "20120113047" | "20130120303" | "4087625" | "4090092" | "4304976" | "4475235" | "4659874" | "5194862" | "5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5841078" | "5844506" | "5880411" | "6137427" | "6163313" | "6188391" | "6310610" | "6323846" | "6452514" | "6690387" | "6730863" | "6970160" | "7015894").PN. OR ("7030860" | "7129935" | "7138686" | "7184064" | "7538760" | "7548073" | "7639234" | "7663607" | "7864503" | "7932898" | "8120371" | "8223133" | "8258986" | "8259078" | "8283935" | "8319747" | "8479122" | "8487898" | "8593425").PN.				
S334	0	("8957874").URPN.	USPAT	OR	OFF	2015/05/03 21:12
S335	41	("20030132922" | "20040183833" | "20060026521" | "20060114650" | "20060132462" | "20060197753" | "20070109274" | "20070273663" | "20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100059295" | "20100060589" | "20100060593" | "20120019467" | "20140043293" | "5483261" | "5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122" | "8592697" | "8593423").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:12

BOE Ex. 1002, p. 172
BOE v. Paneltouch
IPR2025-01245

S336	1	("8791920").URPN.	USPAT	OR	OFF	2015/05/03 21:12
S337	1	(13/568027).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:12
S338	33	("20040140973" | "20060026521" | "20060097991" | "20060197753" | "20080259043" | "20090025987" | "20090114456" | "20090153493" | "20100060592" | "20100201812" | "5483261" | "5488204" | "5585817" | "5729008" | "5812109" | "5825352" | "5835079" | "5880411" | "6005681" | "6188391" | "6310610" | "6323846" | "6502191" | "6690387" | "6864860" | "7015894" | "7184064" | "7190336" | "7436394" | "7500615" | "7663607" | "7714923" | "8479122").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:12
S339	0	("8664548").URPN.	USPAT	OR	OFF	2015/05/03 21:12
S340	1	(12/558140).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:12
S341	94	("20030076325" | "20040017362" | "20040090429" | "20040119701" | "20040239650" | "20050073507" | "20050083307" | "20050126831" | "20050146509" | "20050270039" | "20050280639" | "20060026521" | "20060038791" | "20060097991" | "20060132463" | "20060146484" | "20060197753" | "20070008299" | "20070074914" | "20070229468" | "20070247443" | "20070279395" | "20080024456" | "20080062140" | "20080074398" | "20080136787" | "20080158167" | "20080158181" | "20080264699" | "20080277259" | "20080283175" | "20080309633" | "20080309635" | "20090002337" | "20090019344" | "20090054107" | "20090091551" | "20090135157" | "20090182189" | "20090184937" | "20090236151" | "20090242283" | "20090267902" | "20090273577" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20100001973" | "20100007616" | "20100059294" | "20100079384" | "20100110035" | "20100149108" | "20100194696" | "20100253638" | "20100328228" | "20100328248" | "20110007020" | "20130120303" | "4087625" | "4090092" | "4304976" | "4475235" | "4659874" | "5194862" | "5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5880411" | "6188391" | "6310610" | "6323846" | "6690387" | "6730863" | "6970160" | "7015894" | "7030860" | "7129935" | "7138686" | "7184064" | "7538760" | "7548073" | "7639234" | "7663607" | "7932898" | "8120371" | "8223133" | "8319747" | "8479122" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:13

BOE Ex. 1002, p. 173
BOE v. Paneltouch
IPR2025-01245

		"8487898").PN.				
S342	2	("8593425").URPN.	USPAT	OR	OFF	2015/05/03 21:13
S343	1	(13/737779).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:13
S344	38	("20030132922" | "20040183833" | "20060026521" | "20060114650" | "20060132462" | "20060197753" | "20070273663" | "20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100059295" | "20100060589" | "20100060591" | "20100060593" | "20120299880" | "5483261" | "5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:13
S345	2	("8593423").URPN.	USPAT	OR	OFF	2015/05/03 21:13
S346	1	(13/250984).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:13
S347	63	("20040017362" | "20040090429" | "20040239650" | "20050073507" | "20050083307" | "20050146509" | "20050270039" | "20050280639" | "20060026521" | "20060038791" | "20060097991" | "20060132463" | "20060146484" | "20060197753" | "20070008299" | "20070074914" | "20070229468" | "20070247443" | "20070279395" | "20080074398" | "20080136787" | "20080158167" | "20080158181" | "20080264699" | "20080277259" | "20080309633" | "20080309635" | "20090002337" | "20090019344" | "20090054107" | "20090091551" | "20090236151" | "20090242283" | "20090267902" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20100149108" | "20100328248" | "4304976" | "4659874" | "5194862" | "5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5880411" | "6188391" | "6310610" | "6323846" | "6690387" | "7015894" | "7129935" | "7138686" | "7184064" | "7538760" | "7663607" | "8120371" | "8223133" | "8319747").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:13
S348	1	("8593410").URPN.	USPAT	OR	OFF	2015/05/03 21:13
S349	1	(12/500911).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:14
S350	38	("20030132922" | "20040183833" | "20060026521" | "20060097991" | "20060114650" | "20060132462" | "20060197753" | "20070273663" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:14

BOE Ex. 1002, p. 174
BOE v. Paneltouch
IPR2025-01245

		"20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100060589" | "20100060593" | "20120019467" | "20120299880" | "5483261" | "5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122").PN.				
S351	2	("8592697").URPN.	USPAT	OR	OFF	2015/05/03 21:14
S352	1	(12/283423).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:14
S353	19	("20060026521" | "20060097991" | "20060197753" | "20080157867" | "20080309625" | "20090009483" | "20100060589" | "5483261" | "5488204" | "5825352" | "5835079" | "5880411" | "6188391" | "6310610" | "6323846" | "6690387" | "7015894" | "7184064" | "7663607").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:14
S354	8	("8237667").URPN.	USPAT	OR	OFF	2015/05/03 21:14
S355	1	(12/283435).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:14
S356	25	("20060026521" | "20060097991" | "20060197753" | "20070257890" | "20080158175" | "20100059295" | "20100085325" | "5183040" | "5359156" | "5483261" | "5488204" | "5796389" | "5825352" | "5835079" | "5880411" | "6161042" | "6188391" | "6310610" | "6323846" | "6535147" | "6690387" | "6967606" | "7015894" | "7184064" | "7663607").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:15
S357	107	("8031094").URPN.	USPAT	OR	OFF	2015/05/03 21:15
S358	1	(12/558374).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:15
S359	0	("2014/0327644").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S360	0	(13/887373).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or	USPAT; USOCR	OR	OFF	2015/05/03 21:18

BOE Ex. 1002, p. 175
BOE v. Paneltouch
IPR2025-01245

		perpendicular) and polariz$6 same film$1				
S361	0	("2014/0306913").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S362	0	(14/055717).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT; USOCR	OR	OFF	2015/05/03 21:18
S363	0	("2014/0043293").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S364	0	("2013/0120303").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S365	0	(13/737779).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT; USOCR	OR	OFF	2015/05/03 21:18
S366	0	("2012/0299880").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18

BOE Ex. 1002, p. 176
BOE v. Paneltouch
IPR2025-01245

S367	0	(13/568027).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT; USOCR	OR	OFF	2015/05/03 21:18
S368	0	("2012/0019467").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S369	0	(13/250984).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT; USOCR	OR	OFF	2015/05/03 21:18
S370	0	("2011/0012840").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S371	0	("2011/0007020").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S372	0	("2010/0328228").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S373	0	(12/500911).APP. and touch$3 same panel$1 same display$3 and (first and	USPAT; USOCR	OR	OFF	2015/05/03 21:18

BOE Ex. 1002, p. 177
BOE v. Paneltouch
IPR2025-01245

		second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S374	0	(12/494173).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT; USOCR	OR	OFF	2015/05/03 21:18
S375	0	("2010/0060593").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S376	0	("2010/0328228").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S377	0	(12/494173).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT; USOCR	OR	OFF	2015/05/03 21:22
S378	0	("2010/0060593").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:23
S379	0	(12/283435).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1	USPAT; USOCR	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 178
BOE v. Paneltouch
IPR2025-01245

		same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S380	0	("20020080728" | "20020185608" | "20050186958" | "20050259568" | "20070275675" | "20080116904" | "20100228810" | "20120056841" | "20120287055" | "5548236").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23
S381	0	(13/887373).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23
S382	0	("20030132922" | "20040183833" | "20060026521" | "20060114650" | "20060132462" | "20060197753" | "20070109274" | "20070273663" | "20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100059295" | "20100060589" | "20100060593" | "20120019467" | "20120299880" | "20140022203" | "20140043293" | "20140306913" | "5483261" | "5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122" | "8592697" | "8593423" | "8791920").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23
S383	0	("20030076325" | "20040017362" | "20040090429" | "20040119701" | "20040239650" | "20050069718" | "20050073507" | "20050083307" | "20050126831" | "20050146509" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 179
BOE v. Paneltouch
IPR2025-01245

		"20050270039" | "20050280639" | "20060038791" | "20060132463" | "20060146484" | "20060197753" | "20060278444" | "20070008299" | "20070012665" | "20070074914" | "20070229468" | "20070229470" | "20070247443" | "20070262963" | "20070279395" | "20070283832" | "20080024456" | "20080062140" | "20080074398" | "20080136787" | "20080158167" | "20080158181" | "20080264699" | "20080277259" | "20080283175" | "20080303022" | "20080309633" | "20080309635" | "20090002337" | "20090019344" | "20090054107" | "20090085894" | "20090091551" | "20090135157" | "20090182189" | "20090184937" | "20090205879" | "20090236151" | "20090242283" | "20090267902" | "20090273577" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20090322702" | "20100001973" | "20100007616" | "20100059294" | "20100079384" | "20100110035" | "20100117985" | "20100143848" | "20100149108" | "20100194696" | "20100253638" | "20100328228" | "20100328248" | "20110007020" | "20110096016" | "20110134050" | "20120026099" | "20120113047" | "20120169652" | "20120169653" | "20120169655" | "20120169656" | "20130120303" | "20130224370" | "20130257798" | "20140022186" | "20140132860" | "4087625" | "4090092" | "4304976" | "4475235" | "4659874" | "5194862" | "5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5841078" | "5844506" | "5880411").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1			
S384	0	("6137427" | "6163313" | "6188391" | "6310610" | "6323846" | "6452514" | "6690387" | "6730863" | "6970160" | "7015894" | "7030860" | "7129935" | "7138686" | "7184064" | "7538760" | "7548073" | "7639234" | "7663607" | "7932898" | "8120371" | "8223133" | "8258986" | "8259078" | "8283935" | "8319747" | "8441464" | "8479122" | "8487898" | "8576193" | "8593410" | "8593425" | "8614688" | "8633915").PN. and touch$3 same panel$1 same display$3 and (first and	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 180
BOE v. Paneltouch
IPR2025-01245

		second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S385	0	("20060026521" | "20060097991" | "20060197753" | "20070043963" | "20080162996" | "20080272827" | "20080307240" | "20090260898" | "20100115314" | "5483261" | "5488204" | "5790875" | "5825352" | "5835079" | "5880411" | "6058485" | "6188391" | "6282177" | "6310610" | "6323846" | "6690387" | "6801196" | "7015894" | "7016705" | "7023425" | "7184064" | "7506189" | "7508451" | "7509150" | "7663607" | "8479122").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23
S386	0	(14/055717).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23
S387	0	(12/557962).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23
S388	0	(12/494173).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23
S389	0	("20030076325" | "20040017362" | "20040090429" | "20040119701" |	US-PGPUB; USPAT;	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 181
BOE v. Paneltouch
IPR2025-01245

		"20040239650" | "20050069718" | "20050073507" | "20050083307" | "20050126831" | "20050146509" | "20050270039" | "20050280639" | "20060026521" | "20060038791" | "20060097991" | "20060132463" | "20060146484" | "20060197753" | "20060278444" | "20070008299" | "20070012665" | "20070074914" | "20070229468" | "20070229470" | "20070247443" | "20070262963" | "20070279395" | "20070283832" | "20080024456" | "20080062140" | "20080074398" | "20080136787" | "20080158167" | "20080158181" | "20080264699" | "20080277259" | "20080283175" | "20080303022" | "20080309633" | "20080309635" | "20090002337" | "20090019344" | "20090054107" | "20090085894" | "20090091551" | "20090135157" | "20090182189" | "20090184937" | "20090205879" | "20090236151" | "20090242283" | "20090267902" | "20090273577" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20090322702" | "20100001973" | "20100007616" | "20100059294" | "20100079384" | "20100110035" | "20100117985" | "20100143848" | "20100149108" | "20100194696" | "20100253638" | "20100328248" | "20110007020" | "20110096016" | "20110134050" | "20120026099" | "20120113047" | "20130120303" | "4087625" | "4090092" | "4304976" | "4475235" | "4659874" | "5194862" | "5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5841078" | "5844506" | "5880411" | "6137427" | "6163313" | "6188391" | "6310610" | "6323846" | "6452514" | "6690387" | "6730863" | "6970160" | "7015894").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USOCR			
S390	0	("7030860" | "7129935" | "7138686" | "7184064" | "7538760" | "7548073" | "7639234" | "7663607" | "7864503" | "7932898" | "8120371" | "8223133" | "8258986" | "8259078" | "8283935" | "8319747" | "8479122" | "8487898" | "8593425").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 182
BOE v. Paneltouch
IPR2025-01245

		same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S391	0	("20030132922" | "20040183833" | "20060026521" | "20060114650" | "20060132462" | "20060197753" | "20070109274" | "20070273663" | "20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100059295" | "20100060589" | "20100060593" | "20120019467" | "20140043293" | "5483261" | "5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122" | "8592697" | "8593423").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23
S392	0	("8791920").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:23
S393	0	(13/568027).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23
S394	0	("20040140973" | "20060026521" | "20060097991" | "20060197753" | "20080259043" | "20090025987" | "20090114456" | "20090153493" | "20100060592" | "20100201812" | "5483261" | "5488204" | "5585817" | "5729008" | "5812109" | "5825352" | "5835079" | "5880411" | "6005681" | "6188391" | "6310610" | "6323846" | "6502191" | "6690387" | "6864860" | "7015894" | "7184064" | "7190336" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 183
BOE v. Paneltouch
IPR2025-01245

		"7436394" | "7500615" | "7663607" | "7714923" | "8479122").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S395	0	(12/558140).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23
S396	0	(12/558140).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23
S397	0	("20030076325" | "20040017362" | "20040090429" | "20040119701" | "20040239650" | "20050073507" | "20050083307" | "20050126831" | "20050146509" | "20050270039" | "20050280639" | "20060026521" | "20060038791" | "20060097991" | "20060132463" | "20060146484" | "20060197753" | "20070008299" | "20070074914" | "20070229468" | "20070247443" | "20070279395" | "20080024456" | "20080062140" | "20080074398" | "20080136787" | "20080158167" | "20080158181" | "20080264699" | "20080277259" | "20080283175" | "20080309633" | "20080309635" | "20090002337" | "20090019344" | "20090054107" | "20090091551" | "20090135157" | "20090182189" | "20090184937" | "20090236151" | "20090242283" | "20090267902" | "20090273577" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20100001973" | "20100007616" | "20100059294" | "20100079384" | "20100110035" | "20100149108" | "20100194696" | "20100253638" | "20100328228" | "20100328248" | "20110007020" | "20130120303" | "4087625" | "4090092" | "4304976" | "4475235" | "4659874" | "5194862" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 184
BOE v. Paneltouch
IPR2025-01245

		"5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5880411" | "6188391" | "6310610" | "6323846" | "6690387" | "6730863" | "6970160" | "7015894" | "7030860" | "7129935" | "7138686" | "7184064" | "7538760" | "7548073" | "7639234" | "7663607" | "7932898" | "8120371" | "8223133" | "8319747" | "8479122" | "8487898").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S398	0	("8593425").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:23
S399	0	(13/737779).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23
S400	0	("20030132922" | "20040183833" | "20060026521" | "20060114650" | "20060132462" | "20060197753" | "20070273663" | "20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100059295" | "20100060589" | "20100060591" | "20100060593" | "20120299880" | "5483261" | "5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 185
BOE v. Paneltouch
IPR2025-01245

		polariz$6 same film$1				
S401	0	("8593423").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:23
S402	0	(13/250984).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23
S403	0	("20040017362" | "20040090429" | "20040239650" | "20050073507" | "20050083307" | "20050146509" | "20050270039" | "20050280639" | "20060026521" | "20060038791" | "20060097991" | "20060132463" | "20060146484" | "20060197753" | "20070008299" | "20070074914" | "20070229468" | "20070247443" | "20070279395" | "20080074398" | "20080136787" | "20080158167" | "20080158181" | "20080264699" | "20080277259" | "20080309633" | "20080309635" | "20090002337" | "20090019344" | "20090054107" | "20090091551" | "20090236151" | "20090242283" | "20090267902" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20100149108" | "20100328248" | "4304976" | "4659874" | "5194862" | "5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5880411" | "6188391" | "6310610" | "6323846" | "6690387" | "7015894" | "7129935" | "7138686" | "7184064" | "7538760" | "7663607" | "8120371" | "8223133" | "8319747").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23
S404	0	("8593410").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same	USPAT	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 186
BOE v. Paneltouch
IPR2025-01245

		form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S405	0	(13/737779).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:27
S406	0	("20030132922" | "20040183833" | "20060026521" | "20060114650" | "20060132462" | "20060197753" | "20070273663" | "20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100059295" | "20100060589" | "20100060591" | "20100060593" | "20120299880" | "5483261" | "5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:27
S407	0	("8593423").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:27
S408	0	(13/250984).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:27
S409	0	("20040017362" | "20040090429" | "20040239650" | "20050073507" |	US-PGPUB; USPAT;	OR	OFF	2015/05/03 21:27

BOE Ex. 1002, p. 187
BOE v. Paneltouch
IPR2025-01245

		"20050083307" | "20050146509" | "20050270039" | "20050280639" | "20060026521" | "20060038791" | "20060097991" | "20060132463" | "20060146484" | "20060197753" | "20070008299" | "20070074914" | "20070229468" | "20070247443" | "20070279395" | "20080074398" | "20080136787" | "20080158167" | "20080158181" | "20080264699" | "20080277259" | "20080309633" | "20080309635" | "20090002337" | "20090019344" | "20090054107" | "20090091551" | "20090236151" | "20090242283" | "20090267902" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20100149108" | "20100328248" | "4304976" | "4659874" | "5194862" | "5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5880411" | "6188391" | "6310610" | "6323846" | "6690387" | "7015894" | "7129935" | "7138686" | "7184064" | "7538760" | "7663607" | "8120371" | "8223133" | "8319747").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USOCR			
S410	0	("8593410").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:27
S411	0	(12/500911).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:27
S412	0	("20030132922" | "20040183833" | "20060026521" | "20060097991" | "20060114650" | "20060132462" | "20060197753" | "20070273663" | "20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100060589" | "20100060593" | "20120019467" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:27

BOE Ex. 1002, p. 188
BOE v. Paneltouch
IPR2025-01245

		"20120299880" | "5483261" | "5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S413	0	("8592697").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:27
S414	0	(12/283423).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:27
S415	0	("20060026521" | "20060097991" | "20060197753" | "20080157867" | "20080309625" | "20090009483" | "20100060589" | "5483261" | "5488204" | "5825352" | "5835079" | "5880411" | "6188391" | "6310610" | "6323846" | "6690387" | "7015894" | "7184064" | "7663607").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:27
S416	0	("8237667").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same	USPAT	OR	OFF	2015/05/03 21:27

BOE Ex. 1002, p. 189
BOE v. Paneltouch
IPR2025-01245

		film$1				
S417	0	(12/283435).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:27
S418	0	("20060026521" | "20060097991" | "20060197753" | "20070257890" | "20080158175" | "20100059295" | "20100085325" | "5183040" | "5359156" | "5483261" | "5488204" | "5796389" | "5825352" | "5835079" | "5880411" | "6161042" | "6188391" | "6310610" | "6323846" | "6535147" | "6690387" | "6967606" | "7015894" | "7184064" | "7663607").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:27
S419	0	("8031094").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:27
S420	0	(12/558374).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:27
S421	25	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:29
S422	0	("2015/0055286").URPN.	USPAT	OR	OFF	2015/05/03 21:30
S423	0	(14/461950).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:30

BOE Ex. 1002, p. 190
BOE v. Paneltouch
IPR2025-01245

S424	0	("2015/0035777").URPN.	USPAT	OR	OFF	2015/05/03 21:30
S425	0	(14/444799).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:30
S426	0	("2015/0023030").URPN.	USPAT	OR	OFF	2015/05/03 21:30
S427	0	(14/331453).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:30
S428	0	("2015/0015532").URPN.	USPAT	OR	OFF	2015/05/03 21:30
S429	0	(14/102385).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:30
S430	0	("2015/0009128").URPN.	USPAT	OR	OFF	2015/05/03 21:30
S431	0	(14/311842).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:30
S432	0	("2014/0361980").URPN.	USPAT	OR	OFF	2015/05/03 21:30
S433	0	(14/284793).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:31
S434	0	("2014/0203277").URPN.	USPAT	OR	OFF	2015/05/03 21:31
S435	0	(14/156892).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:31
S436	0	("2014/0192277").URPN.	USPAT	OR	OFF	2015/05/03 21:31
S437	0	(14/204949).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:31
S438	0	("2014/0175433").URPN.	USPAT	OR	OFF	2015/05/03 21:31
S439	0	(14/134284).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:31
S440	0	("2014/0162057").URPN.	USPAT	OR	OFF	2015/05/03 21:31
S441	0	(14/175358).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:31
S442	0	("2014/0110708").URPN.	USPAT	OR	OFF	2015/05/03 21:31
S443	0	(14/062481).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:31
S444	0	("2014/0110707").URPN.	USPAT	OR	OFF	2015/05/03 21:31
S445	0	(14/061510).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:31
S446	0	("2014/0110705").URPN.	USPAT	OR	OFF	2015/05/03 21:32
S447	0	(14/060925).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:32
S448	1	("2014/0028584").URPN.	USPAT	OR	OFF	2015/05/03 21:32
S449	0	(13/717617).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:32
S450	0	("2014/0009429").URPN.	USPAT	OR	OFF	2015/05/03 21:32

BOE Ex. 1002, p. 191
BOE v. Paneltouch
IPR2025-01245

S451	0	(13/541501).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:32
S452	0	("2013/0293096").URPN.	USPAT	OR	OFF	2015/05/03 21:32
S453	1	(13/888574).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:32
S454	0	("2013/0278511").URPN.	USPAT	OR	OFF	2015/05/03 21:32
S455	0	(13/541207).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:32
S456	0	("2013/0215077").URPN.	USPAT	OR	OFF	2015/05/03 21:32
S457	0	(13/761795).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:33
S458	0	("2013/0162549").URPN.	USPAT	OR	OFF	2015/05/03 21:33
S459	0	(13/463528).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:33
S460	0	("2013/0057495").URPN.	USPAT	OR	OFF	2015/05/03 21:33
S461	0	(13/600244).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:33
S462	2	("2010/0097344").URPN.	USPAT	OR	OFF	2015/05/03 21:33
S463	0	(12/434341).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:33
S464	79	("2008/0266273").URPN.	USPAT	OR	OFF	2015/05/03 21:33
S465	0	(12/109140).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:33
S466	6	("20010008433" | "20040075779" | "20040239641" | "20120031746" | "20120306777" | "20130181910").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:36
S467	0	("8946985").URPN.	USPAT	OR	OFF	2015/05/03 21:36
S468	1	(13/888574).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:36
S469	9	("20020180910" | "20030067448" | "20030067449" | "20040238726" | "20050184971" | "20060001655" | "20060044279" | "20060250373" | "20070002192").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:37
S470	2	("7948179").URPN.	USPAT	OR	OFF	2015/05/03 21:37
S471	1	(12/773262).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:38
S472	0	("2014/0028584").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or	USPAT	OR	OFF	2015/05/03 21:39

BOE Ex. 1002, p. 192
BOE v. Paneltouch
IPR2025-01245

		perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S473	0	(13/888574).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT; USOCR	OR	OFF	2015/05/03 21:39
S474	0	("2010/0097344").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT	OR	OFF	2015/05/03 21:39
S475	0	("2008/0266273").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT	OR	OFF	2015/05/03 21:39
S476	0	("20010008433" | "20040075779" | "20040239641" | "20120031746" | "20120306777" | "20130181910").PN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:39

BOE Ex. 1002, p. 193
BOE v. Paneltouch
IPR2025-01245

		(coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S477	0	(13/888574).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:39
S478	0	("20020180910" | "20030067448" | "20030067449" | "20040238726" | "20050184971" | "20060001655" | "20060044279" | "20060250373" | "20070002192").PN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:39
S479	0	("7948179").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT	OR	OFF	2015/05/03 21:39
S480	0	(12/773262).APP. and touch$3 same panel$1 same display$3 and circular	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:39

BOE Ex. 1002, p. 194
BOE v. Paneltouch
IPR2025-01245

		same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S481	8	"2002342014"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:41
S482	0	"2002342014" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:41
S483	0	"20010043291" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:54
S484	0	"20100085322" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:54

BOE Ex. 1002, p. 195
BOE v. Paneltouch
IPR2025-01245

		perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S485	0	"20060274049" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:54
S486	0	"20050190338" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:54
S487	0	"20080030483" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:54
S488	0	"20090128518" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:54

BOE Ex. 1002, p. 196
BOE v. Paneltouch
IPR2025-01245

		(othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S489	0	"20050046622" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:54
S490	0	"20090143141" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:54
S491	0	"20090086318" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:54
S492	0	"20090046077" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:56

BOE Ex. 1002, p. 197
BOE v. Paneltouch
IPR2025-01245

		(line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S493	0	"20090096763" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:56
S494	0	"20050139398" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:56
S495	0	"20100033443" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:56
S496	0	"20090167721" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:56

BOE Ex. 1002, p. 198
BOE v. Paneltouch
IPR2025-01245

		(detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S497	0	"20100085326" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:56
S498	0	"20110069036" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:56
S499	0	"20020047969" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:56
S500	0	"20060274047" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/05/03 21:57

BOE Ex. 1002, p. 199
BOE v. Paneltouch
IPR2025-01245

		sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	IBM_TDB			
S501	0	"20030090803" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:57
S502	0	"6,078,274".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:00
S503	0	"8,072,436".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:00
S504	0	"7,868,957".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2015/05/03 22:00

BOE Ex. 1002, p. 200
BOE v. Paneltouch
IPR2025-01245

		and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	DERWENT; IBM_TDB			
S505	0	"8,125,466".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:00
S506	0	"6,814,452".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:00
S507	0	"6,562,718".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:00
S508	0	"8,228,453".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2015/05/03 22:00

BOE Ex. 1002, p. 201
BOE v. Paneltouch
IPR2025-01245

		emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	EPO; JPO; DERWENT; IBM_TDB			
S509	0	"6,814,452".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:00
S510	0	"7,906,216".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:01
S511	0	"7,535,462".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:01
S512	0	"7,593,004".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or	US-PGPUB; USPAT; USOCR;	OR	OFF	2015/05/03 22:01

BOE Ex. 1002, p. 202
BOE v. Paneltouch
IPR2025-01245

		film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	FPRS; EPO; JPO; DERWENT; IBM_TDB			

5/3/2015 10:13:16 PM
C:\Users\pdharia\Documents\EAST\Workspaces\14451769 05-02-2015.wsp

BOE Ex. 1002, p. 203
BOE v. Paneltouch
IPR2025-01245

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14451769	OOKAWARA ET AL.
	Examiner	**Art Unit**
	PRABODH M DHARIA	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	05/03/2015								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								

BOE Ex. 1002, p. 204
BOE v. Paneltouch
IPR2025-01245

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	Takeshi Ookawara	Confirmation No.:	2038
Application No.:	14/451,769	Examiner:	DHARIA, PRABODH M
Filed:	August 5, 2014	Group Art Unit:	2629

For: Display Device with Touch Panel

Commissioner for Patents
Alexandria, VA 22313-1450

RESPONSE UNDER 37 C.F.R. § 1.111

Dear Sir:

In response to the Office Action dated May 6, 2015, please amend this application as follows.

REMARKS 2

BOE Ex. 1002, p. 205
BOE v. Paneltouch
IPR2025-01245

REMARKS

By this amendment, claims 1-9 are pending. No claim is currently amended, and no claim is newly presented. Thus, no new matter is introduced.

The Office Action mailed May 6, 2015, rejected claims 1-9 on the ground of nonstatutory double patenting over claims 1-15 of U.S. Patent No. 8,803,836 B2.

With respect to the priority, the Office asserts that Applicants have failed to recite status (abandoned, patented or co-pending) of the patent application No. 13, 966,857 (Page 2 item 3 of the Office Action). As stated in Application Data Sheet filed on August 5, 2014, the patent application No. 13, 966,857 was pending at the time of the filing date of the current application (now patented as U.S. Patent No. 8,803,836). Thus, the status of the patent application No. 13, 966,857 was correctly recited in the Application Data Sheet.

In order to expedite the prosecution, Applicants respectfully file a terminal disclaimer herewith.

Thus, the present application overcomes the rejections of record and is in condition for allowance. Favorable consideration is respectfully requested.

To the extent necessary, a petition for an extension of time under 37 C.F.R. § 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,
Lowe Hauptman & Ham, LLP

/Arimi Yamada/

Arimi Yamada
Registration No. 70,156

BOE Ex. 1002, p. 206
BOE v. Paneltouch
IPR2025-01245

Customer No.: 127271
2318 MILL ROAD, SUITE 1400
ALEXANDRIA, VIRGINIA 22314
(703) 684-1111
(703) 518-5499 FACSIMILE
Dated: August 4, 2015
ARY/ mha

BOE Ex. 1002, p. 207
BOE v. Paneltouch
IPR2025-01245

Electronic Patent Application Fee Transmittal

Application Number:	14451769
Filing Date:	05-Aug-2014
Title of Invention:	Display Device with Touch Panel
First Named Inventor/Applicant Name:	Takeshi Ookawara
Filer:	Arimi Yamada/Sunny HAN
Attorney Docket Number:	1497.50463CC2

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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:				
Extension-of-Time:				

BOE Ex. 1002, p. 208
BOE v. Paneltouch
IPR2025-01245

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Statutory or Terminal Disclaimer	1814	1	160	160
		Total in USD ($)		**160**

Electronic Acknowledgement Receipt

EFS ID:	23113567
Application Number:	14451769
International Application Number:	
Confirmation Number:	2038
Title of Invention:	Display Device with Touch Panel
First Named Inventor/Applicant Name:	Takeshi Ookawara
Customer Number:	127271
Filer:	Arimi Yamada/Sunny HAN
Filer Authorized By:	Arimi Yamada
Attorney Docket Number:	1497.50463CC2
Receipt Date:	04-AUG-2015
Filing Date:	05-AUG-2014
Time Stamp:	17:31:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$160
RAM confirmation Number	4051
Deposit Account	071337
Authorized User	YAMADA, ARIMI
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees) Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)	

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees) Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees) Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer Filed	1497-50463CC2_TerminalDisclaimer_cu.pdf	114191 5cadb68cfea75db7737c7068a0fb08edfe85e2fd	no	2
Warnings:					
Information:					
2		1497-50463CC2ResponseNonFOAmailed2015-05-06.pdf	29837 dd183e9c74a5df26f97769844bfa688859b58a0a	yes	3
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
	Applicant Arguments/Remarks Made in an Amendment		2	3	
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30303 e7b31bf483ac9ba73926f12890a9df2dad113820	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	174331		

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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.

PTO/AIA/26 (04-14)
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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) 1497.50463CC2

In re Application of: Takeshi Ookawara et al.

Application No.: 14/451,769

Filed: August 5, 2014

For: Display Device with Touch Panel

The applicant, _____, owner of ____100____ percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of **prior patent** No. 8,803,836 B2 as the term of said **prior patent** is presently shortened by any terminal disclaimer. The applicant hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the applicant does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:

expires for failure to pay a maintenance fee;
is held unenforceable;
is found invalid by a court of competent jurisdiction;
is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
has all claims canceled by a reexamination certificate;
is reissued; or
is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. ☐ The undersigned is the applicant. If the applicant is an assignee, the undersigned is authorized to act on behalf of the assignee.

I hereby acknowledge that any willful false statements made are punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

2. ☑ The undersigned is an attorney or agent of record. Reg. No. 70156

/Arimi Yamada/	2015-08-04
Signature	Date
Arimi Yamada	
Typed or printed name	
Registered Attorney	703-535-7073
Title	Telephone Number

☑ Terminal disclaimer fee under 37 CFR 1.20(d) included.

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This collection of information is required by 37 CFR 1.321. 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.**

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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:

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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.

Application Number	Application/Control No.	Applicant(s)/Patent under Reexamination	
	14/451,769	OOKAWARA ET AL.	

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Date Filed : 8/4/15	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:

Td disapproved.

Td is missing the applicant name.

Also resubmit Td with these papers, NO Fee is required.

Lawana Hixon

U.S. Patent and Trademark Office

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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) 1497.50463CC2

In re Application of: Takeshi Ookawara et al.

Application No.: 14/451,769

Filed: August 5, 2014

For: Display Device with Touch Panel

Japan Display Inc.

The applicant, PANASONIC LIQUID CRYSTAL DISPLAY CO., LTD., owner of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of **prior patent** No. 8,803,836 B2 as the term of said **prior patent** is presently shortened by any terminal disclaimer. The applicant hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

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expires for failure to pay a maintenance fee;
is held unenforceable;
is found invalid by a court of competent jurisdiction;
is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
has all claims canceled by a reexamination certificate;
is reissued; or
is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. ☐ The undersigned is the applicant. If the applicant is an assignee, the undersigned is authorized to act on behalf of the assignee.

I hereby acknowledge that any willful false statements made are punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

2. ☑ The undersigned is an attorney or agent of record. Reg. No. 70156

/Arimi Yamada/ — Signature
2015-09-04 — Date

Arimi Yamada — Typed or printed name

Registered Attorney — Title
703-535-7073 — Telephone Number

☑ Terminal disclaimer fee under 37 CFR 1.20(d) included.

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

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:	23405683
Application Number:	14451769
International Application Number:	
Confirmation Number:	2038
Title of Invention:	Display Device with Touch Panel
First Named Inventor/Applicant Name:	Takeshi Ookawara
Customer Number:	127271
Filer:	Arimi Yamada
Filer Authorized By:	
Attorney Docket Number:	1497.50463CC2
Receipt Date:	04-SEP-2015
Filing Date:	05-AUG-2014
Time Stamp:	10:54:27
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	Terminal Disclaimer Filed	1497-50463CC2_TerminalDisclaimer_cu.pdf	171973 5b857474defc1b1a09e31d5424d98ff82aa9cac03	no	2

Warnings:	
Information:	

Total Files Size (in bytes):	171973

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.

Application Number	Application/Control No.	Applicant(s)/Patent under Reexamination	
	14/451,769	OOKAWARA ET AL.	

Document Code - DISQ	Internal Document – DO NOT MAIL

TERMINAL DISCLAIMER	☒ APPROVED	☐ DISAPPROVED
Date Filed : 9/4/15	**This patent is subject to a Terminal Disclaimer**	

Approved/Disapproved by:

jean proctor

U.S. Patent and Trademark Office

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

127271 7590 09/28/2015

Lowe Hauptman & Ham, LLP
2318 Mill Road
Suite 1400
Alexandria, VA 22314

EXAMINER
DHARIA, PRABODH M

ART UNIT	PAPER NUMBER
2693	

DATE MAILED: 09/28/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/451,769	08/05/2014	Takeshi Ookawara	1497.50463CC2	2038

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	12/28/2015

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.

BOE Ex. 1002, p. 221
BOE v. Paneltouch
IPR2025-01245

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)

127271 7590 09/28/2015
Lowe Hauptman & Ham, LLP
2318 Mill Road
Suite 1400
Alexandria, VA 22314

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.
14/451,769	08/05/2014	Takeshi Ookawara	1497.50463CC2	2038

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	12/28/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
DHARIA, PRABODH M	2693	345-174000

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,
(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.
1 _____
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 — 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.
- ❑ Applicant asserting small entity status. See 37 CFR 1.27 — 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.
- ❑ Applicant changing to regular undiscounted fee 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. _____

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

BOE Ex. 1002, p. 222
BOE v. Paneltouch
IPR2025-01245

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.
14/451,769	08/05/2014	Takeshi Ookawara	1497.50463CC2	2038

127271 7590 09/28/2015

Lowe Hauptman & Ham, LLP
2318 Mill Road
Suite 1400
Alexandria, VA 22314

EXAMINER	
DHARIA, PRABODH M	

ART UNIT	PAPER NUMBER
2693	

DATE MAILED: 09/28/2015

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

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

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.

BOE Ex. 1002, p. 223
BOE v. Paneltouch
IPR2025-01245

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. 14/451,769	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 *08-04-2015*.
   ☐ 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 *1-9*. 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 *09-04-2015* .
5. ☐ Examiner's Amendment/Comment
6. ☒ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/PRABODH M DHARIA/
Primary Examiner, Art Unit 2693

BOE Ex. 1002, p. 225
BOE v. Paneltouch
IPR2025-01245

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

2. St**atus:** please all the replies and correspondence should be addressed to examiner's new art unit 2693. Receipt is acknowledged of papers submitted on 08-05-2015 under request for reconsideration has been placed of record in the file. The terminal disclaimer resubmitted on 08-05-2015 and 09-04-2015 disclaiming the terminal portion of any patent granted on this application has been reviewed and is accepted. Claims 1-9 are pending in this office action.

Interview Summary

3. Examiner called applicant's representative and mentioned to applicant's representative, the terminal disclaimer filed on 08-05-2015 has been disqualified because the termial disclaimer missing applicant's name. Examiner requested to refile terminal disclaimer with applicant's name inserted in the terminal disclaimer by USPTO or Examiner is willing to mail an office action with double patent reiection. Applicant's representative agreed to refile e-terminal disclaimer to expedite instatnt application to allowance; and did refile e-terminal disclaimer on 09-04-2015 as well as terminal disclaimer was approved by USPTO para legal staff on 09-14-2015. Examiner thanks applicant's representative for filing e-terminal disclaimer as required by USPTO to move instant application forward and achieve compact prosecution.

4. A timely filed on 08-05-2015 and 09-04-2015 terminal disclaimer in compliance with 37 CFR 1.321(c) has overcome an actual rejection based on a nonstatutory double patenting ground and signed by the agent to fully comply with 37 CFR 3.73(b). Terminal disclaimer was approved and accepted by USPTO on 09-14-2015.

Response to Amendment

5. The amendment filed 08-05-2015 does not introduce any new matter into the disclosure. The added material is supported by the original disclosure. Applicant has timely filed on 08-05-2015 and 09-04-2015 terminal disclaimer in compliance with 37 CFR 1.321(c) has overcome an actual rejection based on a nonstatutory double patenting ground and signed by the agent to fully comply with 37 CFR 3.73(b).

Applicant's arguments regarding priority objection is persuasive and therefore objection to priority is withdrawn.

6. Applicant arguments filed on 08-05-2015, under remark regarding allowable limitations "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 emitting display panel under the touch panel; and a circular polarizing plate arranged at a side of the touch panel opposite to the organic emitting display panel; wherein the organic emitting display panel, the touch panel, and the circular polarizing plate are arranged in this order" are persuasive; as after further extensive search and consideration, independent claim 1 does overcome the cited prior art of 892's, 1449's;

the searched prior arts in PGPUB and NPL; which puts application number 14451769 in condition for allowance.

Allowable Subject Matter

7. Claims 1-9 are allowed.

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

Applicant has timely filed on 08-05-2015 terminal disclaimer in compliance with 37 CFR 1.321(c) has overcome an actual rejection based on a nonstatutory double patenting ground and signed by the agent to fully comply with 37 CFR 3.73(b). Applicant's arguments regarding priority objection is persuasive and therefore objection to priority is withdrawn. Applicant's arguments filed on 08-05-2015 are convincing and persuasive, as argued by applicant in remarks under claim rejection, page 2, paragraphs 3-5; the cited prior art of 892's, 1449's; the searched prior arts in PGPUB and NPL fails to recite or disclose all the other limitations of the independent claims in combination with the uniquely distinct features of underlined; bold independent claims limitations recited below:

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 emitting display panel under the touch panel; and a circular polarizing plate arranged at a side of the touch panel opposite to the organic emitting

display panel; wherein the organic emitting display panel, the touch panel, and the circular polarizing plate are arranged in this order.

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

9. 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.

10. 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.

11. 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

/Prabodh M Dharia/

Primary Examiner,

Art Unit 2629

September 21, 2015

BOE Ex. 1002, p. 230
BOE v. Paneltouch
IPR2025-01245

Examiner-Initiated Interview Summary	Application No.	Applicant(s)	
	14/451,769	OOKAWARA ET AL.	
	Examiner	Art Unit	
	PRABODH M. DHARIA	2693	

All participants (applicant, applicant's representative, PTO personnel):

(1) *PRABODH M. DHARIA*. (3)_____.

(2) *Arimi Yamada* . (4)_____.

Date of Interview: *04 September 2015*.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☒ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: *None*.

Issues Discussed ☐101 ☐112 ☐102 ☐103 ☒Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: *1-9*.

Identification of prior art discussed: *U.S. Patent No. 8,803,836*.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Examiner called applicant's representative and mentioned to applicant's representative, the terminal disclaimer filed on 08-05-2015 has been disqualified because the termial disclaimer missing applicant's name. Examiner requested to refile terminal disclaimer with applicant's name inserted in the terminal disclaimer by USPTO or Examiner is willing to mail an office action with double patent reiection. Applicant's representative agreed to refile e-terminal disclaimer to expedite instatnt application to allowance; and did refile e-terminal disclaimer on 09-04-2015 as well as terminal disclaimer was approved by USPTO para legal staff on 09-14-2015. Examiner thanks applicant's representative for filing e-terminal disclaimer as required by USPTO to move instant application forward and achieve compact prosecution..

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/PRABODH M DHARIA/ Primary Examiner, Art Unit 2693	

BOE Ex. 1002, p. 231
BOE v. Paneltouch
IPR2025-01245

Notice of References Cited	Application/Control No. 14/451,769	Applicant(s)/Patent Under Reexamination OOKAWARA ET AL.	
	Examiner PRABODH M. DHARIA	Art Unit 2693	Page 1 of 1

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2009/0096764 A1	04-2009	YOU; Bong-hyun	G06F3/045	345/174
*	B	US-7,868,957 B2	01-2011	Yamazaki; Shunpei	H01L21/28008	349/43
*	C	US-8,228,453 B2	07-2012	Yamazaki; Shunpei	H01L21/28008	349/43
*	D	US-2008/0122804 A1	05-2008	KINOSHITA; Masayoshi	G06F1/3203	345/175
*	E	US-2006/0033016 A1	02-2006	Ogawa; Takashi	G06F3/042	250/221
*	F	US-8,890,833 B2	11-2014	You; Bong-hyun	G06F3/0412	345/174
	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	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*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.

BOE Ex. 1002, p. 232
BOE v. Paneltouch
IPR2025-01245

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4 and touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1 and touch$3 same panel$1 same under same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3 and touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same opposite and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and outside$1 same area$1 same external same terminal$1 and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same outside$1 same touch$3 same detect$3 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:27
		Ookawara same Takeshi and Matsudate same Noriharu	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:29

BOE Ex. 1002, p. 233
BOE v. Paneltouch
IPR2025-01245

		touch$3 same panel$1 same under same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3 and	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:45
L1	8	"2002342014"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:06
L2	1	"342014" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:06
L3	0	"2002342014" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:06
L4	0	"20090128518" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:17
L5	0	"20090086318" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:17

BOE Ex. 1002, p. 234
BOE v. Paneltouch
IPR2025-01245

		or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1				
L6	0	"20020047969" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:17
L7	0	"20090143141" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:17
L8	0	"20090046077" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:17
L9	0	"20050139398" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:17
L10	0	"20090096763" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:17

BOE Ex. 1002, p. 235
BOE v. Paneltouch
IPR2025-01245

		(matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1				
L11	0	"20100033443" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:17
L12	0	"20060274047" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:17
L13	0	"20010043291" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:17
L14	0	"20100085322" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:19
L15	0	"20050046622" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2015/09/20 14:19

BOE Ex. 1002, p. 236
BOE v. Paneltouch
IPR2025-01245

		round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	EPO; JPO; DERWENT; IBM_TDB			
L16	0	"20030090803" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:19
L17	0	"20110069036" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:19
L18	0	"20100085326" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:19
L19	0	"20080030483" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:19
L20	0	"20050190338" and touch$3 same	US-PGPUB;	OR	OFF	2015/09/20

BOE Ex. 1002, p. 237
BOE v. Paneltouch
IPR2025-01245

		panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			14:19
L21	0	"20060274049" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:19
L22	0	"20090167721" and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:19
L23	0	"6,814,452".pn. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:21
L24	0	"8,125,466".pn. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:21

BOE Ex. 1002, p. 238
BOE v. Paneltouch
IPR2025-01245

		coordinate$1				
L25	0	"6,078,274".pn. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:22
L26	0	"6,814,452".pn. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:22
L27	0	"8,072,436".pn. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:22
L28	0	"7,868,957".pn. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:22
L29	0	"8,228,453".pn. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:22

BOE Ex. 1002, p. 239
BOE v. Paneltouch
IPR2025-01245

		detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1				
L30	0	"6,552,718".pn. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:22
L31	0	"7,535,462".pn. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:22
L32	0	"7,593,004".pn. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:22
L33	0	"7,906,216".pn. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:22
S1	174962	touch$3 same panel$1 same display$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/09/19 16:24

BOE Ex. 1002, p. 240
BOE v. Paneltouch
IPR2025-01245

			IBM_TDB			
S2	829	touch$3 same panel$1 same display$3 and touch$3 same detect$4 same line$1 same matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:25
S3	111	touch$3 same panel$1 same display$3 and touch$3 same detect$4 same line$1 same matrix same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:27
S4	6	touch$3 same panel$1 same display$3 and touch$3 same detect$4 same line$1 same matrix same coordinate$1 and (OLED or (organic same light$4 same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:27
S5	0	touch$3 same panel$1 same display$3 and touch$3 same detect$4 same line$1 same matrix same coordinate$1 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:28
S6	715	touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:29
S8	8	touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:30
S9	0	touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:30
S10	0	touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix and determin$4 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:31
S11	2	touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2015/09/19 16:31

BOE Ex. 1002, p. 241
BOE v. Paneltouch
IPR2025-01245

		plate$1 and touch$3 same detect$4 same line$1 same matrix and coordinate$1	EPO; JPO; DERWENT; IBM_TDB			
S12	5	"14451769"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:33
S13	1	"14451769" and touch$3 same panel$1 same display$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:33
S14	0	"14451769" and touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:33
S15	1	"14451769" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:34
S16	1	"14451769" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:34
S17	0	"14451769" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:34
S18	1	"14451769" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:34
S19	1	"14451769" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 and substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:34
S20	1	"14451769" and touch$3 same panel$1 same display$3 and (OLED or	US-PGPUB; USPAT;	OR	OFF	2015/09/19 16:35

BOE Ex. 1002, p. 242
BOE v. Paneltouch
IPR2025-01245

		(organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 and substrate$1 same detect$4 same area$1	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S21	1	"14451769" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:36
S22	1	"14451769" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:36
S23	1	touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:36
S24	717	touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:37
S25	98	touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:37
S26	1	touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:38
S27	2	touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:38

BOE Ex. 1002, p. 243
BOE v. Paneltouch
IPR2025-01245

S28	1	touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:39
S29	1	touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:41
S30	1395367	touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 arrang$3 same opposite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:43
S31	2	touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same opposite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:43
S32	2	touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:44
S33	2	touch$3 same panel$1 same under same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:45
S34	0	touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix and substrate$1 same tocuh$3 same detect$4 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:49
S36	6	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix and substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:50

BOE Ex. 1002, p. 244
BOE v. Paneltouch
IPR2025-01245

S37	0	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix and substrate$1 same tocuh$3 same detect$4 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:50
S38	0	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 same matrix and substrate$1 same tocuh$3 same detect$4 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:51
S39	0	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 same matrix same substrate$1 and tocuh$3 same detect$4 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:51
S40	2	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix and substrate$1 same touch$3 same detect$4 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:51
S41	0	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:52
S42	1	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:54
S44	0	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and ouside$1 same area$1 same external same terminal$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 16:59
S45	1	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/09/19 17:00

BOE Ex. 1002, p. 245
BOE v. Paneltouch
IPR2025-01245

		and detect$3 same touch$3 same coordinate$1 and outside$1 same area$1 same external same terminal$1	IBM_TDB			
S47	4	touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 17:10
S48	1	touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same outside$1 same touch$3 same detect$3 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/19 17:11
S62	1	"14451769" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4 and metal$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 09:55
S63	1	"14451769" and metal$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 09:55
S64	1	"14451769" and metal$4 and black	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 09:56
S65	1	"14451769" and metal$4 and black and wir$4 same group$1 same bond$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 09:57
S66	1	"14451769" and metal$4 and black and wir$4 same group$1 same bond$4 and transparent same conduct$4 same film$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 09:58

BOE Ex. 1002, p. 246
BOE v. Paneltouch
IPR2025-01245

S67	1	"14451769" and metal$4 and black and wir$4 same group$1 same bond$4 and transparent same conduct$4 same film$3 same connect$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 09:59
S68	1	"14451769" and metal$4 and black and wir$4 same group$1 same bond$4 and transparent same conduct$4 same film$3 same connect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 09:59
S69	1	"14451769" and metal$4 and black and wir$4 same group$1 same bond$4 and transparent same conduct$4 same film$3 same connect$4 same line$1 and resistance$4 same film$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 10:00
S70	1	"14451769" and metal$4 and black and wir$4 same group$1 same bond$4 and transparent same conduct$4 same film$3 same connect$4 same line$1 and resistance$4 same film$4 and adhesive$3 same layer$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 10:00
S71	1	"14451769" and metal$4 and black and wir$4 same group$1 same bond$4 and transparent same conduct$4 same film$3 same connect$4 same line$1 and resistance$4 same film$4 and adhesive$3 same layer$3 and wir$4 and group$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 10:02
S72	1	"14451769" and metal$4 and black and wir$4 same group$1 same bond$4 and transparent same conduct$4 same film$3 and connect$4 same line$1 and resistance$4 same film$4 and adhesive$3 same layer$3 and wir$4 and group$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 10:03
S73	0	"14451769" and cricular	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 11:02
S74	0	"14451769" and cric$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 11:03
S75	1	"14451769" and circ$6	US-PGPUB; USPAT; USOCR;	OR	OFF	2015/09/20 11:03

BOE Ex. 1002, p. 247
BOE v. Paneltouch
IPR2025-01245

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S76	2	touch$3 same panel$1 same display$3 and touch$3 same detect$4 same line$1 same matrix same coordinate$1 and (OED or (organic same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 11:31
S77	3	touch$3 same panel$1 same display$3 and touch$3 same detect$4 same line$1 same (matrix or travers$4) same coordinate$1 and (OED or (organic same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 11:32
S78	7	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same (matrix or travers$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 11:34
S79	8	touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same (matrix or travers$4) and substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 11:36
S80	17	touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 11:39
S81	1284406	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 11:57
S119	34	Ookawara same Takeshi and Matsudate same Noriharu	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:29
S120	1	touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:30

BOE Ex. 1002, p. 248
BOE v. Paneltouch
IPR2025-01245

		same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)				
S121	1	Ookawara same Takeshi and Matsudate same Noriharu and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:31
S122	1	Ookawara same Takeshi and Matsudate same Noriharu and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:31
S123	52	Ookawara same Takeshi	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:32
S124	133	Matsudate same Noriharu	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:32
S125	52	Ookawara same Takeshi	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:32
S126	3	Ookawara same Takeshi and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:32
S127	3	Ookawara same Takeshi and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:33

BOE Ex. 1002, p. 249
BOE v. Paneltouch
IPR2025-01245

S128	1	Matsudate same Noriharu and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:33
S129	1	Matsudate same Noriharu and touch$3 same panel$1 and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:33
S130	1	Ookawara same Takeshi and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:33
S131	1	Ookawara same Takeshi and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:34
S132	1	Ookawara same Takeshi and Matsudate same Noriharu and touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:35
S133	1	Ookawara same Takeshi and touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:35
S134	1	Matsudate same Noriharu and touch$3 same panel$1 same (OLED or (organic same emit$4 same	US-PGPUB; USPAT; USOCR;	OR	OFF	2015/09/20 12:35

BOE Ex. 1002, p. 250
BOE v. Paneltouch
IPR2025-01245

		display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S135	1	Ookawara same Takeshi and touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:35
S136	1	Ookawara same Takeshi and Matsudate same Noriharu and touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:39
S137	1	Ookawara same Takeshi and touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:39
S138	1	Matsudate same Noriharu and touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:39
S139	1	Ookawara same Takeshi and touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:39
S140	1	Ookawara same Takeshi and Matsudate same Noriharu and touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/09/20 12:39

BOE Ex. 1002, p. 251
BOE v. Paneltouch
IPR2025-01245

		substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1	IBM_TDB			
S141	1	Ookawara same Takeshi and touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:39
S142	1	Matsudate same Noriharu and touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:39
S143	1	Ookawara same Takeshi and touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:40
S144	1	Ookawara same Takeshi and Matsudate same Noriharu and touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:40
S145	1	Ookawara same Takeshi and touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:40
S146	1	Matsudate same Noriharu and touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same coordinate$1 and	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:40

BOE Ex. 1002, p. 252
BOE v. Paneltouch
IPR2025-01245

		(first same second) same touch$3 same detect$4 same line$1				
S147	1	Ookawara same Takeshi and touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:40
S148	1	Ookawara same Takeshi and Matsudate same Noriharu and touch$3 same panel$1 same under same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:40
S149	1	Ookawara same Takeshi and touch$3 same panel$1 same under same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:40
S150	1	Matsudate same Noriharu and touch$3 same panel$1 same under same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:40
S151	1	Ookawara same Takeshi and touch$3 same panel$1 same under same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:40
S178	1	Ookawara same Takeshi and Matsudate same Noriharu and touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same opposite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:47
S179	1	Ookawara same Takeshi and touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same opposite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:47
S180	1	Matsudate same Noriharu and touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same opposite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:47
S181	1	Ookawara same Takeshi and touch$3	US-PGPUB;	OR	OFF	2015/09/20

BOE Ex. 1002, p. 253
BOE v. Paneltouch
IPR2025-01245

		same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same opposite	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			12:47
S182	1	Ookawara same Takeshi and Matsudate same Noriharu and touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:48
S183	1	Ookawara same Takeshi and touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:48
S184	1	Matsudate same Noriharu and touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:48
S185	1	Ookawara same Takeshi and touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:48
S186	1	Ookawara same Takeshi and Matsudate same Noriharu and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:48
S187	1	Ookawara same Takeshi and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:48
S188	1	Matsudate same Noriharu and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/09/20 12:48

BOE Ex. 1002, p. 254
BOE v. Paneltouch
IPR2025-01245

		(matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1	IBM_TDB			
S189	1	Ookawara same Takeshi and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:48
S190	1	Ookawara same Takeshi and Matsudate same Noriharu and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and outside$1 same area$1 same external same terminal$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:48
S191	1	Ookawara same Takeshi and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and outside$1 same area$1 same external same terminal$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:48
S192	1	Matsudate same Noriharu and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and outside$1 same area$1 same external same terminal$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:48
S193	1	Ookawara same Takeshi and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and outside$1 same area$1 same external same terminal$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:48
S194	1	Ookawara same Takeshi and Matsudate same Noriharu and touch$3 same panel$1 and (OED or	US-PGPUB; USPAT; USOCR;	OR	OFF	2015/09/20 12:48

BOE Ex. 1002, p. 255
BOE v. Paneltouch
IPR2025-01245

		(organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same outside$1 same touch$3 same detect$3 same area$1	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S195	1	Ookawara same Takeshi and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same outside$1 same touch$3 same detect$3 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:48
S196	1	Matsudate same Noriharu and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same outside$1 same touch$3 same detect$3 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:48
S197	1	Ookawara same Takeshi and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same outside$1 same touch$3 same detect$3 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 12:48
S218	54205	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:00
S219	650	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and touch$3 same detect$4 same line$1 same matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:00
S220	88	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and touch$3 same detect$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2015/09/20 13:00

BOE Ex. 1002, p. 256
BOE v. Paneltouch
IPR2025-01245

		same line$1 same matrix same coordinate$1	DERWENT; IBM_TDB			
S221	5	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and touch$3 same detect$4 same line$1 same matrix same coordinate$1 and (OLED or (organic same light$4 same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:00
S222	190	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:00
S223	23	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:00
S224	6	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:00
S225	1	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix and coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:00
S226	1395362	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 arrang$3 same opposite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:02
S227	1	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/09/20 13:02

BOE Ex. 1002, p. 257
BOE v. Paneltouch
IPR2025-01245

		circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	IBM_TDB			
S228	192	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:02
S229	1	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:02
S230	58	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:02
S231	2	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:02
S232	1	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:02
S233	2	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same opposite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:05

BOE Ex. 1002, p. 258
BOE v. Paneltouch
IPR2025-01245

S234	2	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same under same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:05
S235	2	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:05
S236	6	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix and substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:05
S237	5	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix and substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:05
S238	2	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix and substrate$1 same touch$3 same detect$4 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:05
S239	1	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:05
S240	9	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or	US-PGPUB; USPAT;	OR	OFF	2015/09/20 13:05

BOE Ex. 1002, p. 259
BOE v. Paneltouch
IPR2025-01245

		349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S241	1	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and outside$1 same area$1 same external same terminal$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:05
S242	4	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:05
S243	1	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same outside$1 same touch$3 same detect$3 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:05
S244	2	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and touch$3 same detect$4 same line$1 same matrix same coordinate$1 and (OED or (organic same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:05
S245	3	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and touch$3 same detect$4 same line$1 same (matrix or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/09/20 13:05

BOE Ex. 1002, p. 260
BOE v. Paneltouch
IPR2025-01245

		travers$4) same coordinate$1 and (OED or (organic same emit$4 same display$3))	IBM_TDB			
S246	6	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same (matrix or travers$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:05
S247	6	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same (matrix or travers$4) and substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:05
S248	17	(G06F3/$.cpc. or 345/$.ccls. or 361/$.ccls. or 382/$.ccls. or 349/$.ccls. or 313/$.ccls.) and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:05
S249	111	touch$3 same panel$1 same display$3 and touch$3 same detect$4 same line$1 same matrix same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:10
S250	6	touch$3 same panel$1 same display$3 and touch$3 same detect$4 same line$1 same matrix same coordinate$1 and (OLED or (organic same light$4 same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:10
S251	26	touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:11
S252	8	touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2015/09/20 13:11

BOE Ex. 1002, p. 261
BOE v. Paneltouch
IPR2025-01245

			IBM_TDB			
S253	2	touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix and coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:11
S254	1	touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:11
S255	98	touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:11
S256	1	touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:11
S257	2	touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:11
S258	1	touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:12
S259	1	touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:12
S260	2	touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2015/09/20 13:12

BOE Ex. 1002, p. 262
BOE v. Paneltouch
IPR2025-01245

		arrang$3 same opposite	EPO; JPO; DERWENT; IBM_TDB			
S261	2	touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:12
S262	2	touch$3 same panel$1 same under same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:12
S263	2	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix and substrate$1 same touch$3 same detect$4 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:12
S264	8	touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix and substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:13
S265	2	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix and substrate$1 same touch$3 same detect$4 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:14
S266	2	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix and substrate$1 same touch$3 same detect$4 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:14
S267	1	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:14
S268	9	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:15

BOE Ex. 1002, p. 263
BOE v. Paneltouch
IPR2025-01245

		coordinate$1				
S269	1	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and outside$1 same area$1 same external same terminal$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:15
S270	4	touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:15
S271	1	touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same outside$1 same touch$3 same detect$3 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:16
S272	2	touch$3 same panel$1 same display$3 and touch$3 same detect$4 same line$1 same matrix same coordinate$1 and (OED or (organic same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:16
S273	3	touch$3 same panel$1 same display$3 and touch$3 same detect$4 same line$1 same (matrix or travers$4) same coordinate$1 and (OED or (organic same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:16
S274	3	touch$3 same panel$1 same display$3 and touch$3 same detect$4 same line$1 same (matrix or travers$4) same coordinate$1 and (OED or (organic same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:17
S275	3	touch$3 same panel$1 same display$3 and touch$3 same detect$4 same line$1 same (matrix or travers$4) same coordinate$1 and (OED or (organic same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:17
S276	7	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4	US-PGPUB; USPAT;	OR	ON	2015/09/20 13:17

BOE Ex. 1002, p. 264
BOE v. Paneltouch
IPR2025-01245

		same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same (matrix or travers$4)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S277	8	touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same (matrix or travers$4) and substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/09/20 13:18
S278	17	touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:18
S279	17	S278 AND ((G06F3/0412 OR G06F3/044 OR G06F3/0416 OR G06F3/0418 OR G06F3/042 OR G06F1/3203 OR G06F1/3262 OR G06F2203/04112 OR G06F3/045 OR G06F2203/04806 OR G06F3/047 OR G06F3/04883).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:19
S280	17	S278 AND ((G06F3/0412 OR G06F3/044 OR G06F3/0416 OR G06F3/0418 OR G06F3/042 OR G06F1/3203 OR G06F1/3262 OR G06F2203/04112 OR G06F3/045 OR G06F2203/04806 OR G06F3/047 OR G06F3/04883 OR G02F1/13338 OR G02F1/1368).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:19
S281	17	S278 AND ((G06F3/0412 OR G06F3/044 OR G06F3/0416 OR G06F3/0418 OR G06F3/042 OR G06F1/3203 OR G06F1/3262 OR G06F2203/04112 OR G06F3/045 OR G06F2203/04806 OR G06F3/047 OR G06F3/04883 OR G02F1/13338 OR G02F1/1368 OR G09G2300/0426 OR G09G2300/0443 OR G09G3/3648).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:19
S282	5	S277 AND ((G06F2203/04103 OR G06F3/0412 OR G06F3/044 OR G06F2203/04102 OR G06F3/041 OR G09G3/36).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:20
S283	4	S276 AND ((G06F2203/04103 OR G06F3/0412 OR G06F3/044 OR G06F2203/04102 OR G06F3/041 OR G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:20
S284	3	S275 AND ((G06F3/045 OR G06F3/0412 OR G06F3/047).CPC.)	US-PGPUB; USPAT;	OR	OFF	2015/09/20 13:20

BOE Ex. 1002, p. 265
BOE v. Paneltouch
IPR2025-01245

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S285	3	S274 AND ((G06F3/045 OR G06F3/0412 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:20
S286	3	S273 AND ((G06F3/045 OR G06F3/0412 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:20
S287	2	S272 AND ((G06F3/0412 OR G06F3/045).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:20
S288	1	S271 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:20
S289	4	S270 AND ((G06F2203/04112 OR G06F3/044 OR G06F3/0412 OR G06F3/042 OR G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:21
S290	1	S269 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:21
S291	9	S268 AND ((G06F3/044 OR G06F3/0412 OR G06F3/0416 OR G06F2203/04112 OR G06F3/0418 OR G06F3/045 OR G06F3/047 OR G09G2300/0426 OR G09G2300/0443 OR G09G3/3648).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:21
S292	1	S267 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:21

BOE Ex. 1002, p. 266
BOE v. Paneltouch
IPR2025-01245

S293	2	S266 AND ((H01L21/28008 OR H01L21/288 OR H01L21/76838 OR H01L27/1292 OR H01L29/66765 OR H01L29/78669 OR H01L29/78678).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:21
S294	2	S265 AND ((H01L21/28008 OR H01L21/288 OR H01L21/76838 OR H01L27/1292 OR H01L29/66765 OR H01L29/78669 OR H01L29/78678).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:21
S295	5	S264 AND ((G06F2203/04103 OR G06F3/0412 OR G06F3/044 OR G06F2203/04102 OR G06F3/041 OR G09G3/36).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:21
S296	2	S263 AND ((H01L21/28008 OR H01L21/288 OR H01L21/76838 OR H01L27/1292 OR H01L29/66765 OR H01L29/78669 OR H01L29/78678).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:21
S297	2	S262 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:22
S298	2	S261 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:22
S299	2	S260 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:22
S300	1	S259 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:22
S301	1	S258 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2015/09/20 13:22

BOE Ex. 1002, p. 267
BOE v. Paneltouch
IPR2025-01245

			DERWENT; IBM_TDB			
S302	2	S257 AND ((G06F3/0412 OR G06F3/0416 OR G06F3/044 OR G06F3/045 OR G06F3/047 OR G09G2300/0819 OR G09G2300/0852 OR G09G2300/0861 OR G09G2320/043 OR G09G3/3233).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:22
S303	1	S256 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:23
S304	41	S255 AND ((G06F3/044 OR G06F2203/04103 OR G06F3/0412 OR G06F3/041 OR G06F1/1643 OR G06F2203/04111 OR G06F3/045 OR G06F1/1652 OR G06F2203/04102 OR G06F3/0418 OR G06F3/043 OR G06F13/24 OR G06F1/1601 OR G06F1/1626 OR G06F1/1635 OR G06F1/1637 OR G06F1/1656 OR G06F1/1683 OR G06F1/26 OR G06F2203/04101 OR G06F2203/04104 OR G06F2203/04112 OR G06F3/0416 OR G06F3/042 OR G06F3/047 OR G06F3/14 OR G09G2300/023 OR G09G2300/0819 OR G09G2300/0852 OR G09G2300/0861 OR G09G2320/043 OR G09G2354/00 OR G09G3/3208 OR G09G3/3233 OR G09G5/00).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:23
S305	1	S254 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:23
S306	2	S253 AND ((G09G3/36).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:23
S307	5	S252 AND ((G06F2203/04103 OR G06F3/0412 OR G06F3/044 OR G06F2203/04102 OR G06F3/041 OR G09G3/36).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:23
S308	22	S251 AND ((G06F3/0412 OR G06F3/044 OR G06F2203/04103 OR G06F1/1643 OR G06F2203/04111 OR G06F2203/04102 OR G06F1/1616 OR G06F1/1626 OR G06F1/1652 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2015/09/20 13:23

BOE Ex. 1002, p. 268
BOE v. Paneltouch
IPR2025-01245

		G06F21/32 OR G06F21/83 OR G06F3/0421 OR G06F3/04886 OR G06F3/041 OR G06F2203/04112 OR G06F3/03 OR G06F3/0416 OR G06F3/0418 OR G09G2300/0426 OR G09G2300/0439 OR G09G2360/142 OR G09G3/20 OR G09G2320/0247 OR G09G2320/103 OR G09G3/36 OR G09G2300/08 OR G09G2300/0819 OR G09G2300/0852 OR G09G2300/0861 OR G09G2310/0221 OR G09G2320/043 OR G09G2330/021 OR G09G2340/0435 OR G09G2340/045 OR G09G2340/10 OR G09G2340/14 OR G09G2354/00 OR G09G2360/16 OR G09G3/3233 OR G09G3/3275 OR G09G3/3611 OR G09G3/3648 OR G09G5/00 OR G09G5/02 OR G09G5/373).CPC.)	DERWENT; IBM_TDB			
S309	5	S250 AND ((G06F3/0412 OR G06F3/044 OR G06F3/045 OR G06F3/0416 OR G06F3/0414 OR G06F3/0418 OR G09G2300/08 OR G09G5/003).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:24
S310	85	S249 AND ((G06F3/044 OR G06F3/0412 OR G06F3/041 OR G06F3/045 OR G06F3/0488 OR G06F3/0416 OR G06F3/04883 OR G06F3/0421 OR G06F2203/04808 OR G06F2203/04111 OR G06F3/0418 OR G06F2203/04109 OR G06F3/046 OR G06F2203/04104 OR G06F3/042 OR G06F3/0425 OR G06F17/50 OR G06F19/321 OR G06F2217/16 OR G06F2217/80 OR G06F3/03545 OR G06F3/0414 OR G06F11/1675 OR G06F2200/1614 OR G06F2200/1637 OR G06F2203/04103 OR G06F2203/04108 OR G06F3/016 OR G06F3/0202 OR G06F3/0237 OR G06F3/03 OR G06F3/038 OR G06F3/04886 OR G09G3/3648 OR G09G5/022 OR G09G5/36 OR G09G3/3655 OR G09G2300/0413 OR G09G2300/0434 OR G09G2300/08 OR G09G2310/08 OR G09G2320/0233 OR G09G3/3611 OR G09G3/3614 OR G09G3/3659 OR G09G3/3677 OR G09G3/3696 OR G09G5/001 OR G09G5/003 OR G09G5/12).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:24
S311	26	touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:26
S312	0	("2015/0261333").URPN.	USPAT	OR	OFF	2015/09/20 13:26
S313	0	(14/644814).APP.	USPAT;	OR	OFF	2015/09/20

BOE Ex. 1002, p. 269
BOE v. Paneltouch
IPR2025-01245

			USOCR			13:26
S314	0	("2015/0261259").URPN.	USPAT	OR	OFF	2015/09/20 13:26
S315	0	(14/629990).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:26
S316	0	("2015/0255518").URPN.	USPAT	OR	OFF	2015/09/20 13:26
S317	0	(14/639336).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:26
S318	0	("2015/0255015").URPN.	USPAT	OR	OFF	2015/09/20 13:26
S319	0	(14/433479).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:27
S320	0	("2015/0185915").URPN.	USPAT	OR	OFF	2015/09/20 13:27
S321	0	(14/548059).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:27
S322	0	("2015/0130751").URPN.	USPAT	OR	OFF	2015/09/20 13:27
S323	0	(14/405268).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:27
S324	0	("2015/0130745").URPN.	USPAT	OR	OFF	2015/09/20 13:27
S325	0	(14/229433).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:27
S326	0	("2015/0123926").URPN.	USPAT	OR	OFF	2015/09/20 13:27
S327	0	(14/592276).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:27
S328	0	("2015/0015532").URPN.	USPAT	OR	OFF	2015/09/20 13:27
S329	0	(14/102385).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:27
S330	0	("2014/0299879").URPN.	USPAT	OR	OFF	2015/09/20 13:27
S331	0	(14/284865).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:27
S332	0	("2014/0240362").URPN.	USPAT	OR	OFF	2015/09/20 13:27
S333	0	(14/192108).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:27
S334	0	("2014/0162057").URPN.	USPAT	OR	OFF	2015/09/20 13:28
S335	0	(14/175358).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:28
S336	0	("2014/0152533").URPN.	USPAT	OR	OFF	2015/09/20 13:28
S337	0	(14/090236).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:28
S338	0	("2014/0151686").URPN.	USPAT	OR	OFF	2015/09/20 13:28
S339	0	(14/090244).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:28
S340	0	("2014/0132870").URPN.	USPAT	OR	OFF	2015/09/20

BOE Ex. 1002, p. 270
BOE v. Paneltouch
IPR2025-01245

						13:28
S341	1	(14/078693).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:28
S342	2	("2013/0293096").URPN.	USPAT	OR	OFF	2015/09/20 13:28
S343	1	(13/888574).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:28
S344	0	("2013/0162549").URPN.	USPAT	OR	OFF	2015/09/20 13:28
S345	1	(13/463528).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:28
S346	1	("2011/0273397").URPN.	USPAT	OR	OFF	2015/09/20 13:29
S347	0	(13/039682).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:29
S348	11	("2010/0007632").URPN.	USPAT	OR	OFF	2015/09/20 13:29
S349	1	(12/495984).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:29
S350	48	("20020033923" | "20020093619" | "20080048966" | "20100060836" | "20110090183" | "20110090204" | "20110102696" | "20110115839" | "20110128461" | "20110134350" | "20110148826" | "20110148846" | "20110149185" | "20110157131" | "20110175833" | "20110175874" | "20110175894" | "20110175895" | "20110181560" | "20110193836" | "20110199404" | "20110205254" | "20110210957" | "20110216023" | "20110216043" | "20110216048" | "20110267297" | "20110267330" | "20110267331" | "20110267381" | "20110279356" | "20110279419" | "20110285372" | "20110285426" | "20120001874" | "20120001954" | "20120002127" | "20120032942" | "20120033151" | "20120038618" | "20120062811" | "20120273773" | "20120293202" | "20120293209" | "20120319107" | "20130134416" | "20130235689" | "6191833").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:29
S351	0	("9129568").URPN.	USPAT	OR	OFF	2015/09/20 13:29
S352	1	(14/078693).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:29
S353	12	("20050057708" | "20080062139" | "20090213096" | "20090322702" | "20100060602" | "20100149116" | "20100214266" | "20110043487" | "20110080355" | "20110242444" | "20110310056" | "20120062481").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:29
S354	0	("9046952").URPN.	USPAT	OR	OFF	2015/09/20 13:29
S355	1	(13/463528).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:29

BOE Ex. 1002, p. 271
BOE v. Paneltouch
IPR2025-01245

S356	1	(13/888574).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:30
S357	6	("20010008433" | "20040075779" | "20040239641" | "20120031746" | "20120306777" | "20130181910").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:30
S358	0	("8946985").URPN.	USPAT	OR	OFF	2015/09/20 13:30
S359	40	("20010031074" | "20020047550" | "20020074551" | "20040189567" | "20040217928" | "20040263069" | "20050219229" | "20060011913" | "20060151791" | "20070023754" | "20070108454" | "20070268389" | "20080114926" | "20080129653" | "20080211396" | "20080283837" | "20080284710" | "20080284768" | "20090040445" | "20090114926" | "20090128529" | "20090140270" | "6243069" | "6638781" | "6692984" | "6717359" | "6724012" | "6747290" | "6747638" | "6825492" | "7068254" | "7161185" | "7173281" | "7224391" | "7342256" | "7351605" | "7365750" | "7427223" | "7511323" | "8482484").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:30
S360	0	("8736587").URPN.	USPAT	OR	OFF	2015/09/20 13:30
S361	1	(12/495984).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:30
S362	23	("20030059987" | "20030083203" | "20040038138" | "20040113161" | "20050022374" | "20050250262" | "20060176413" | "20070222933" | "20080024701" | "20110095312" | "5132248" | "5427976" | "5706064" | "5757451" | "6180976" | "6387737" | "6630274" | "6952036" | "6994414" | "7022556" | "7528019" | "7821065" | "7868957").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:30
S363	2	("8228453").URPN.	USPAT	OR	OFF	2015/09/20 13:30
S364	1	(12/984627).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:30
S365	9	("20020180910" | "20030067448" | "20030067449" | "20040238726" | "20050184971" | "20060001655" | "20060044279" | "20060250373" | "20070002192").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:30
S366	2	("7948179").URPN.	USPAT	OR	OFF	2015/09/20 13:31
S367	1	(12/773262).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:31
S368	12	("20030059987" | "20030083203" | "20040038138" | "20040113161" | "20050250262" | "20060176413" | "5132248" | "5427976" | "6180976" | "6630274" | "6952036" | "6994414").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:31

BOE Ex. 1002, p. 272
BOE v. Paneltouch
IPR2025-01245

S369	17	("7868957").URPN.	USPAT	OR	OFF	2015/09/20 13:31
S370	1	(10/573775).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:31
S371	0	(14/078693).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT; USOCR	OR	OFF	2015/09/20 13:35
S372	0	(13/463528).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT; USOCR	OR	OFF	2015/09/20 13:35
S373	0	("2013/0293096").URPN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT	OR	OFF	2015/09/20 13:35
S374	0	(13/888574).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT; USOCR	OR	OFF	2015/09/20 13:35
S375	0	("2011/0273397").URPN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same	USPAT	OR	OFF	2015/09/20 13:35

BOE Ex. 1002, p. 273
BOE v. Paneltouch
IPR2025-01245

		terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)				
S376	0	("2010/0007632").URPN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT	OR	OFF	2015/09/20 13:35
S377	0	(12/495984).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT; USOCR	OR	OFF	2015/09/20 13:35
S378	0	("20020033923" | "20020093619" | "20080048966" | "20100060836" | "20110090183" | "20110090204" | "20110102696" | "20110115839" | "20110128461" | "20110134350" | "20110148826" | "20110148846" | "20110149185" | "20110157131" | "20110175833" | "20110175874" | "20110175894" | "20110175895" | "20110181560" | "20110193836" | "20110199404" | "20110205254" | "20110210957" | "20110216023" | "20110216043" | "20110216048" | "20110267297" | "20110267330" | "20110267331" | "20110267381" | "20110279356" | "20110279419" | "20110285372" | "20110285426" | "20120001874" | "20120001954" | "20120002127" | "20120032942" | "20120033151" | "20120038618" | "20120062811" | "20120273773" | "20120293202" | "20120293209" | "20120319107" | "20130134416" | "20130235689" | "6191833").PN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:35

BOE Ex. 1002, p. 274
BOE v. Paneltouch
IPR2025-01245

		touch$3 same detect$3 same (area$1 or region$1 or section$1)				
S379	0	(14/078693).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:35
S380	0	("20050057708" | "20080062139" | "20090213096" | "20090322702" | "20100060602" | "20100149116" | "20100214266" | "20110043487" | "20110080355" | "20110242444" | "20110310056" | "20120062481").PN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:35
S381	0	(13/463528).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:35
S382	0	(13/888574).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:35
S383	0	("20010008433" | "20040075779" | "20040239641" | "20120031746" | "20120306777" | "20130181910").PN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:35

BOE Ex. 1002, p. 275
BOE v. Paneltouch
IPR2025-01245

		detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)				
S384	0	("20010031074" | "20020047550" | "20020074551" | "20040189567" | "20040217928" | "20040263069" | "20050219229" | "20060011913" | "20060151791" | "20070023754" | "20070108454" | "20070268389" | "20080114926" | "20080129653" | "20080211396" | "20080283837" | "20080284710" | "20080284768" | "20090040445" | "20090114926" | "20090128529" | "20090140270" | "6243069" | "6638781" | "6692984" | "6717359" | "6724012" | "6747290" | "6747638" | "6825492" | "7068254" | "7161185" | "7173281" | "7224391" | "7342256" | "7351605" | "7365750" | "7427223" | "7511323" | "8482484").PN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:35
S385	0	("20030059987" | "20030083203" | "20040038138" | "20040113161" | "20050022374" | "20050250262" | "20060176413" | "20070222933" | "20080024701" | "20110095312" | "5132248" | "5427976" | "5706064" | "5757451" | "6180976" | "6387737" | "6630274" | "6952036" | "6994414" | "7022556" | "7528019" | "7821065" | "7868957").PN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:36
S386	0	(12/495984).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:36

BOE Ex. 1002, p. 276
BOE v. Paneltouch
IPR2025-01245

		Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)				
S387	0	("8228453").URPN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT	OR	OFF	2015/09/20 13:36
S388	0	(12/984627).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:36
S389	0	("20020180910" | "20030067448" | "20030067449" | "20040238726" | "20050184971" | "20060001655" | "20060044279" | "20060250373" | "20070002192").PN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:36
S390	0	("7948179").URPN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT	OR	OFF	2015/09/20 13:36
S391	0	(12/773262).APP. and touch$3 same	US-PGPUB;	OR	OFF	2015/09/20

BOE Ex. 1002, p. 277
BOE v. Paneltouch
IPR2025-01245

		panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USOCR			13:36
S392	0	("20030059987" | "20030083203" | "20040038138" | "20040113161" | "20050250262" | "20060176413" | "5132248" | "5427976" | "6180976" | "6630274" | "6952036" | "6994414").PN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:36
S393	0	("7868957").URPN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT	OR	OFF	2015/09/20 13:36
S394	0	(10/573775).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:36
S395	0	("2015/0205433").URPN.	USPAT	OR	OFF	2015/09/20 13:37
S396	0	(14/598514).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:37
S397	0	("2014/0340360").URPN.	USPAT	OR	OFF	2015/09/20 13:37
S398	0	(14/451769).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:37
S399	0	("2014/0248732").URPN.	USPAT	OR	OFF	2015/09/20

BOE Ex. 1002, p. 278
BOE v. Paneltouch
IPR2025-01245

						13:37
S400	0	(14/276685).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:37
S401	0	("2013/0335376").URPN.	USPAT	OR	OFF	2015/09/20 13:38
S402	0	(14/003443).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:38
S403	0	(13/516193).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:38
S404	9	("2012/0319992").URPN.	USPAT	OR	OFF	2015/09/20 13:38
S405	0	("2012/0262418").URPN.	USPAT	OR	OFF	2015/09/20 13:38
S406	1	(13/518835).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:38
S407	3	("2012/0146930").URPN.	USPAT	OR	OFF	2015/09/20 13:38
S408	0	(13/391288).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:38
S409	1	("2012/0120020").URPN.	USPAT	OR	OFF	2015/09/20 13:38
S410	1	(13/383519).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:38
S411	4	("2011/0316809").URPN.	USPAT	OR	OFF	2015/09/20 13:38
S412	1	(12/980855).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:39
S413	6	("2011/0242028").URPN.	USPAT	OR	OFF	2015/09/20 13:39
S414	0	(13/074042).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:39
S415	7	("2008/0122804").URPN.	USPAT	OR	OFF	2015/09/20 13:39
S416	1	(11/934766).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:39
S417	17	("2006/0033016").URPN.	USPAT	OR	OFF	2015/09/20 13:39
S418	0	(11/196499).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:39
S419	0	("9128556").URPN.	USPAT	OR	OFF	2015/09/20 13:39
S420	5	("20020141227" | "20060001655" | "20070070047" | "20090273578" | "20090284484").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:39
S421	1	(13/383519).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:40
S422	6	("20050179668" | "20080007529" | "20090115756" | "20100123675" | "20100207902" | "20110115733").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:40
S423	0	("8982092").URPN.	USPAT	OR	OFF	2015/09/20 13:40
S424	1	(13/518835).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:40

BOE Ex. 1002, p. 279
BOE v. Paneltouch
IPR2025-01245

S425	4	("20030222857" | "20060109222" | "20070089914" | "20080158199").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:40
S426	0	("8890833").URPN.	USPAT	OR	OFF	2015/09/20 13:40
S427	1	(12/239664).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:40
S428	3	("20010000676" | "20050007353" | "20080068311").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:40
S429	1	("8760409").URPN.	USPAT	OR	OFF	2015/09/20 13:40
S430	1	(11/934766).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:40
S431	32	("20020044208" | "20040169625" | "20040227743" | "20050259168" | "20060231838" | "20070024546" | "20070126682" | "20080055502" | "20080074401" | "20080297709" | "20080309627" | "20090002312" | "20090096760" | "20090115735" | "20090115741" | "20090135158" | "20090159886" | "20090237343" | "20090278810" | "20090303193" | "20100026636" | "20100103121" | "20100134429" | "20100134457" | "20100225612" | "20110057908" | "20110102365" | "20110221697" | "5392058" | "6011531" | "6501529" | "7554616").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:41
S432	1	("8749515").URPN.	USPAT	OR	OFF	2015/09/20 13:41
S433	1	(12/980855).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:41
S434	0	("2012/0319992").URPN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT	OR	OFF	2015/09/20 13:42
S435	0	("2012/0146930").URPN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT	OR	OFF	2015/09/20 13:42

BOE Ex. 1002, p. 280
BOE v. Paneltouch
IPR2025-01245

S436	0	(13/518835).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT; USOCR	OR	OFF	2015/09/20 13:42
S437	0	("2012/0120020").URPN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT	OR	OFF	2015/09/20 13:42
S438	0	(13/383519).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT; USOCR	OR	OFF	2015/09/20 13:42
S439	0	("2011/0316809").URPN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT	OR	OFF	2015/09/20 13:42
S440	0	(12/980855).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT; USOCR	OR	OFF	2015/09/20 13:43

BOE Ex. 1002, p. 281
BOE v. Paneltouch
IPR2025-01245

S441	0	("2011/0242028").URPN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT	OR	OFF	2015/09/20 13:43
S442	0	("2008/0122804").URPN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT	OR	OFF	2015/09/20 13:43
S443	0	(11/934766).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT; USOCR	OR	OFF	2015/09/20 13:43
S444	0	("2006/0033016").URPN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT	OR	OFF	2015/09/20 13:43
S445	0	("20020141227" | "20060001655" | "20070070047" | "20090273578" | "20090284484").PN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:43

BOE Ex. 1002, p. 282
BOE v. Paneltouch
IPR2025-01245

		peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)				
S446	0	(13/383519).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:43
S447	0	("20050179668" | "20080007529" | "20090115756" | "20100123675" | "20100207902" | "20110115733").PN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:43
S448	0	(13/518835).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:43
S449	0	("20030222857" | "20060109222" | "20070089914" | "20080158199").PN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:43
S450	0	(12/239664).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:43

BOE Ex. 1002, p. 283
BOE v. Paneltouch
IPR2025-01245

		detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)				
S451	0	("20010000676" | "20050007353" | "20080068311").PN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:43
S452	0	("20010000676" | "20050007353" | "20080068311").PN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:44
S453	0	(11/934766).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:44
S454	0	("8760409").URPN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT	OR	OFF	2015/09/20 13:44
S455	0	("20020044208" | "20040169625" | "20040227743" | "20050259168" | "20060231838" | "20070024546" | "20070126682" | "20080055502" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:44

BOE Ex. 1002, p. 284
BOE v. Paneltouch
IPR2025-01245

		"20080074401" | "20080297709" | "20080309627" | "20090002312" | "20090096760" | "20090115735" | "20090115741" | "20090135158" | "20090159886" | "20090237343" | "20090278810" | "20090303193" | "20100026636" | "20100103121" | "20100134429" | "20100134457" | "20100225612" | "20110057908" | "20110102365" | "20110221697" | "5392058" | "6011531" | "6501529" | "7554616").PN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)				
S456	0	("8749515").URPN. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	USPAT	OR	OFF	2015/09/20 13:44
S457	0	(12/980855).APP. and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same (outside$1 or peripheral) same touch$3 same detect$3 same (area$1 or region$1 or section$1)	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:44
S458	8	touch$3 same panel$1 same display$3 and (OLED or (organic same light$4 same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and touch$3 same detect$4 same line$1 same matrix and substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:51
S459	1	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 13:53

BOE Ex. 1002, p. 285
BOE v. Paneltouch
IPR2025-01245

		or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1				
S460	0	("2015/0261333").URPN.	USPAT	OR	OFF	2015/09/20 13:53
S461	0	(14/644814).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:53
S462	0	("2015/0255518").URPN.	USPAT	OR	OFF	2015/09/20 13:53
S463	0	(14/639336).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:54
S464	0	("2014/0132870").URPN.	USPAT	OR	OFF	2015/09/20 13:54
S465	1	(14/078693).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:54
S466	0	("2013/0162549").URPN.	USPAT	OR	OFF	2015/09/20 13:54
S467	1	(13/463528).APP.	USPAT; USOCR	OR	OFF	2015/09/20 13:54
S468	48	("20020033923" | "20020093619" | "20080048966" | "20100060836" | "20110090183" | "20110090204" | "20110102696" | "20110115839" | "20110128461" | "20110134350" | "20110148826" | "20110148846" | "20110149185" | "20110157131" | "20110175833" | "20110175874" | "20110175894" | "20110175895" | "20110181560" | "20110193836" | "20110199404" | "20110205254" | "20110210957" | "20110216023" | "20110216043" | "20110216048" | "20110267297" | "20110267330" | "20110267331" | "20110267381" | "20110279356" | "20110279419" | "20110285372" | "20110285426" | "20120001874" | "20120001954" | "20120002127" | "20120032942" | "20120033151" | "20120038618" | "20120062811" | "20120273773" | "20120293202" | "20120293209" | "20120319107" | "20130134416" | "20130235689" | "6191833").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:54
S469	0	("9129568").URPN.	USPAT	OR	OFF	2015/09/20 13:54
S470	1	(14/078693).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:54
S471	12	("20050057708" | "20080062139" | "20090213096" | "20090322702" | "20100060602" | "20100149116" | "20100214266" | "20110043487" | "20110080355" | "20110242444" | "20110310056" | "20120062481").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:54
S472	0	("9046952").URPN.	USPAT	OR	OFF	2015/09/20 13:55
S473	1	(13/463528).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:55

BOE Ex. 1002, p. 286
BOE v. Paneltouch
IPR2025-01245

S474	23	("20030059987" | "20030083203" | "20040038138" | "20040113161" | "20050022374" | "20050250262" | "20060176413" | "20070222933" | "20080024701" | "20110095312" | "5132248" | "5427976" | "5706064" | "5757451" | "6180976" | "6387737" | "6630274" | "6952036" | "6994414" | "7022556" | "7528019" | "7821065" | "7868957").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:55
S475	2	("8228453").URPN.	USPAT	OR	OFF	2015/09/20 13:55
S476	1	(12/984627).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:55
S477	12	("20030059987" | "20030083203" | "20040038138" | "20040113161" | "20050250262" | "20060176413" | "5132248" | "5427976" | "6180976" | "6630274" | "6952036" | "6994414").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:55
S478	17	("7868957").URPN.	USPAT	OR	OFF	2015/09/20 13:55
S479	1	(10/573775).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:55
S480	0	(14/078693).APP. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	USPAT; USOCR	OR	OFF	2015/09/20 13:57
S481	0	(13/463528).APP. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	USPAT; USOCR	OR	OFF	2015/09/20 13:57
S482	0	("20020033923" | "20020093619" | "20080048966" | "20100060836" | "20110090183" | "20110090204" | "20110102696" | "20110115839" | "20110128461" | "20110134350" | "20110148826" | "20110148846" | "20110149185" | "20110157131" | "20110175833" | "20110175874" | "20110175894" | "20110175895" | "20110181560" | "20110193836" | "20110199404" | "20110205254" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:57

BOE Ex. 1002, p. 287
BOE v. Paneltouch
IPR2025-01245

		"20110210957" | "20110216023" | "20110216043" | "20110216048" | "20110267297" | "20110267330" | "20110267331" | "20110267381" | "20110279356" | "20110279419" | "20110285372" | "20110285426" | "20120001874" | "20120001954" | "20120002127" | "20120032942" | "20120033151" | "20120038618" | "20120062811" | "20120273773" | "20120293202" | "20120293209" | "20120319107" | "20130134416" | "20130235689" | "6191833").PN. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1				
S483	0	(14/078693).APP. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:57
S484	0	("20050057708" | "20080062139" | "20090213096" | "20090322702" | "20100060602" | "20100149116" | "20100214266" | "20110043487" | "20110080355" | "20110242444" | "20110310056" | "20120062481").PN. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:57
S485	0	(13/463528).APP. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:57

BOE Ex. 1002, p. 288
BOE v. Paneltouch
IPR2025-01245

		(matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1				
S486	0	("20030059987" | "20030083203" | "20040038138" | "20040113161" | "20050022374" | "20050250262" | "20060176413" | "20070222933" | "20080024701" | "20110095312" | "5132248" | "5427976" | "5706064" | "5757451" | "6180976" | "6387737" | "6630274" | "6952036" | "6994414" | "7022556" | "7528019" | "7821065" | "7868957").PN. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:57
S487	0	("8228453").URPN. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	USPAT	OR	OFF	2015/09/20 13:57
S488	0	(12/984627).APP. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:57
S489	0	("20030059987" | "20030083203" | "20040038138" | "20040113161" | "20050250262" | "20060176413" | "5132248" | "5427976" | "6180976" | "6630274" | "6952036" | "6994414").PN. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 13:57

BOE Ex. 1002, p. 289
BOE v. Paneltouch
IPR2025-01245

		round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1				
S490	0	("7868957").URPN. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	USPAT	OR	OFF	2015/09/20 13:57
S491	0	(10/573775).APP. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USOCR	OR	OFF	2015/09/20 13:57
S492	9	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:01
S493	0	("2015/0205433").URPN.	USPAT	OR	OFF	2015/09/20 14:01
S494	0	(14/598514).APP.	USPAT; USOCR	OR	OFF	2015/09/20 14:01
S495	0	("2014/0340360").URPN.	USPAT	OR	OFF	2015/09/20 14:01
S496	0	(14/451769).APP.	USPAT; USOCR	OR	OFF	2015/09/20 14:01
S497	0	("2014/0248732").URPN.	USPAT	OR	OFF	2015/09/20 14:01
S498	0	(14/276685).APP.	USPAT; USOCR	OR	OFF	2015/09/20 14:02
S499	0	("2013/0335376").URPN.	USPAT	OR	OFF	2015/09/20 14:02
S500	0	(14/003443).APP.	USPAT; USOCR	OR	OFF	2015/09/20 14:02
S501	0	("2012/0262418").URPN.	USPAT	OR	OFF	2015/09/20

BOE Ex. 1002, p. 290
BOE v. Paneltouch
IPR2025-01245

						14:02
S502	1	(13/518835).APP.	USPAT; USOCR	OR	OFF	2015/09/20 14:02
S503	4	("2011/0316809").URPN.	USPAT	OR	OFF	2015/09/20 14:02
S504	1	(12/980855).APP.	USPAT; USOCR	OR	OFF	2015/09/20 14:02
S505	6	("20050179668" | "20080007529" | "20090115756" | "20100123675" | "20100207902" | "20110115733").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 14:02
S506	1	(13/518835).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 14:02
S507	0	("8982092").URPN.	USPAT	OR	OFF	2015/09/20 14:02
S508	4	("20030222857" | "20060109222" | "20070089914" | "20080158199").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 14:03
S509	0	("8890833").URPN.	USPAT	OR	OFF	2015/09/20 14:03
S510	1	(12/239664).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 14:03
S511	32	("20020044208" | "20040169625" | "20040227743" | "20050259168" | "20060231838" | "20070024546" | "20070126682" | "20080055502" | "20080074401" | "20080297709" | "20080309627" | "20090002312" | "20090096760" | "20090115735" | "20090115741" | "20090135158" | "20090159886" | "20090237343" | "20090278810" | "20090303193" | "20100026636" | "20100103121" | "20100134429" | "20100134457" | "20100225612" | "20110057908" | "20110102365" | "20110221697" | "5392058" | "6011531" | "6501529" | "7554616").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 14:03
S512	1	("8749515").URPN.	USPAT	OR	OFF	2015/09/20 14:03
S513	1	(12/980855).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/20 14:03
S514	0	("2011/0316809").URPN. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	USPAT	OR	OFF	2015/09/20 14:04
S515	0	(13/518835).APP. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or	USPAT; USOCR	OR	OFF	2015/09/20 14:04

BOE Ex. 1002, p. 291
BOE v. Paneltouch
IPR2025-01245

		round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1				
S516	0	(12/980855).APP. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	USPAT; USOCR	OR	OFF	2015/09/20 14:04
S517	0	("20050179668" | "20080007529" | "20090115756" | "20100123675" | "20100207902" | "20110115733").PN. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 14:04
S518	0	(13/518835).APP. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USOCR	OR	OFF	2015/09/20 14:04
S519	0	("20030222857" | "20060109222" | "20070089914" | "20080158199").PN. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 14:04

BOE Ex. 1002, p. 292
BOE v. Paneltouch
IPR2025-01245

		contact$3) same coordinate$1				
S520	0	("20020044208" | "20040169625" | "20040227743" | "20050259168" | "20060231838" | "20070024546" | "20070126682" | "20080055502" | "20080074401" | "20080297709" | "20080309627" | "20090002312" | "20090096760" | "20090115735" | "20090115741" | "20090135158" | "20090159886" | "20090237343" | "20090278810" | "20090303193" | "20100026636" | "20100103121" | "20100134429" | "20100134457" | "20100225612" | "20110057908" | "20110102365" | "20110221697" | "5392058" | "6011531" | "6501529" | "7554616").PN. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/20 14:04
S521	0	(12/239664).APP. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	US-PGPUB; USOCR	OR	OFF	2015/09/20 14:04
S522	0	("8749515").URPN. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1	USPAT	OR	OFF	2015/09/20 14:04
S523	0	(12/980855).APP. and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and (circular$3 or round$3) same polariz$3 same plate$1 and (touch$3 or contact$3) same detect$4 same line$1 same (matrix or travers$3) and substrate$1	US-PGPUB; USOCR	OR	OFF	2015/09/20 14:04

BOE Ex. 1002, p. 293
BOE v. Paneltouch
IPR2025-01245

		same (touch$3 or contact$3) same detect$4 same (area$1 or section$1 or regoin$1) and detect$3 same (touch$3 or contact$3) same coordinate$1				

9/ 20/ 2015 2:23:25 PM
C:\ Users\ pdharia\ Documents\ EAST\ Workspaces\ 14451769 09-19-2015.wsp

BOE Ex. 1002, p. 294
BOE v. Paneltouch
IPR2025-01245

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BIB DATA SHEET

CONFIRMATION NO. 2038

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
14/451,769	08/05/2014 RULE	345	2693	1497.50463CC2

APPLICANTS

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

INVENTORS

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

**** CONTINUING DATA ***************************

This application is a CON of 13/966,857 08/14/2013 PAT 8803836
which 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 ****

08/13/2014

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					
Verified and Acknowledged	/PRABODH M DHARIA/ Examiner's Signature	Initials	JAPAN	10	9	1

ADDRESS

Lowe Hauptman & Ham, LLP
2318 Mill Road
Suite 1400
Alexandria, VA 22314
UNITED STATES

TITLE

Display Device with Touch Panel

FILING FEE RECEIVED		
1600	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

BOE Ex. 1002, p. 295
BOE v. Paneltouch
IPR2025-01245

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14451769	OOKAWARA ET AL.
	Examiner	**Art Unit**
	PRABODH M DHARIA	2693

CPC						
Symbol					**Type**	**Version**
G06F		3	/	045	F	2013-01-01
G06F		3	/	047	I	2013-01-01
			/			
			/			
			/			
			/			
			/			
			/			
			/			
			/			
			/			
			/			
			/			
			/			

CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
			/					
			/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	09-21-2015 (Date)	9	
/PRABODH M DHARIA/ Primary Examiner.Art Unit 2693	09-21-2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	10

BOE Ex. 1002, p. 296
BOE v. Paneltouch
IPR2025-01245

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14451769	OOKAWARA ET AL.
	Examiner	**Art Unit**
	PRABODH M DHARIA	2693

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION									
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED				
345	174	G	0	6	F	3 / 045 (2006.01.01)					

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

NONE	09-21-2015	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	9	
/PRABODH M DHARIA/ Primary Examiner.Art Unit 2693	09-21-2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	10

BOE Ex. 1002, p. 297
BOE v. Paneltouch
IPR2025-01245

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14451769	OOKAWARA ET AL.
	Examiner	**Art Unit**
	PRABODH M DHARIA	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
1	1														
2	2														
3	3														
6	4														
4	5														
7	6														
5	7														
8	8														
9	9														

NONE	09-21-2015	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	9	
/PRABODH M DHARIA/ Primary Examiner.Art Unit 2693	09-21-2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	10

BOE Ex. 1002, p. 298
BOE v. Paneltouch
IPR2025-01245

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14451769	OOKAWARA ET AL.
	Examiner	Art Unit
	PRABODH M DHARIA	2693

CPC- SEARCHED		
Symbol	Date	Examiner
G06F3/ 044,045,047,0412	05-01-2015	PD
	05-02-2015	PD
	05-03-2015	PD
	05-04-2015	PD
	09-04-2015	PD
	09-19-2015	PD
	09-20-2015	PD
	09-21-2015	PD

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
345	173-179	05-01-2015	PD
349	12,58,153-156	05-02-2015	PD
438	54,455	05-03-2015	PD
178	18.01-18.06	05-04-2015	PD
		09-04-2015	PD
		09-19-2015	PD
		09-20-2015	PD
		09-21-2015	PD

SEARCH NOTES		
Search Notes	Date	Examiner
East text search per (US-PGPUB;USPAT;USOCR;DERWENT;IBM_TDB;EPO;JPO;FPRS)	05-01-2015	PD
CPC text search per (US-PGPUB;USPAT;USOCR;DERWENT;EPO;JPO;IBM_TDB;FPRS)	05-02-2015	PD
	05-03-2015	PD

BOE Ex. 1002, p. 299
BOE v. Paneltouch
IPR2025-01245

SEARCH NOTES		
Search Notes	**Date**	**Examiner**
	05-04-2015	PD
	09-04-2015	PD
	09-19-2015	PD
	09-20-2015	PD
	09-21-2015	PD

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
345 / G06F3	173-179 / 044,045,047,0412	05-01-2015	PD
rest as listed above as searched		05-02-2015	PD
Interference search per (US-PGPUB)		05-03-2015	PD
		05-04-2015	PD
		09-04-2015	PD
		09-19-2015	PD
		09-20-2015	PD
		09-21-2015	PD

BOE Ex. 1002, p. 300
BOE v. Paneltouch
IPR2025-01245

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14451769	OOKAWARA ET AL.
	Examiner	**Art Unit**
	PRABODH M DHARIA	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	05/03/2015	09/20/2015							
1	1	✓	=							
2	2	✓	=							
3	3	✓	=							
6	4	✓	=							
4	5	✓	=							
7	6	✓	=							
5	7	✓	=							
8	8	✓	=							
9	9	✓	=							

BOE Ex. 1002, p. 301
BOE v. Paneltouch
IPR2025-01245

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4 and touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1 and touch$3 same panel$1 same under same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3 and touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same opposite and touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and outside$1 same area$1 same external same terminal$1 and touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same outside$1 same touch$3 same detect$3 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/20 14:24
		;-2008/0266273	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:04

BOE Ex. 1002, p. 302
BOE v. Paneltouch
IPR2025-01245

L1	1	touch$3 same panel$1 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 and Line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and external same terminal$3 same outside$1 same touch$3 same detect$3 same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:00
L3	1	touch$3 same panel$1 same display$3 and (OED or (organic same emit$4 same display$3)) and touch$3 same detect$4 same line$1 same (matrix or travers$3) and substrate$1 same touch$3 same detect$4 same area$1 and detect$3 same touch$3 same coordinate$1 and outside$1 same area$1 same external same terminal$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:01
L5	2	touch$3 same panel$1 same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same opposite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:01
L7	2	touch$3 same panel$1 same under same (OED or (organic same emit$4 same display$3)) same circular$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:01
L9	1	touch$3 same panel$1 same (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same touch$3 same detect$4 same area$1 same coordinate$1 and (first same second) same touch$3 same detect$4 same line$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:01
L11	1	touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:02
L13	5	"20080136788"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:02
L14	5	"20090079464"	US-PGPUB; USPAT; USOCR;	OR	OFF	2015/09/21 07:03

BOE Ex. 1002, p. 303
BOE v. Paneltouch
IPR2025-01245

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
L15	2	"20020175888"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:03
L16	8	"20020036610"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:03
L17	2	"20070176868"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:03
L18	10	"20100060593"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:04
L19	6	"20080079856"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:04
L20	6	"20070120471"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:04
L21	2	"20080266273"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:05
L22	3	"20100097344"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:05
L23	3	"20100214266"	US-PGPUB;	OR	OFF	2015/09/21

BOE Ex. 1002, p. 304
BOE v. Paneltouch
IPR2025-01245

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			07:05
L24	3	"7,850,338".PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:05
L25	9	("2008/0136788").URPN.	USPAT	OR	OFF	2015/09/21 07:06
L26	1	(11/885880).APP.	USPAT; USOCR	OR	OFF	2015/09/21 07:06
L27	1	("6556189").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/21 07:06
L28	8	("7911455").URPN.	USPAT	OR	OFF	2015/09/21 07:06
L29	0	("2009/0079464").URPN.	USPAT	OR	OFF	2015/09/21 07:06
L30	1	(12/237188).APP.	USPAT; USOCR	OR	OFF	2015/09/21 07:06
L31	8	("20040252269" | "20050258769" | "20070002509" | "5671026" | "5828428" | "6088073" | "6784862" | "6879367").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/21 07:06
L32	0	("7750662").URPN.	USPAT	OR	OFF	2015/09/21 07:06
L33	9	("2002/0175888").URPN.	USPAT	OR	OFF	2015/09/21 07:06
L34	1	(10/179391).APP.	USPAT; USOCR	OR	OFF	2015/09/21 07:07
L35	9	("5631753" | "5641974" | "5801673" | "5808595" | "5877830" | "5907313" | "6055034" | "6137552" | "6175395").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/21 07:07
L36	9	("5631753" | "5641974" | "5801673" | "5808595" | "5877830" | "5907313" | "6055034" | "6137552" | "6175395").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/21 07:07
L37	15	("6703997").URPN.	USPAT	OR	OFF	2015/09/21 07:07
L38	5	("2007/0176868").URPN.	USPAT	OR	OFF	2015/09/21 07:07
L39	0	(11/627120).APP.	USPAT; USOCR	OR	OFF	2015/09/21 07:07
L40	87	("2008/0266273").URPN.	USPAT	OR	OFF	2015/09/21 07:08
L41	0	(12/109140).APP.	USPAT; USOCR	OR	OFF	2015/09/21 07:08
L42	3	("2010/0097344").URPN.	USPAT	OR	OFF	2015/09/21 07:08

BOE Ex. 1002, p. 305
BOE v. Paneltouch
IPR2025-01245

L43	0	(12/434341).APP.	USPAT; USOCR	OR	OFF	2015/09/21 07:08
L44	1	("2010/0214266").URPN.	USPAT	OR	OFF	2015/09/21 07:08
L45	1	(12/773262).APP.	USPAT; USOCR	OR	OFF	2015/09/21 07:08
L46	9	("20020180910" | "20030067448" | "20030067449" | "20040238726" | "20050184971" | "20060001655" | "20060044279" | "20060250373" | "20070002192").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/21 07:09
L47	2	("7948179").URPN.	USPAT	OR	OFF	2015/09/21 07:09
L48	20	("20020076096" | "20020167645" | "20020191102" | "20030053307" | "20040174591" | "20060103903" | "20060228018" | "20070176848" | "20080106794" | "20080131111" | "5298989" | "5461417" | "5539485" | "5604550" | "5684530" | "5761540" | "6059421" | "6191850" | "6667762" | "6829852").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/21 07:09
L49	2	("7850338").URPN.	USPAT	OR	OFF	2015/09/21 07:09
L50	0	(11/903332).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/21 07:09
L51	0	"20080136788" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:11
L52	0	"20090079464" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:11
L53	0	"20020175888" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:11
L54	0	"20020036610" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:11

BOE Ex. 1002, p. 306
BOE v. Paneltouch
IPR2025-01245

		touch$3 same detect$4 same line$1 same travers$4				
L55	0	"20070176868" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:11
L56	0	"20100060593" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:11
L57	0	"20080079856" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:11
L58	0	"20070120471" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:11
L59	0	"20080266273" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:11
L60	0	"20100097344" and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/09/21 07:11
L61	0	"7,850,338".PN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/09/21 07:11

BOE Ex. 1002, p. 307
BOE v. Paneltouch
IPR2025-01245

		area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	IBM_TDB			
L62	0	("2008/0136788").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:13
L63	0	("6556189").PN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/21 07:13
L64	0	(11/885880).APP. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT; USOCR	OR	OFF	2015/09/21 07:13
L65	0	("7911455").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:13
L66	0	(12/237188).APP. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT; USOCR	OR	OFF	2015/09/21 07:13
L67	0	("2002/0175888").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:13
L68	0	(10/179391).APP. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and	USPAT; USOCR	OR	OFF	2015/09/21 07:13

BOE Ex. 1002, p. 308
BOE v. Paneltouch
IPR2025-01245

		substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4				
L69	0	("5631753" | "5641974" | "5801673" | "5808595" | "5877830" | "5907313" | "6055034" | "6137552" | "6175395").PN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/21 07:13
L70	0	("5631753" | "5641974" | "5801673" | "5808595" | "5877830" | "5907313" | "6055034" | "6137552" | "6175395").PN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/21 07:13
L71	0	("6703997").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:13
L72	0	("2007/0176868").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:13
L73	0	("2008/0266273").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:13
L74	0	("2010/0097344").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same	USPAT	OR	OFF	2015/09/21 07:13

BOE Ex. 1002, p. 309
BOE v. Paneltouch
IPR2025-01245

		touch$3 same detect$4 same line$1 same travers$4				
L75	0	("2010/0214266").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:13
L76	0	("2010/0214266").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:13
L77	0	("20020180910" | "20030067448" | "20030067449" | "20040238726" | "20050184971" | "20060001655" | "20060044279" | "20060250373" | "20070002192").PN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/21 07:13
L78	0	("7948179").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:13
L79	0	("7850338").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:13
L80	12	("2002/0036610").URPN.	USPAT	OR	OFF	2015/09/21 07:14
L81	1	(09/944189).APP.	USPAT; USOCR	OR	OFF	2015/09/21 07:14
L82	4	("5818419" | "6127991" | "6317104" | "6806859").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/21 07:14
L83	2	("7167190").URPN.	USPAT	OR	OFF	2015/09/21 07:15

BOE Ex. 1002, p. 310
BOE v. Paneltouch
IPR2025-01245

L84	0	("2002/0036610").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:15
L85	0	(09/944189).APP. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT; USOCR	OR	OFF	2015/09/21 07:15
L86	0	("5818419" | "6127991" | "6317104" | "6806859").PN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/21 07:15
L87	0	("7167190").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:15
L88	33	("2010/0060593").URPN.	USPAT	OR	OFF	2015/09/21 07:16
L89	1	(12/283435).APP.	USPAT; USOCR	OR	OFF	2015/09/21 07:16
L90	19	("20060026521" | "20060097991" | "20060197753" | "20080157867" | "20080309625" | "20090009483" | "20100060589" | "5483261" | "5488204" | "5825352" | "5835079" | "5880411" | "6188391" | "6310610" | "6323846" | "6690387" | "7015894" | "7184064" | "7663607").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/21 07:16
L91	12	("8237667").URPN.	USPAT	OR	OFF	2015/09/21 07:16
L92	1	("2008/0079856").URPN.	USPAT	OR	OFF	2015/09/21 07:18
L93	0	(11/854266).APP.	USPAT; USOCR	OR	OFF	2015/09/21 07:18
L94	11	("2007/0120471").URPN.	USPAT	OR	OFF	2015/09/21 07:18
L95	1	(12/135038).APP.	US-PGPUB; USOCR	OR	OFF	2015/09/21 07:18
L96	8	("2009/0303189").URPN.	USPAT	OR	OFF	2015/09/21

BOE Ex. 1002, p. 311
BOE v. Paneltouch
IPR2025-01245

						07:18
L97	54	("20030134095" | "20040149377" | "20060026521" | "20060087379" | "20060097991" | "20060189123" | "20060197753" | "20070120471" | "20070222763" | "20070271399" | "20080117182" | "20080158181" | "20080165158" | "20080309633" | "20090091551" | "20090143141" | "20090153509" | "20090219258" | "20090266621" | "20090314621" | "20100013800" | "20100079384" | "20110074705" | "20110163764" | "20110298731" | "20120092273" | "20130038572" | "20140139763" | "5062916" | "5239152" | "5483261" | "5488204" | "5825352" | "5835079" | "5869791" | "5880411" | "5994766" | "6188391" | "6297811" | "6310610" | "6323846" | "6690387" | "7015894" | "7075505" | "7117464" | "7184064" | "7321362" | "7423621" | "7663607" | "7705952" | "7755176" | "8179353" | "8255830" | "8479122").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/21 07:19
L98	0	("9069418").URPN.	USPAT	OR	OFF	2015/09/21 07:19
L99	0	("2002/0036610").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:20
L100	0	(09/944189).APP. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT; USOCR	OR	OFF	2015/09/21 07:20
L101	0	("20060026521" | "20060097991" | "20060197753" | "20080157867" | "20080309625" | "20090009483" | "20100060589" | "5483261" | "5488204" | "5825352" | "5835079" | "5880411" | "6188391" | "6310610" | "6323846" | "6690387" | "7015894" | "7184064" | "7663607").PN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/21 07:20
L102	0	("2008/0079856").URPN. and touch$3 same panel$1 same display$3 and	USPAT	OR	OFF	2015/09/21 07:21

BOE Ex. 1002, p. 312
BOE v. Paneltouch
IPR2025-01245

		(OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4				
L103	0	("8237667").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:22
L104	0	(12/283435).APP. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT; USOCR	OR	OFF	2015/09/21 07:23
L105	0	("2010/0060593").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:23
L106	0	("20060026521" | "20060097991" | "20060197753" | "20080157867" | "20080309625" | "20090009483" | "20100060589" | "5483261" | "5488204" | "5825352" | "5835079" | "5880411" | "6188391" | "6310610" | "6323846" | "6690387" | "7015894" | "7184064" | "7663607").PN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/21 07:23
L107	0	("8237667").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:23
L108	0	("2008/0079856").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same	USPAT	OR	OFF	2015/09/21 07:23

BOE Ex. 1002, p. 313
BOE v. Paneltouch
IPR2025-01245

		display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4				
L109	0	("2007/0120471").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:23
L110	0	(12/135038).APP. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	US-PGPUB; USOCR	OR	OFF	2015/09/21 07:23
L111	0	("2009/0303189").URPN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4 same line$1 same travers$4	USPAT	OR	OFF	2015/09/21 07:23
L112	0	("20030134095" | "20040149377" | "20060026521" | "20060087379" | "20060097991" | "20060189123" | "20060197753" | "20070120471" | "20070222763" | "20070271399" | "20080117182" | "20080158181" | "20080165158" | "20080309633" | "20090091551" | "20090143141" | "20090153509" | "20090219258" | "20090266621" | "20090314621" | "20100013800" | "20100079384" | "20110074705" | "20110163764" | "20110298731" | "20120092273" | "20130038572" | "20140139763" | "5062916" | "5239152" | "5483261" | "5488204" | "5825352" | "5835079" | "5869791" | "5880411" | "5994766" | "6188391" | "6297811" | "6310610" | "6323846" | "6690387" | "7015894" | "7075505" | "7117464" | "7184064" | "7321362" | "7423621" | "7663607" | "7705952" | "7755176" | "8179353" | "8255830" | "8479122").PN. and touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) and circular$3 same polariz$3 same plate$1 and substrate$1 same detect$4 same area$1 and (first same second) same touch$3 same detect$4	US-PGPUB; USPAT; USOCR	OR	OFF	2015/09/21 07:23

BOE Ex. 1002, p. 314
BOE v. Paneltouch
IPR2025-01245

		same line$1 same travers$4				
S1	163161	touch$3 same panel$1 same display$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:06
S2	5	"14451769"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:07
S3	3	"13966857"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:11
S4	16378	touch$3 same panel$1 same display$3 and (first and second) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:23
S5	2239	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:25
S6	145	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:25
S7	57	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:26
S8	0	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and seond) same (line$1 or electrode$1) same detect$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:27
S9	0	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or	US-PGPUB; USPAT; USOCR;	OR	OFF	2015/05/02 17:28

BOE Ex. 1002, p. 315
BOE v. Paneltouch
IPR2025-01245

		eternal$1) same area$1 same external same terminal$1 same form$3 and (first and seond) same (line$1 or electrode$1)	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S10	6	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same detect$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:29
S11	0	"345"?4.ccls. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:30
S12	22	"345"/$.ccls. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:30
S13	57	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:32
S14	54	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:33
S15	14	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) and detect$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:33
S16	3	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same intersect$3 same orthogonal$3 and (detect$3 or determin$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:45
S17	3	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or	US-PGPUB; USPAT; USOCR;	OR	OFF	2015/05/02 17:50

BOE Ex. 1002, p. 316
BOE v. Paneltouch
IPR2025-01245

		eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same intersect$3 same orthogonal$3 and coordinate$1	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S18	7	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:51
S19	11	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same (external or another or second) same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:53
S20	22	"345"/$.ccls. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 17:55
S21	23	("345"/$.ccls. or G06F3/$.cpc. or "178"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/02 18:13
S22	5	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 09:30
S23	2	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 09:30
S24	42	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2015/05/03 09:43

BOE Ex. 1002, p. 317
BOE v. Paneltouch
IPR2025-01245

		external same terminal$1 and polariz$6 same film$1	EPO; JPO; DERWENT; IBM_TDB			
S25	21	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 09:44
S26	21	touch$3 near3 panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 10:05
S27	13	touch$3 near3 panel$1 same display$3 and (first and second) near3 substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 10:06
S28	1	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 10:07
S29	4	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1) same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 10:09
S30	11	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) near3 area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 11:16
S31	10	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) near3 area$1 same external near3 terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 11:16
S32	350	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:18

BOE Ex. 1002, p. 318
BOE v. Paneltouch
IPR2025-01245

S33	401	touch$3 same panel$1 same display$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:18
S34	8	touch$3 same panel$1 same display$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:19
S35	35	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:21
S36	4	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:21
S37	4	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:22
S38	70	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:23
S39	0	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:34

BOE Ex. 1002, p. 319
BOE v. Paneltouch
IPR2025-01245

		peripheral$1) same area$1 and external same terminal$1 same form$3				
S40	0	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or external$1 or peripheral$1) same area$1 and external same terminal$1 same form$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:36
S41	0	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or external$1 or peripheral$1) same area$1 and (outside$1 or external$1 or peripheral$1) same terminal$1 same form$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:44
S42	0	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or external$1 or peripheral$1) same area$1 and (outside$1 or external$1 or peripheral$1) same terminal$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:45
S43	0	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same terminal$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:49
S44	0	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or interconnect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:50
S45	44	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2015/05/03 12:50

BOE Ex. 1002, p. 320
BOE v. Paneltouch
IPR2025-01245

		and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or interconnect$4 or connect$4)	DERWENT; IBM_TDB			
S46	44	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:51
S47	40	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4) and (first and second) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:51
S48	34	("345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4) and (first and second) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 12:53
S49	82	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4) and (first and second) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 13:05
S50	57	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 13:14

BOE Ex. 1002, p. 321
BOE v. Paneltouch
IPR2025-01245

		(terminal$1 or inter-connect$4 or connect$4) and (first and second) same substrate$1				
S51	57	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 13:14
S52	45	("345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 13:16
S53	29	("345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) same substrate$1 and touch$3 same sens$3 same area$1 same (outside$1 or eternal$1 or peripheral$1) same display$3 same panel$1 same (terminal$1 or inter-connect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 13:22
S54	29	("345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) same substrate$1 and touch$3 same sens$3 same area$1 same (terminal$1 or inter-connect$4 or connect$4) same (outside$1 or eternal$1 or peripheral$1) same display$3 same panel$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 13:23
S55	586	touch$3 same panel$1 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	2015/05/03 13:53
S56	341	touch$3 same panel$1 same display$3 and circular same polariz$3 adj (plate$1 or film$1)	US-PGPUB; USPAT; USOCR;	OR	OFF	2015/05/03 13:53

BOE Ex. 1002, p. 322
BOE v. Paneltouch
IPR2025-01245

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S57	185	touch$3 same panel$1 same display$3 and circular adj polariz$3 adj (plate$1 or film$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 13:53
S58	183	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:23
S59	0	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:24
S60	25	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:25
S61	0	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:25
S62	7	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:25
S63	1	"14451769" and touch$3 same panel$1 same display$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:27
S64	1	"14451769" and touch$3 same panel$1 same display$3 and circular	US-PGPUB; USPAT;	OR	OFF	2015/05/03 14:27

BOE Ex. 1002, p. 323
BOE v. Paneltouch
IPR2025-01245

		same polariz$3 same (plate$1 or film$1)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S65	0	"14451769" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:28
S66	1	"14451769" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:28
S67	0	"14451769" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:29
S68	0	"14451769" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:29
S69	0	"14451769" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (cordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:31
S70	1	"14451769" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:31
S71	1	"14451769" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:31

BOE Ex. 1002, p. 324
BOE v. Paneltouch
IPR2025-01245

		(othogonal$3 or travers$3 or perpendicular or intersect$4)				
S72	9	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:32
S73	38	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch panel same circul$3 same polariz$3 same plate$1 same arrang$3 same order	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:36
S74	1	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:37
S75	1	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:38
S76	5	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same	US-PGPUB; USPAT; USOCR; FPRS;	OR	OFF	2015/05/03 14:40

BOE Ex. 1002, p. 325
BOE v. Paneltouch
IPR2025-01245

		external same terminal$1 and circul$3 same polariz$6 same (film$1 or plate$1)	EPO; JPO; DERWENT; IBM_TDB			
S79	7	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:56
S80	6	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same panel$1 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:57
S81	8	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 14:58
S85	7	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 19:57
S86	0	("2014/0340360").URPN.	USPAT	OR	OFF	2015/05/03 20:03
S87	0	(14/451769).APP.	USPAT; USOCR	OR	OFF	2015/05/03 20:03
S88	0	("2013/0328815").URPN.	USPAT	OR	OFF	2015/05/03 20:03
S89	1	(13/966857).APP.	USPAT; USOCR	OR	OFF	2015/05/03 20:03
S90	0	("2013/0258614").URPN.	USPAT	OR	OFF	2015/05/03 20:04
S91	0	(13/991487).APP.	USPAT; USOCR	OR	OFF	2015/05/03 20:04
S92	1	("2013/0249863").URPN.	USPAT	OR	OFF	2015/05/03 20:04
S93	0	(13/991682).APP.	USPAT; USOCR	OR	OFF	2015/05/03 20:04
S94	0	("2013/0057793").URPN.	USPAT	OR	OFF	2015/05/03 20:04

BOE Ex. 1002, p. 326
BOE v. Paneltouch
IPR2025-01245

S95	0	(13/697721).APP.	USPAT; USOCR	OR	OFF	2015/05/03 20:04
S96	5	("2010/0177055").URPN.	USPAT	OR	OFF	2015/05/03 20:04
S97	1	(12/649414).APP.	USPAT; USOCR	OR	OFF	2015/05/03 20:05
S98	1	("2008/0079856").URPN.	USPAT	OR	OFF	2015/05/03 20:05
S99	0	(11/854266).APP.	USPAT; USOCR	OR	OFF	2015/05/03 20:05
S100	10	("2007/0120471").URPN.	USPAT	OR	OFF	2015/05/03 20:05
S101	1	(10/576495).APP.	USPAT; USOCR	OR	OFF	2015/05/03 20:05
S102	8	("2002/0175888").URPN.	USPAT	OR	OFF	2015/05/03 20:05
S103	1	(10/179391).APP.	USPAT; USOCR	OR	OFF	2015/05/03 20:05
S104	29	("20010043291" | "20020047969" | "20030090803" | "20050046622" | "20050139398" | "20050190338" | "20060274047" | "20060274049" | "20080030483" | "20090046077" | "20090086318" | "20090096763" | "20090128518" | "20090143141" | "20090167721" | "20100033443" | "20100085322" | "20100085326" | "20110069036" | "6078274" | "6552718" | "6814452" | "7535462" | "7593004" | "7868957" | "7906216" | "8072436" | "8125466" | "8228453").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 20:06
S105	0	("8803836").URPN.	USPAT	OR	OFF	2015/05/03 20:06
S106	1	(13/966857).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 20:06
S107	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	2015/05/03 20:06
S108	0	("8519969").URPN.	USPAT	OR	OFF	2015/05/03 20:06
S109	1	(12/649414).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 20:06
S110	35	("20010044259" | "20020006558" | "20020056838" | "20020104995" | "20030059717" | "20030127974" | "20030165714" | "20030168966" | "20030210361" | "20040005739" | "20040065345" | "20040160167" | "20040216324" | "20050026423" | "20050037614" | "20050088106" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 20:06

BOE Ex. 1002, p. 327
BOE v. Paneltouch
IPR2025-01245

		"20070069210" | "20070146568" | "20100019242" | "20100090223" | "5084905" | "5747930" | "6072450" | "6346730" | "6614053" | "6639265" | "6709902" | "6767772" | "6994414" | "7119365" | "7136127" | "7176068" | "7198816" | "7619250" | "7638846").PN.				
S111	6	("7859187").URPN.	USPAT	OR	OFF	2015/05/03 20:06
S112	1	(10/576495).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 20:07
S113	9	("5631753" | "5641974" | "5801673" | "5808595" | "5877830" | "5907313" | "6055034" | "6137552" | "6175395").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 20:07
S114	14	("6703997").URPN.	USPAT	OR	OFF	2015/05/03 20:07
S115	1	(10/179391).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 20:07
S116	0	(12/649414).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT; USOCR	OR	OFF	2015/05/03 20:10
S117	0	("2007/0120471").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT	OR	OFF	2015/05/03 20:10
S118	0	("2013/0249863").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same	USPAT	OR	OFF	2015/05/03 20:10

BOE Ex. 1002, p. 328
BOE v. Paneltouch
IPR2025-01245

		(othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S119	0	(13/966857).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT; USOCR	OR	OFF	2015/05/03 20:10
S120	0	("2010/0177055").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT	OR	OFF	2015/05/03 20:10
S121	0	("2008/0079856").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT	OR	OFF	2015/05/03 20:10
S122	0	("2002/0175888").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same	USPAT	OR	OFF	2015/05/03 20:10

BOE Ex. 1002, p. 329
BOE v. Paneltouch
IPR2025-01245

		(line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S123	0	(10/576495).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT; USOCR	OR	OFF	2015/05/03 20:10
S124	0	(10/179391).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT; USOCR	OR	OFF	2015/05/03 20:10
S125	0	("20010043291" | "20020047969" | "20030090803" | "20050046622" | "20050139398" | "20050190338" | "20060274047" | "20060274049" | "20080030483" | "20090046077" | "20090086318" | "20090096763" | "20090128518" | "20090143141" | "20090167721" | "20100033443" | "20100085322" | "20100085326" | "20110069036" | "6078274" | "6552718" | "6814452" | "7535462" | "7593004" | "7868957" | "7906216" | "8072436" | "8125466" | "8228453").PN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 20:10

BOE Ex. 1002, p. 330
BOE v. Paneltouch
IPR2025-01245

		perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S126	0	(13/966857).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USOCR	OR	OFF	2015/05/03 20:10
S127	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 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 20:10
S128	0	(12/649414).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USOCR	OR	OFF	2015/05/03 20:10

BOE Ex. 1002, p. 331
BOE v. Paneltouch
IPR2025-01245

S129	0	("20010044259" | "20020006558" | "20020056838" | "20020104995" | "20030059717" | "20030127974" | "20030165714" | "20030168966" | "20030210361" | "20040005739" | "20040065345" | "20040160167" | "20040216324" | "20050026423" | "20050037614" | "20050088106" | "20070069210" | "20070146568" | "20100019242" | "20100090223" | "5084905" | "5747930" | "6072450" | "6346730" | "6614053" | "6639265" | "6709902" | "6767772" | "6994414" | "7119365" | "7136127" | "7176068" | "7198816" | "7619250" | "7638846").PN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 20:10
S130	0	("7859187").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT	OR	OFF	2015/05/03 20:10
S131	0	(10/576495).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USOCR	OR	OFF	2015/05/03 20:10

BOE Ex. 1002, p. 332
BOE v. Paneltouch
IPR2025-01245

S132	0	("5631753" | "5641974" | "5801673" | "5808595" | "5877830" | "5907313" | "6055034" | "6137552" | "6175395").PN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 20:10
S133	0	("6703997").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT	OR	OFF	2015/05/03 20:10
S134	0	(10/179391).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USOCR	OR	OFF	2015/05/03 20:10
S135	145	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:16
S136	57	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2015/05/03 20:16

BOE Ex. 1002, p. 333
BOE v. Paneltouch
IPR2025-01245

		form$3	DERWENT; IBM_TDB			
S137	6	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same detect$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:16
S138	54	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:16
S139	57	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:16
S140	14	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) and detect$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:16
S141	3	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same intersect$3 same orthogonal$3 and (detect$3 or determin$3) same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:17
S142	3	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same intersect$3 same orthogonal$3 and coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:17
S143	7	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:17
S144	11	touch$3 same panel$1 same display$3	US-PGPUB;	OR	ON	2015/05/03

BOE Ex. 1002, p. 334
BOE v. Paneltouch
IPR2025-01245

		and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same (external or another or second) same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			20:17
S145	5	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:17
S146	2	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:17
S147	42	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:17
S148	21	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:17
S149	21	touch$3 near3 panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:18
S150	1	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:18
S151	1	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:18

BOE Ex. 1002, p. 335
BOE v. Paneltouch
IPR2025-01245

S152	4	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1) same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:18
S153	11	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) near3 area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:18
S154	10	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) near3 area$1 same external near3 terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:20
S155	10	S154 AND ((G06F3/045 OR G06F3/047 OR G09G3/3648 OR G09G2320/0223 OR G09G2310/027 OR G09G2320/041 OR G09G2330/021 OR G09G2340/0428 OR G09G3/20 OR G09G3/2014 OR G09G3/2022 OR G09G3/3688).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:21
S156	10	S153 AND ((G06F3/045 OR G06F3/047 OR G09G3/3648 OR G09G2320/0223 OR G09G2310/027 OR G09G2320/041 OR G09G2330/021 OR G09G2340/0428 OR G09G3/20 OR G09G3/2014 OR G09G3/2022 OR G09G3/3688).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:24
S157	4	S152 AND ((G06F2203/04107 OR G06F3/0418 OR G06F3/044 OR G06F3/041 OR H04N5/2354).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:24
S158	1	S151 AND ((H04N5/2354).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:25
S159	1	S150 AND ((H04N5/2354).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:25
S160	18	S149 AND ((G09G3/3648 OR G09G2320/0223 OR G09G2300/0426 OR G09G2310/027 OR G09G2310/0297 OR G09G2320/041	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2015/05/03 20:25

BOE Ex. 1002, p. 336
BOE v. Paneltouch
IPR2025-01245

		OR G09G2330/021 OR G09G2340/0428 OR G09G3/006 OR G09G3/20 OR G09G3/2014 OR G09G3/2022 OR G09G3/3688 OR G02F1/13454 OR G02F1/136209 OR G02F1/1333 OR G02F1/136204 OR G02F2001/133388 OR G02F1/134309 OR G02F1/136213 OR G02F1/1395 OR G02F2001/13629 OR G06F3/045 OR G06F3/047 OR G06F2203/04103 OR G06F2203/04111 OR G06F3/044).CPC.)	EPO; JPO; DERWENT; IBM_TDB			
S161	18	S148 AND ((G09G3/3648 OR G09G2320/0223 OR G09G2300/0426 OR G09G2310/027 OR G09G2310/0297 OR G09G2320/041 OR G09G2330/021 OR G09G2340/0428 OR G09G3/006 OR G09G3/20 OR G09G3/2014 OR G09G3/2022 OR G09G3/3688 OR G02F1/13454 OR G02F1/136209 OR G02F1/1333 OR G02F1/136204 OR G02F2001/133388 OR G02F1/134309 OR G02F1/136213 OR G02F1/1395 OR G02F2001/13629 OR 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	2015/05/03 20:25
S162	39	S147 AND ((G09G3/3648 OR G09G3/006 OR G09G3/3688 OR G09G2300/0426 OR G09G2300/0408 OR G09G2310/0297 OR G09G2320/0223 OR G09G2310/027 OR G09G2310/0289 OR G09G2320/041 OR G09G2330/021 OR G09G2330/06 OR G09G2330/12 OR G09G2340/0428 OR G09G3/20 OR G09G3/2014 OR G09G3/2022 OR G09G3/3677 OR G09G3/3611 OR G09G5/18 OR G02F1/136209 OR G02F1/133526 OR G02F1/1345 OR G02F1/13454 OR G02F1/1309 OR G02F1/1333 OR G02F1/133371 OR G02F1/133555 OR G02F1/13452 OR G02F1/136213 OR G02F1/1303 OR G02F1/13318 OR G02F1/133351 OR G02F1/1362 OR G02F1/136204 OR G02F1/136227 OR G02F2001/133388 OR G02F2001/136254 OR G02F2203/69 OR G02F1/133707 OR G02F1/133784 OR G02F1/134309 OR G02F1/134363 OR G02F1/1395 OR G02F2001/134381 OR G02F2001/13629 OR G02F2001/13712 OR G02F2202/28 OR G06F3/045 OR G06F3/047 OR G06F3/0412 OR G06F2203/04103 OR G06F2203/04111 OR G06F3/042 OR G06F3/044 OR G06F1/1643 OR G06F2203/04107 OR G06F3/0416).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:25
S163	2	S146 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT;	OR	ON	2015/05/03 20:25

BOE Ex. 1002, p. 337
BOE v. Paneltouch
IPR2025-01245

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S164	2	S145 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:26
S165	2	S144 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:26
S166	2	S143 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:26
S167	3	S142 AND ((B29C33/302 OR B29C33/3842 OR B29C33/42 OR B29C39/34 OR B29K2083/00 OR G21K1/02 OR G21K1/025).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:26
S168	3	S141 AND ((B29C33/302 OR B29C33/3842 OR B29C33/42 OR B29C39/34 OR B29K2083/00 OR G21K1/02 OR G21K1/025).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:26
S169	11	S140 AND ((G06F3/041 OR G06F3/045 OR G06F3/047 OR G06F3/0412).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:27
S170	36	S139 AND ((G09G2310/027 OR G09G2330/04 OR G09G3/3648 OR G09G2310/0267 OR G09G2330/027 OR G09G3/2014 OR G09G2310/0229 OR G09G2310/0297 OR G09G2320/0276 OR G09G2320/0626 OR G09G2330/02 OR G09G2340/125 OR G09G3/2011 OR G09G3/22 OR G09G3/3688 OR G09G5/02 OR G09G2300/0426 OR G09G3/20 OR G09G2310/0281 OR G09G2320/0223 OR G09G3/3614 OR G09G2300/08 OR G09G2310/063 OR G09G2320/041 OR G09G2330/021 OR G09G2340/0428 OR G09G3/006 OR G09G3/2022 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:27

BOE Ex. 1002, p. 338
BOE v. Paneltouch
IPR2025-01245

		G09G3/3677 OR G06F3/041 OR G06F3/045 OR G06F3/047 OR G06F13/1689 OR G06F13/1694 OR G06F2203/04103 OR G06F2203/04111 OR G06F3/044 OR G06F3/0412).CPC.)				
S171	36	S138 AND ((G09G2310/027 OR G09G2330/04 OR G09G3/3648 OR G09G2310/0267 OR G09G2330/027 OR G09G3/2014 OR G09G2310/0229 OR G09G2310/0297 OR G09G2320/0276 OR G09G2320/0626 OR G09G2330/02 OR G09G2340/125 OR G09G3/2011 OR G09G3/22 OR G09G3/3688 OR G09G5/02 OR G09G2300/0426 OR G09G3/20 OR G09G2310/0281 OR G09G2320/0223 OR G09G3/3614 OR G09G2300/08 OR G09G2310/063 OR G09G2320/041 OR G09G2330/021 OR G09G2340/0428 OR G09G3/006 OR G09G3/2022 OR G09G3/3677 OR G06F3/041 OR G06F3/045 OR G06F3/047 OR G06F13/1689 OR G06F13/1694 OR G06F2203/04103 OR G06F2203/04111 OR G06F3/044 OR G06F3/0412).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:27
S172	6	S137 AND ((G06F3/041 OR G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:27
S173	36	S136 AND ((G09G2310/027 OR G09G2330/04 OR G09G3/3648 OR G09G2310/0267 OR G09G2330/027 OR G09G3/2014 OR G09G2310/0229 OR G09G2310/0297 OR G09G2320/0276 OR G09G2320/0626 OR G09G2330/02 OR G09G2340/125 OR G09G3/2011 OR G09G3/22 OR G09G3/3688 OR G09G5/02 OR G09G2300/0426 OR G09G3/20 OR G09G2310/0281 OR G09G2320/0223 OR G09G3/3614 OR G09G2300/08 OR G09G2310/063 OR G09G2320/041 OR G09G2330/021 OR G09G2340/0428 OR G09G3/006 OR G09G3/2022 OR G09G3/3677 OR G06F3/041 OR G06F3/045 OR G06F3/047 OR G06F13/1689 OR G06F13/1694 OR G06F2203/04103 OR G06F2203/04111 OR G06F3/044 OR G06F3/0412).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:27
S174	68	S135 AND ((G09G3/3648 OR G09G3/3688 OR G09G2310/0297 OR G09G2300/0426 OR G09G2310/027 OR G09G3/3614 OR G09G2310/0281 OR G09G2330/04 OR G09G2310/0267 OR G09G2330/027 OR G09G3/006 OR G09G3/3611 OR G09G3/3677 OR G09G2320/0233 OR G09G3/2014 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:28

BOE Ex. 1002, p. 339
BOE v. Paneltouch
IPR2025-01245

		G09G2300/0408 OR G09G2310/0205 OR G09G2310/0218 OR G09G2310/0229 OR G09G2310/0251 OR G09G2320/0209 OR G09G2320/0257 OR G09G2320/0276 OR G09G2320/0626 OR G09G2330/02 OR G09G2340/125 OR G09G3/001 OR G09G3/20 OR G09G3/2011 OR G09G3/22 OR G09G3/34 OR G09G5/02 OR G09G2300/08 OR G09G2310/0289 OR G09G2310/063 OR G09G2320/0261 OR G09G2320/103 OR G09G2330/021 OR G09G2340/0435 OR G09G2360/16 OR G09G2320/0219 OR G09G2320/0223 OR G09G2320/0238 OR G09G2320/0252 OR G09G2320/041 OR G09G2330/06 OR G09G2330/08 OR G09G2330/12 OR G09G2340/0428 OR G09G2340/16 OR G09G3/2022 OR G09G3/3655 OR G09G5/006 OR G09G5/18 OR G06F3/045 OR G06F3/047 OR G06F3/041 OR G06F3/0412 OR G06F2203/04103 OR G06F2203/04111 OR G06F3/042 OR G06F3/044 OR G06F13/1689 OR G06F13/1694 OR G06F1/1643 OR G06F1/182 OR G06F2203/04107 OR G06F3/0416).CPC.)				
S175	350	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:28
S176	401	touch$3 same panel$1 same display$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:28
S177	8	touch$3 same panel$1 same display$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:28
S178	35	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:29
S179	4	touch$3 same panel$1 same display$3	US-PGPUB;	OR	ON	2015/05/03

BOE Ex. 1002, p. 340
BOE v. Paneltouch
IPR2025-01245

		and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			20:29
S180	70	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:29
S181	44	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or interconnect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:29
S182	44	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:29
S183	40	touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4) and (first and second) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:30
S184	341	touch$3 same panel$1 same display$3 and circular same polariz$3 adj (plate$1 or film$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:30
S185	586	touch$3 same panel$1 same display$3 and circular same polariz$3 same	US-PGPUB; USPAT;	OR	ON	2015/05/03 20:30

BOE Ex. 1002, p. 341
BOE v. Paneltouch
IPR2025-01245

		(plate$1 or film$1)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S186	185	touch$3 same panel$1 same display$3 and circular adj polariz$3 adj (plate$1 or film$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:30
S187	183	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:30
S188	25	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:30
S189	7	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:31
S190	9	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:31
S191	38	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch panel same circul$3 same polariz$3 same plate$1 same arrang$3 same order	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:31
S192	1	touch$3 same panel$1 same display$3	US-PGPUB;	OR	ON	2015/05/03

BOE Ex. 1002, p. 342
BOE v. Paneltouch
IPR2025-01245

		and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			20:31
S193	1	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:31
S194	5	touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 and circul$3 same polariz$6 same (film$1 or plate$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:32
S195	25	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:32
S196	7	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:32
S197	6	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same panel$1 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:32
S198	8	touch$3 same panel$1 same display$3	US-PGPUB;	OR	ON	2015/05/03

BOE Ex. 1002, p. 343
BOE v. Paneltouch
IPR2025-01245

		and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			20:33
S199	7	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/05/03 20:33
S200	1208717	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:37
S201	1208717	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:37
S202	4	S199 AND ((G06F3/044 OR G06F2203/04102 OR G06F2203/04103 OR G06F2203/04111 OR G06F1/1637 OR G06F1/1652 OR G06F1/1656 OR G06F1/1658).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:37
S203	5	S198 AND ((G06F3/044 OR G06F2203/04102 OR G06F2203/04103 OR G06F2203/04111 OR G06F1/1637 OR G06F1/1652 OR G06F1/1656 OR G06F1/1658 OR G06F3/0414).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:37
S204	1	S193 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:37
S205	1	S192 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:38

BOE Ex. 1002, p. 344
BOE v. Paneltouch
IPR2025-01245

S206	14	S191 AND ((G06F3/045 OR G06F3/044 OR G06F2203/04103 OR G06F2203/04102 OR G06F2203/04111 OR G06F1/1616 OR G06F1/1626 OR G06F1/1639 OR G06F3/011 OR G06F3/041 OR G06F3/0412 OR G06F3/0414 OR G06F3/047 OR G09G2300/0426 OR G09G2300/0842 OR G09G2300/0861 OR G09G2320/02 OR G09G2320/0209 OR G09G2320/064 OR G09G2370/08 OR G09G3/3233 OR G09G3/3659 OR G09G3/3677).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:38
S207	6	S190 AND ((G06F3/044 OR G06F2203/04102 OR G06F2203/04103 OR G06F2203/04111 OR G06F1/1637 OR G06F1/1652 OR G06F1/1656 OR G06F1/1658 OR G06F3/0414 OR G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:38
S208	4	S189 AND ((G06F3/044 OR G06F2203/04102 OR G06F2203/04103 OR G06F2203/04111 OR G06F1/1637 OR G06F1/1652 OR G06F1/1656 OR G06F1/1658).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:38
S209	20	S188 AND ((G06F3/044 OR G06F2203/04103 OR G06F2203/04102 OR G06F3/0412 OR G06F1/1652 OR G06F2203/04111 OR G06F3/041 OR G06F1/1637 OR G06F1/1643 OR G06F1/1656 OR G06F1/1658 OR G06F3/03 OR G06F3/14 OR G06F3/1431 OR G06F3/1446 OR G09G2300/0426 OR G09G2330/04 OR G09G2340/0442 OR G09G2354/00 OR G09G2380/02).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:38
S210	71	S187 AND ((G06F3/044 OR G06F2203/04103 OR G06F3/041 OR G06F2203/04102 OR G06F3/0412 OR G06F1/1652 OR G06F1/1643 OR G06F3/03 OR G06F1/1637 OR G06F1/169 OR G06F2203/04111 OR G06F3/042 OR G06F1/00 OR G06F1/1616 OR G06F1/1626 OR G06F1/1656 OR G06F1/1658 OR G06F21/32 OR G06F21/83 OR G06F2200/1637 OR G06F2203/04107 OR G06F3/0414 OR G06F3/0416 OR G06F3/0418 OR G06F3/0421 OR G06F3/045 OR G06F3/04886 OR G06F3/14 OR G06F3/1431 OR G06F3/1446 OR G09G3/20 OR G09G2300/0426 OR G09G2320/0247 OR G09G3/003 OR G09G3/3648 OR G09G2300/0439 OR G09G2300/046 OR G09G2320/0261 OR G09G2320/028 OR G09G2320/0626 OR G09G2320/103 OR G09G2330/021 OR G09G2330/04 OR G09G2340/0435 OR G09G2340/0442 OR G09G2354/00	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:39

BOE Ex. 1002, p. 345
BOE v. Paneltouch
IPR2025-01245

		OR G09G2360/142 OR G09G2360/144 OR G09G2360/16 OR G09G2380/02 OR G09G3/3225 OR G09G3/36 OR G09G3/3655 OR G09G5/10 OR G09G5/34).CPC.)				
S211	65	S186 AND ((G06F3/0412 OR G06F1/1652 OR G06F3/045 OR G06F1/1643 OR G06F3/041 OR G06F3/044 OR G06F3/047 OR G06F1/1616 OR G06F1/1626 OR G06F1/1637 OR G06F21/32 OR G06F21/83 OR G06F2203/04102 OR G06F2203/04103 OR G06F3/03 OR G06F3/0421 OR G06F3/04886 OR G06F1/00 OR G06F1/1601 OR G06F1/1603 OR G06F1/1607 OR G06F1/1656 OR G06F1/1658 OR G06F2200/1637 OR G06F2203/04107 OR G06F3/0321 OR G06F3/03545 OR G06F3/0414 OR G06F3/0416 OR G06F3/042 OR G06F3/14 OR G06F3/1431 OR G06F3/1446 OR G09G2300/0842 OR G09G2300/0861 OR G09G3/3241 OR G09G2300/0452 OR G09G2310/0251 OR G09G2310/0297 OR G09G2320/0261 OR G09G2320/066 OR G09G3/20 OR G09G3/2014 OR G09G3/22 OR G09G3/325 OR G09G3/3266 OR G09G3/3283 OR G09G2300/0408 OR G09G2300/0417 OR G09G2300/0809 OR G09G2300/0814 OR G09G2300/0866 OR G09G2310/02 OR G09G2310/0218 OR G09G2310/0256 OR G09G2310/0262 OR G09G2310/027 OR G09G2310/0283 OR G09G2310/06 OR G09G2310/061 OR G09G2320/0214 OR G09G2320/0223 OR G09G2320/0233 OR G09G2320/043 OR G09G2320/0606 OR G09G2320/0626 OR G09G2320/08 OR G09G2330/02 OR G09G2330/021 OR G09G2330/12 OR G09G3/006 OR G09G2300/0426 OR G09G2310/0235 OR G09G2310/0248 OR G09G2320/0247 OR G09G2320/0271 OR G09G2320/0276 OR G09G2320/064 OR G09G2360/144 OR G09G2360/16 OR G09G3/3406 OR G09G3/3648 OR G09G2300/0439 OR G09G2300/0443 OR G09G2360/14 OR G09G2360/142 OR G09G3/32 OR G09G2300/043 OR G09G2300/0456 OR G09G2320/0633 OR G09G2330/04 OR G09G2340/0442 OR G09G2354/00 OR G09G2380/02 OR G09G3/3233 OR G09G3/3258).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:39
S212	148	S185 AND ((G06F3/041 OR G06F2203/04103 OR G06F3/044 OR G06F1/1652 OR G06F1/1643 OR G06F2203/04102 OR G06F3/03 OR G06F3/0412 OR G06F1/1637 OR G06F1/169 OR G06F3/042 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/05/03 20:39

BOE Ex. 1002, p. 346
BOE v. Paneltouch
IPR2025-01245

		G06F1/00 OR G06F1/1616 OR G06F1/1626 OR G06F1/1656 OR G06F1/1658 OR G06F21/32 OR G06F21/83 OR G06F2200/1637 OR G06F3/0321 OR G06F3/03545 OR G06F3/0414 OR G06F3/0416 OR G06F3/0421 OR G06F3/045 OR G06F3/047 OR G06F3/04886 OR G06F3/14 OR G06F3/1431 OR G06F3/1446 OR G09G2300/0426 OR G09G2320/0247 OR G09G3/20 OR G09G3/3648 OR G09G2300/0439 OR G09G2310/0286 OR G09G2320/0261 OR G09G2320/0626 OR G09G2320/103 OR G09G2330/00 OR G09G2330/021 OR G09G2330/04 OR G09G2340/0435 OR G09G2340/0442 OR G09G2354/00 OR G09G2360/142 OR G09G2360/16 OR G09G2380/02 OR G09G3/36 OR G09G3/3655 OR G09G3/3677 OR G09G5/10 OR G09G5/34).CPC.)	IBM_TDB			
S213	104	S184 AND ((G06F3/044 OR G06F3/041 OR G06F3/045 OR G06F2203/04103 OR G06F3/0412 OR G06F3/03 OR G06F1/1652 OR G06F2203/04102 OR G06F3/042 OR G06F1/1637 OR G06F1/1643 OR G06F3/047 OR G06F1/00 OR G06F1/1616 OR G06F1/1626 OR G06F1/1656 OR G06F1/1658 OR G06F21/32 OR G06F21/83 OR G06F2200/1637 OR G06F2203/04107 OR G06F2203/04111 OR G06F3/0321 OR G06F3/03545 OR G06F3/0414 OR G06F3/0416 OR G06F3/0421 OR G06F3/04886 OR G06F3/14 OR G06F3/1431 OR G06F3/1446 OR G09G3/20 OR G09G2300/0426 OR G09G2320/0247 OR G09G3/3648 OR G09G2300/0439 OR G09G2300/046 OR G09G2300/0814 OR G09G2320/0261 OR G09G2320/028 OR G09G2320/0626 OR G09G2320/103 OR G09G2330/021 OR G09G2330/04 OR G09G2340/0435 OR G09G2340/0442 OR G09G2354/00 OR G09G2360/142 OR G09G2360/144 OR G09G2360/16 OR G09G2380/02 OR G09G3/003 OR G09G3/3225 OR G09G3/36 OR G09G5/10 OR G09G5/34).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:39
S214	40	S183 AND ((G06F3/044 OR G06F3/041 OR G06F2203/04103 OR G06F3/0416 OR G06F2203/04111 OR G06F2203/04112 OR G06F1/169 OR G06F2203/04107 OR G06F3/045 OR G06F1/1637 OR G06F2203/04106 OR G06F3/0412 OR G06F3/0414 OR G06F3/042 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:39
S215	44	S182 AND ((G06F3/044 OR G06F3/041 OR G06F2203/04103 OR G06F3/0416 OR G06F2203/04111 OR	US-PGPUB; USPAT; USOCR;	OR	OFF	2015/05/03 20:39

BOE Ex. 1002, p. 347
BOE v. Paneltouch
IPR2025-01245

		G06F2203/04112 OR G06F2203/04107 OR G06F3/045 OR G06F1/169 OR G06F1/1637 OR G06F2203/04102 OR G06F2203/04106 OR G06F3/0412 OR G06F3/0414 OR G06F3/0418 OR G06F3/042 OR G06F3/047).CPC.)	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S216	44	S181 AND ((G06F3/044 OR G06F3/041 OR G06F2203/04103 OR G06F3/0416 OR G06F2203/04111 OR G06F2203/04112 OR G06F2203/04107 OR G06F3/045 OR G06F1/169 OR G06F1/1637 OR G06F2203/04102 OR G06F2203/04106 OR G06F3/0412 OR G06F3/0414 OR G06F3/0418 OR G06F3/042 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:40
S217	68	S180 AND ((G06F3/044 OR G06F3/041 OR G06F2203/04103 OR G06F3/0412 OR G06F3/0416 OR G06F2203/04111 OR G06F2203/04112 OR G06F3/042 OR G06F2203/04107 OR G06F3/045 OR G06F3/0436 OR G06F2203/04106 OR G06F3/03545 OR G06F1/169 OR G06F3/0414 OR G06F3/0418 OR G06F1/1637 OR G06F1/1692 OR G06F2203/04101 OR G06F2203/04102 OR G06F3/033 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:40
S218	4	S179 AND ((G06F3/044 OR G06F2203/04107 OR G06F3/041 OR G06F1/1692 OR G06F2203/04101 OR G06F2203/04103 OR G06F2203/04111 OR G06F2203/04112 OR G06F3/0414 OR G06F3/0418).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:40
S219	32	S178 AND ((G06F3/044 OR G06F3/0412 OR G06F3/041 OR G06F2203/04103 OR G06F3/0416 OR G06F3/0414 OR G06F3/046 OR G06F2203/04106 OR G06F2203/04107 OR G06F2203/04808 OR G06F3/045 OR G06F3/0488 OR G06F1/16 OR G06F1/1643 OR G06F1/169 OR G06F1/1692 OR G06F2203/04101 OR G06F2203/04105 OR G06F2203/04111 OR G06F2203/04112 OR G06F3/0418).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:40
S220	8	S177 AND ((G06F3/044 OR G06F2203/04107 OR G06F3/041 OR G06F1/1692 OR G06F2203/04101 OR G06F2203/04103 OR G06F2203/04111 OR G06F2203/04112 OR G06F3/0412 OR G06F3/0414 OR G06F3/0418 OR G09G3/3648 OR G09G2320/0204 OR G09G2360/144 OR G09G2360/147 OR G09G3/3614).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:40
S221	193	S176 AND ((G06F3/044 OR	US-PGPUB;	OR	OFF	2015/05/03

BOE Ex. 1002, p. 348
BOE v. Paneltouch
IPR2025-01245

		G06F3/0412 OR G06F3/041 OR G06F3/0416 OR G06F2203/04103 OR G06F2203/04107 OR G06F2203/04101 OR G06F3/0414 OR G06F3/045 OR G06F1/1688 OR G06F2203/04106 OR G06F2203/04111 OR G06F2203/04112 OR G06F3/0321 OR G06F3/03542 OR G06F3/047 OR G06F1/16 OR G06F1/1603 OR G06F1/1605 OR G06F1/1616 OR G06F1/1637 OR G06F1/1643 OR G06F1/1647 OR G06F1/1652 OR G06F1/169 OR G06F1/1692 OR G06F2203/0384 OR G06F2203/04104 OR G06F2203/04105 OR G06F2203/04113 OR G06F2203/04803 OR G06F3/016 OR G06F3/03545 OR G06F3/0383 OR G06F3/0418 OR G06F3/042 OR G06F3/0425 OR G06F3/046 OR G06F3/1423 OR G06F3/147 OR G09G2300/0426 OR G09G3/003 OR G09G3/20 OR G09G3/3648 OR G09G5/003 OR G09G2300/023 OR G09G2300/0421 OR G09G2300/0478 OR G09G2300/08 OR G09G2310/0218 OR G09G2310/0267 OR G09G2310/0275 OR G09G2310/0281 OR G09G2310/0289 OR G09G2310/08 OR G09G2330/02 OR G09G2330/021 OR G09G2354/00 OR G09G2360/144 OR G09G2380/02 OR G09G2380/14 OR G09G3/18 OR G09G3/344 OR G09G3/36 OR G09G3/3611 OR G09G3/3677 OR G09G3/3688 OR G09G3/3696 OR G09G5/00 OR G09G5/12).CPC.)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			20:40
S222	157	S175 AND ((G06F3/044 OR G06F3/0412 OR G06F2203/04103 OR G06F3/041 OR G06F3/0416 OR G06F2203/04107 OR G06F3/045 OR G06F1/1603 OR G06F1/1616 OR G06F2203/04101 OR G06F2203/04112 OR G06F3/0321 OR G06F3/03542 OR G06F3/0414 OR G06F3/0418 OR G06F3/047 OR G06F1/1641 OR G06F1/1647 OR G06F1/1652 OR G06F1/1681 OR G06F1/169 OR G06F2203/0384 OR G06F2203/04104 OR G06F2203/04106 OR G06F2203/04111 OR G06F2203/04113 OR G06F3/03545 OR G06F3/0383 OR G06F3/042 OR G06F3/0425 OR G06F3/1423 OR G06F3/147 OR G09G3/20 OR G09G5/003 OR G09G2300/023 OR G09G2300/0421 OR G09G2300/0426 OR G09G2300/0478 OR G09G2300/08 OR G09G2310/0218 OR G09G2310/0267 OR G09G2310/0275 OR G09G2310/0281 OR G09G2310/0289 OR G09G2330/02 OR	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:41

BOE Ex. 1002, p. 349
BOE v. Paneltouch
IPR2025-01245

		G09G2330/021 OR G09G2360/144 OR G09G2380/02 OR G09G2380/14 OR G09G3/344 OR G09G3/3611 OR G09G3/3648 OR G09G3/3677 OR G09G3/3688 OR G09G3/3696 OR G09G5/00).CPC.)				
S223	5	S194 AND ((G06F3/045 OR G06F3/047).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:41
S224	20	S195 AND ((G06F3/044 OR G06F2203/04103 OR G06F2203/04102 OR G06F3/0412 OR G06F1/1652 OR G06F2203/04111 OR G06F3/041 OR G06F1/1637 OR G06F1/1643 OR G06F1/1656 OR G06F1/1658 OR G06F3/03 OR G06F3/14 OR G06F3/1431 OR G06F3/1446 OR G09G2300/0426 OR G09G2330/04 OR G09G2340/0442 OR G09G2354/00 OR G09G2380/02).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:41
S225	4	S196 AND ((G06F3/044 OR G06F2203/04102 OR G06F2203/04103 OR G06F2203/04111 OR G06F1/1637 OR G06F1/1652 OR G06F1/1656 OR G06F1/1658).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:41
S226	6	S197 AND ((G06F3/044 OR G06F2203/04103 OR G06F2203/04102 OR G06F2203/04111 OR G06F3/041 OR G06F3/0412 OR G06F3/0418).CPC.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:41
S227	49360	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:48
S228	6	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same detect$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:48
S229	9503	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2015/05/03 20:48

BOE Ex. 1002, p. 350
BOE v. Paneltouch
IPR2025-01245

		substrate$1	DERWENT; IBM_TDB			
S230	1625	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:48
S231	105	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:48
S232	44	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:48
S233	44	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:48
S234	44	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:48
S235	11	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) and detect$3 same coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:48
S236	0	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/05/03 20:49

BOE Ex. 1002, p. 351
BOE v. Paneltouch
IPR2025-01245

		eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same intersect$3 same orthogonal$3 and (detect$3 or determin$3) same coordinate$1	IBM_TDB			
S237	4	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S238	0	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same intersect$3 same orthogonal$3 and coordinate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S239	4	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same (external or another or second) same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S240	2	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S241	2	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49

BOE Ex. 1002, p. 352
BOE v. Paneltouch
IPR2025-01245

		external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S242	31	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S243	18	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S244	18	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 near3 panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S245	13	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 near3 panel$1 same display$3 and (first and second) near3 substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S246	0	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S247	3	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1) same terminal$1 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49

BOE Ex. 1002, p. 353
BOE v. Paneltouch
IPR2025-01245

		form$3 and polariz$6 same film$1				
S248	11	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) near3 area$1 same external same terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:49
S249	10	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) near3 area$1 same external near3 terminal$1 same form$3 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:54
S250	44	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:54
S251	322	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:54
S252	284	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:54
S253	8	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55

BOE Ex. 1002, p. 354
BOE v. Paneltouch
IPR2025-01245

		same electrode$1 and polariz$6 same film$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1)				
S254	35	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S255	4	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (outside$1 or external or peripheral$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S256	4	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and polariz$6 same film$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S257	70	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S258	44	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55

BOE Ex. 1002, p. 355
BOE v. Paneltouch
IPR2025-01245

		travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or interconnect$4 or connect$4)				
S259	40	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and (first and second) same electrode$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4) and (first and second) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S260	76	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4) and (first and second) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S261	54	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4) and (first and second) same substrate$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S262	54	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) same substrate$1 and touch$3 same sens$3 same (outside$1 or eternal$1 or peripheral$1) same area$1 same (terminal$1 or inter-connect$4 or connect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55

BOE Ex. 1002, p. 356
BOE v. Paneltouch
IPR2025-01245

S263	200	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular same polariz$3 adj (plate$1 or film$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S264	319	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S265	96	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular adj polariz$3 adj (plate$1 or film$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S266	108	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S267	20	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S268	4	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S269	38	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55

BOE Ex. 1002, p. 357
BOE v. Paneltouch
IPR2025-01245

		electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch panel same circul$3 same polariz$3 same plate$1 same arrang$3 same order				
S270	6	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S271	1	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S272	1	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S273	5	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/05/03 20:55

BOE Ex. 1002, p. 358
BOE v. Paneltouch
IPR2025-01245

		eternal$1) same area$1 same external same terminal$1 and circul$3 same polariz$6 same (film$1 or plate$1)	IBM_TDB			
S274	20	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S275	4	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S276	6	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same panel$1 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S277	5	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55
S278	4	(G06F3/$.cpc. or "345"/$.ccls. or "361"/$.ccls. or "382"/$.ccls. or "349"/$.ccls. or "313"/$.ccls.) and touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1) same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 20:55

BOE Ex. 1002, p. 359
BOE v. Paneltouch
IPR2025-01245

		(othogonal$3 or travers$3 or perpendicular or intersect$4)				
S288	0	("2015/0116255").URPN.	USPAT	OR	OFF	2015/05/03 21:05
S289	0	(14/067810).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:06
S290	0	("2015/0077383").URPN.	USPAT	OR	OFF	2015/05/03 21:06
S291	0	(14/218752).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:06
S292	1	("2014/0327644").URPN.	USPAT	OR	OFF	2015/05/03 21:06
S293	1	(13/887373).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:06
S294	1	("2014/0306913").URPN.	USPAT	OR	OFF	2015/05/03 21:07
S295	0	(14/315162).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:07
S296	0	("2014/0184950").URPN.	USPAT	OR	OFF	2015/05/03 21:07
S297	0	(14/141358).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:07
S298	0	("2014/0132861").URPN.	USPAT	OR	OFF	2015/05/03 21:07
S299	0	(14/165553).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:07
S300	0	("2014/0098051").URPN.	USPAT	OR	OFF	2015/05/03 21:07
S301	1	(14/055717).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:07
S302	0	("2014/0049497").URPN.	USPAT	OR	OFF	2015/05/03 21:08
S303	0	(14/047808).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:08
S304	2	("2014/0043293").URPN.	USPAT	OR	OFF	2015/05/03 21:08
S305	0	(14/056841).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:08
S306	5	("2013/0120303").URPN.	USPAT	OR	OFF	2015/05/03 21:08
S307	1	(13/737779).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:08
S308	3	("2012/0299880").URPN.	USPAT	OR	OFF	2015/05/03 21:08
S309	1	(13/568027).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:08
S310	11	("2012/0019467").URPN.	USPAT	OR	OFF	2015/05/03 21:09
S311	1	(13/250984).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:09
S312	8	("2011/0012840").URPN.	USPAT	OR	OFF	2015/05/03 21:09
S313	0	(12/504639).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:09

BOE Ex. 1002, p. 360
BOE v. Paneltouch
IPR2025-01245

S314	20	("2011/0007020").URPN.	USPAT	OR	OFF	2015/05/03 21:09
S315	1	(12/500911).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:09
S316	13	("2010/0328228").URPN.	USPAT	OR	OFF	2015/05/03 21:09
S317	1	(12/494173).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:09
S318	29	("2010/0060593").URPN.	USPAT	OR	OFF	2015/05/03 21:10
S319	1	(12/283435).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:10
S320	10	("20020080728" | "20020185608" | "20050186958" | "20050259568" | "20070275675" | "20080116904" | "20100228810" | "20120056841" | "20120287055" | "5548236").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:10
S321	0	("9001066").URPN.	USPAT	OR	OFF	2015/05/03 21:10
S322	1	(13/887373).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:10
S323	45	("20030132922" | "20040183833" | "20060026521" | "20060114650" | "20060132462" | "20060197753" | "20070109274" | "20070273663" | "20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100059295" | "20100060589" | "20100060593" | "20120019467" | "20120299880" | "20140022203" | "20140043293" | "20140306913" | "5483261" | "5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122" | "8592697" | "8593423" | "8791920").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:10
S324	0	("8988390").URPN.	USPAT	OR	OFF	2015/05/03 21:10
S325	0	(13/935333).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:11
S326	130	("20030076325" | "20040017362" | "20040090429" | "20040119701" | "20040239650" | "20050069718" | "20050073507" | "20050083307" | "20050126831" | "20050146509" | "20050270039" | "20050280639" | "20060038791" | "20060132463" | "20060146484" | "20060197753" | "20060278444" | "20070008299" | "20070012665" | "20070074914" | "20070229468" | "20070229470" | "20070247443" | "20070262963" | "20070279395" | "20070283832" | "20080024456" | "20080062140" | "20080074398" | "20080136787" | "20080158167" | "20080158181" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:11

BOE Ex. 1002, p. 361
BOE v. Paneltouch
IPR2025-01245

		"20080264699" | "20080277259" | "20080283175" | "20080303022" | "20080309633" | "20080309635" | "20090002337" | "20090019344" | "20090054107" | "20090085894" | "20090091551" | "20090135157" | "20090182189" | "20090184937" | "20090205879" | "20090236151" | "20090242283" | "20090267902" | "20090273577" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20090322702" | "20100001973" | "20100007616" | "20100059294" | "20100079384" | "20100110035" | "20100117985" | "20100143848" | "20100149108" | "20100194696" | "20100253638" | "20100328228" | "20100328248" | "20110007020" | "20110096016" | "20110134050" | "20120026099" | "20120113047" | "20120169652" | "20120169653" | "20120169655" | "20120169656" | "20130120303" | "20130224370" | "20130257798" | "20140022186" | "20140132860" | "4087625" | "4090092" | "4304976" | "4475235" | "4659874" | "5194862" | "5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5841078" | "5844506" | "5880411").PN. OR ("6137427" | "6163313" | "6188391" | "6310610" | "6323846" | "6452514" | "6690387" | "6730863" | "6970160" | "7015894" | "7030860" | "7129935" | "7138686" | "7184064" | "7538760" | "7548073" | "7639234" | "7663607" | "7932898" | "8120371" | "8223133" | "8258986" | "8259078" | "8283935" | "8319747" | "8441464" | "8479122" | "8487898" | "8576193" | "8593410" | "8593425" | "8614688" | "8633915").PN.				
S327	0	("8982096").URPN.	USPAT	OR	OFF	2015/05/03 21:11
S328	1	(14/055717).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:11
S329	31	("20060026521" | "20060097991" | "20060197753" | "20070043963" | "20080162996" | "20080272827" | "20080307240" | "20090260898" | "20100115314" | "5483261" | "5488204" | "5790875" | "5825352" | "5835079" | "5880411" | "6058485" | "6188391" | "6282177" | "6310610" | "6323846" | "6690387" | "6801196" | "7015894" | "7016705" | "7023425" | "7184064" | "7506189" | "7508451" | "7509150" | "7663607" | "8479122").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:11
S330	0	("8970506").URPN.	USPAT	OR	OFF	2015/05/03 21:11
S331	1	(12/557962).APP.	US-PGPUB;	OR	OFF	2015/05/03

BOE Ex. 1002, p. 362
BOE v. Paneltouch
IPR2025-01245

			USOCR			21:11
S332	1	(12/494173).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:11
S333	119	("20030076325" | "20040017362" | "20040090429" | "20040119701" | "20040239650" | "20050069718" | "20050073507" | "20050083307" | "20050126831" | "20050146509" | "20050270039" | "20050280639" | "20060026521" | "20060038791" | "20060097991" | "20060132463" | "20060146484" | "20060197753" | "20060278444" | "20070008299" | "20070012665" | "20070074914" | "20070229468" | "20070229470" | "20070247443" | "20070262963" | "20070279395" | "20070283832" | "20080024456" | "20080062140" | "20080074398" | "20080136787" | "20080158167" | "20080158181" | "20080264699" | "20080277259" | "20080283175" | "20080303022" | "20080309633" | "20080309635" | "20090002337" | "20090019344" | "20090054107" | "20090085894" | "20090091551" | "20090135157" | "20090182189" | "20090184937" | "20090205879" | "20090236151" | "20090242283" | "20090267902" | "20090273577" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20090322702" | "20100001973" | "20100007616" | "20100059294" | "20100079384" | "20100110035" | "20100117985" | "20100143848" | "20100149108" | "20100194696" | "20100253638" | "20100328248" | "20110007020" | "20110096016" | "20110134050" | "20120026099" | "20120113047" | "20130120303" | "4087625" | "4090092" | "4304976" | "4475235" | "4659874" | "5194862" | "5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5841078" | "5844506" | "5880411" | "6137427" | "6163313" | "6188391" | "6310610" | "6323846" | "6452514" | "6690387" | "6730863" | "6970160" | "7015894").PN. OR ("7030860" | "7129935" | "7138686" | "7184064" | "7538760" | "7548073" | "7639234" | "7663607" | "7864503" | "7932898" | "8120371" | "8223133" | "8258986" | "8259078" | "8283935" | "8319747" | "8479122" | "8487898" | "8593425").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:12
S334	0	("8957874").URPN.	USPAT	OR	OFF	2015/05/03 21:12
S335	41	("20030132922" | "20040183833" | "20060026521" | "20060114650" | "20060132462" | "20060197753" | "20070109274" | "20070273663" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:12

BOE Ex. 1002, p. 363
BOE v. Paneltouch
IPR2025-01245

		"20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100059295" | "20100060589" | "20100060593" | "20120019467" | "20140043293" | "5483261" | "5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122" | "8592697" | "8593423").PN.				
S336	1	("8791920").URPN.	USPAT	OR	OFF	2015/05/03 21:12
S337	1	(13/568027).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:12
S338	33	("20040140973" | "20060026521" | "20060097991" | "20060197753" | "20080259043" | "20090025987" | "20090114456" | "20090153493" | "20100060592" | "20100201812" | "5483261" | "5488204" | "5585817" | "5729008" | "5812109" | "5825352" | "5835079" | "5880411" | "6005681" | "6188391" | "6310610" | "6323846" | "6502191" | "6690387" | "6864860" | "7015894" | "7184064" | "7190336" | "7436394" | "7500615" | "7663607" | "7714923" | "8479122").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:12
S339	0	("8664548").URPN.	USPAT	OR	OFF	2015/05/03 21:12
S340	1	(12/558140).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:12
S341	94	("20030076325" | "20040017362" | "20040090429" | "20040119701" | "20040239650" | "20050073507" | "20050083307" | "20050126831" | "20050146509" | "20050270039" | "20050280639" | "20060026521" | "20060038791" | "20060097991" | "20060132463" | "20060146484" | "20060197753" | "20070008299" | "20070074914" | "20070229468" | "20070247443" | "20070279395" | "20080024456" | "20080062140" | "20080074398" | "20080136787" | "20080158167" | "20080158181" | "20080264699" | "20080277259" | "20080283175" | "20080309633" | "20080309635" | "20090002337" | "20090019344" | "20090054107" | "20090091551" | "20090135157" | "20090182189" | "20090184937" | "20090236151" | "20090242283" | "20090267902" | "20090273577" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20100001973" | "20100007616" | "20100059294" | "20100079384" | "20100110035" | "20100149108" | "20100194696" | "20100253638" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:13

BOE Ex. 1002, p. 364
BOE v. Paneltouch
IPR2025-01245

		"20100328228" | "20100328248" | "20110007020" | "20130120303" | "4087625" | "4090092" | "4304976" | "4475235" | "4659874" | "5194862" | "5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5880411" | "6188391" | "6310610" | "6323846" | "6690387" | "6730863" | "6970160" | "7015894" | "7030860" | "7129935" | "7138686" | "7184064" | "7538760" | "7548073" | "7639234" | "7663607" | "7932898" | "8120371" | "8223133" | "8319747" | "8479122" | "8487898").PN.				
S342	2	("8593425").URPN.	USPAT	OR	OFF	2015/05/03 21:13
S343	1	(13/737779).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:13
S344	38	("20030132922" | "20040183833" | "20060026521" | "20060114650" | "20060132462" | "20060197753" | "20070273663" | "20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100059295" | "20100060589" | "20100060591" | "20100060593" | "20120299880" | "5483261" | "5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:13
S345	2	("8593423").URPN.	USPAT	OR	OFF	2015/05/03 21:13
S346	1	(13/250984).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:13
S347	63	("20040017362" | "20040090429" | "20040239650" | "20050073507" | "20050083307" | "20050146509" | "20050270039" | "20050280639" | "20060026521" | "20060038791" | "20060097991" | "20060132463" | "20060146484" | "20060197753" | "20070008299" | "20070074914" | "20070229468" | "20070247443" | "20070279395" | "20080074398" | "20080136787" | "20080158167" | "20080158181" | "20080264699" | "20080277259" | "20080309633" | "20080309635" | "20090002337" | "20090019344" | "20090054107" | "20090091551" | "20090236151" | "20090242283" | "20090267902" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20100149108" | "20100328248" | "4304976" | "4659874" | "5194862" | "5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5880411" | "6188391" | "6310610" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:13

BOE Ex. 1002, p. 365
BOE v. Paneltouch
IPR2025-01245

		"6323846" | "6690387" | "7015894" | "7129935" | "7138686" | "7184064" | "7538760" | "7663607" | "8120371" | "8223133" | "8319747").PN.				
S348	1	("8593410").URPN.	USPAT	OR	OFF	2015/05/03 21:13
S349	1	(12/500911).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:14
S350	38	("20030132922" | "20040183833" | "20060026521" | "20060097991" | "20060114650" | "20060132462" | "20060197753" | "20070273663" | "20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100060589" | "20100060593" | "20120019467" | "20120299880" | "5483261" | "5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:14
S351	2	("8592697").URPN.	USPAT	OR	OFF	2015/05/03 21:14
S352	1	(12/283423).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:14
S353	19	("20060026521" | "20060097991" | "20060197753" | "20080157867" | "20080309625" | "20090009483" | "20100060589" | "5483261" | "5488204" | "5825352" | "5835079" | "5880411" | "6188391" | "6310610" | "6323846" | "6690387" | "7015894" | "7184064" | "7663607").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:14
S354	8	("8237667").URPN.	USPAT	OR	OFF	2015/05/03 21:14
S355	1	(12/283435).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:14
S356	25	("20060026521" | "20060097991" | "20060197753" | "20070257890" | "20080158175" | "20100059295" | "20100085325" | "5183040" | "5359156" | "5483261" | "5488204" | "5796389" | "5825352" | "5835079" | "5880411" | "6161042" | "6188391" | "6310610" | "6323846" | "6535147" | "6690387" | "6967606" | "7015894" | "7184064" | "7663607").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:15
S357	107	("8031094").URPN.	USPAT	OR	OFF	2015/05/03 21:15
S358	1	(12/558374).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:15
S359	0	("2014/0327644").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first	USPAT	OR	OFF	2015/05/03 21:18

BOE Ex. 1002, p. 366
BOE v. Paneltouch
IPR2025-01245

		and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S360	0	(13/887373).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT; USOCR	OR	OFF	2015/05/03 21:18
S361	0	("2014/0306913").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S362	0	(14/055717).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT; USOCR	OR	OFF	2015/05/03 21:18
S363	0	("2014/0043293").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S364	0	("2013/0120303").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S365	0	(13/737779).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or	USPAT; USOCR	OR	OFF	2015/05/03 21:18

BOE Ex. 1002, p. 367
BOE v. Paneltouch
IPR2025-01245

		perpendicular) and polariz$6 same film$1				
S366	0	("2012/0299880").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S367	0	(13/568027).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT; USOCR	OR	OFF	2015/05/03 21:18
S368	0	("2012/0019467").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S369	0	(13/250984).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT; USOCR	OR	OFF	2015/05/03 21:18
S370	0	("2011/0012840").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S371	0	("2011/0007020").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18

BOE Ex. 1002, p. 368
BOE v. Paneltouch
IPR2025-01245

S372	0	("2010/0328228").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S373	0	(12/500911).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT; USOCR	OR	OFF	2015/05/03 21:18
S374	0	(12/494173).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT; USOCR	OR	OFF	2015/05/03 21:18
S375	0	("2010/0060593").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S376	0	("2010/0328228").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:18
S377	0	(12/494173).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT; USOCR	OR	OFF	2015/05/03 21:22
S378	0	("2010/0060593").URPN. and touch$3 same panel$1 same display$3 and	USPAT	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 369
BOE v. Paneltouch
IPR2025-01245

		(first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S379	0	(12/283435).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT; USOCR	OR	OFF	2015/05/03 21:23
S380	0	("20020080728" | "20020185608" | "20050186958" | "20050259568" | "20070275675" | "20080116904" | "20100228810" | "20120056841" | "20120287055" | "5548236").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23
S381	0	(13/887373).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23
S382	0	("20030132922" | "20040183833" | "20060026521" | "20060114650" | "20060132462" | "20060197753" | "20070109274" | "20070273663" | "20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100059295" | "20100060589" | "20100060593" | "20120019467" | "20120299880" | "20140022203" | "20140043293" | "20140306913" | "5483261" | "5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122" | "8592697" | "8593423" | "8791920").PN. and touch$3 same panel$1 same	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 370
BOE v. Paneltouch
IPR2025-01245

		display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S383	0	("20030076325" | "20040017362" | "20040090429" | "20040119701" | "20040239650" | "20050069718" | "20050073507" | "20050083307" | "20050126831" | "20050146509" | "20050270039" | "20050280639" | "20060038791" | "20060132463" | "20060146484" | "20060197753" | "20060278444" | "20070008299" | "20070012665" | "20070074914" | "20070229468" | "20070229470" | "20070247443" | "20070262963" | "20070279395" | "20070283832" | "20080024456" | "20080062140" | "20080074398" | "20080136787" | "20080158167" | "20080158181" | "20080264699" | "20080277259" | "20080283175" | "20080303022" | "20080309633" | "20080309635" | "20090002337" | "20090019344" | "20090054107" | "20090085894" | "20090091551" | "20090135157" | "20090182189" | "20090184937" | "20090205879" | "20090236151" | "20090242283" | "20090267902" | "20090273577" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20090322702" | "20100001973" | "20100007616" | "20100059294" | "20100079384" | "20100110035" | "20100117985" | "20100143848" | "20100149108" | "20100194696" | "20100253638" | "20100328228" | "20100328248" | "20110007020" | "20110096016" | "20110134050" | "20120026099" | "20120113047" | "20120169652" | "20120169653" | "20120169655" | "20120169656" | "20130120303" | "20130224370" | "20130257798" | "20140022186" | "20140132860" | "4087625" | "4090092" | "4304976" | "4475235" | "4659874" | "5194862" | "5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5841078" | "5844506" | "5880411").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 371
BOE v. Paneltouch
IPR2025-01245

		film$1				
S384	0	("6137427" | "6163313" | "6188391" | "6310610" | "6323846" | "6452514" | "6690387" | "6730863" | "6970160" | "7015894" | "7030860" | "7129935" | "7138686" | "7184064" | "7538760" | "7548073" | "7639234" | "7663607" | "7932898" | "8120371" | "8223133" | "8258986" | "8259078" | "8283935" | "8319747" | "8441464" | "8479122" | "8487898" | "8576193" | "8593410" | "8593425" | "8614688" | "8633915").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:23
S385	0	("20060026521" | "20060097991" | "20060197753" | "20070043963" | "20080162996" | "20080272827" | "20080307240" | "20090260898" | "20100115314" | "5483261" | "5488204" | "5790875" | "5825352" | "5835079" | "5880411" | "6058485" | "6188391" | "6282177" | "6310610" | "6323846" | "6690387" | "6801196" | "7015894" | "7016705" | "7023425" | "7184064" | "7506189" | "7508451" | "7509150" | "7663607" | "8479122").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23
S386	0	(14/055717).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23
S387	0	(12/557962).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 372
BOE v. Paneltouch
IPR2025-01245

		film$1				
S388	0	(12/494173).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23
S389	0	("20030076325" | "20040017362" | "20040090429" | "20040119701" | "20040239650" | "20050069718" | "20050073507" | "20050083307" | "20050126831" | "20050146509" | "20050270039" | "20050280639" | "20060026521" | "20060038791" | "20060097991" | "20060132463" | "20060146484" | "20060197753" | "20060278444" | "20070008299" | "20070012665" | "20070074914" | "20070229468" | "20070229470" | "20070247443" | "20070262963" | "20070279395" | "20070283832" | "20080024456" | "20080062140" | "20080074398" | "20080136787" | "20080158167" | "20080158181" | "20080264699" | "20080277259" | "20080283175" | "20080303022" | "20080309633" | "20080309635" | "20090002337" | "20090019344" | "20090054107" | "20090085894" | "20090091551" | "20090135157" | "20090182189" | "20090184937" | "20090205879" | "20090236151" | "20090242283" | "20090267902" | "20090273577" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20090322702" | "20100001973" | "20100007616" | "20100059294" | "20100079384" | "20100110035" | "20100117985" | "20100143848" | "20100149108" | "20100194696" | "20100253638" | "20100328248" | "20110007020" | "20110096016" | "20110134050" | "20120026099" | "20120113047" | "20130120303" | "4087625" | "4090092" | "4304976" | "4475235" | "4659874" | "5194862" | "5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5841078" | "5844506" | "5880411" | "6137427" | "6163313" | "6188391" | "6310610" | "6323846" | "6452514" | "6690387" | "6730863" | "6970160" | "7015894").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 373
BOE v. Paneltouch
IPR2025-01245

		(othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S390	0	("7030860" | "7129935" | "7138686" | "7184064" | "7538760" | "7548073" | "7639234" | "7663607" | "7864503" | "7932898" | "8120371" | "8223133" | "8258986" | "8259078" | "8283935" | "8319747" | "8479122" | "8487898" | "8593425").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:23
S391	0	("20030132922" | "20040183833" | "20060026521" | "20060114650" | "20060132462" | "20060197753" | "20070109274" | "20070273663" | "20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100059295" | "20100060589" | "20100060593" | "20120019467" | "20140043293" | "5483261" | "5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122" | "8592697" | "8593423").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23
S392	0	("8791920").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:23
S393	0	(13/568027).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 374
BOE v. Paneltouch
IPR2025-01245

		(othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S394	0	("20040140973" | "20060026521" | "20060097991" | "20060197753" | "20080259043" | "20090025987" | "20090114456" | "20090153493" | "20100060592" | "20100201812" | "5483261" | "5488204" | "5585817" | "5729008" | "5812109" | "5825352" | "5835079" | "5880411" | "6005681" | "6188391" | "6310610" | "6323846" | "6502191" | "6690387" | "6864860" | "7015894" | "7184064" | "7190336" | "7436394" | "7500615" | "7663607" | "7714923" | "8479122").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23
S395	0	(12/558140).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23
S396	0	(12/558140).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23
S397	0	("20030076325" | "20040017362" | "20040090429" | "20040119701" | "20040239650" | "20050073507" | "20050083307" | "20050126831" | "20050146509" | "20050270039" | "20050280639" | "20060026521" | "20060038791" | "20060097991" | "20060132463" | "20060146484" | "20060197753" | "20070008299" | "20070074914" | "20070229468" | "20070247443" | "20070279395" | "20080024456" | "20080062140" | "20080074398" | "20080136787" | "20080158167" | "20080158181" | "20080264699" | "20080277259" | "20080283175" | "20080309633" | "20080309635" | "20090002337" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 375
BOE v. Paneltouch
IPR2025-01245

		"20090019344" | "20090054107" | "20090091551" | "20090135157" | "20090182189" | "20090184937" | "20090236151" | "20090242283" | "20090267902" | "20090273577" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20100001973" | "20100007616" | "20100059294" | "20100079384" | "20100110035" | "20100149108" | "20100194696" | "20100253638" | "20100328228" | "20100328248" | "20110007020" | "20130120303" | "4087625" | "4090092" | "4304976" | "4475235" | "4659874" | "5194862" | "5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5880411" | "6188391" | "6310610" | "6323846" | "6690387" | "6730863" | "6970160" | "7015894" | "7030860" | "7129935" | "7138686" | "7184064" | "7538760" | "7548073" | "7639234" | "7663607" | "7932898" | "8120371" | "8223133" | "8319747" | "8479122" | "8487898").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S398	0	("8593425").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:23
S399	0	(13/737779).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23
S400	0	("20030132922" | "20040183833" | "20060026521" | "20060114650" | "20060132462" | "20060197753" | "20070273663" | "20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100059295" | "20100060589" | "20100060591" | "20100060593" | "20120299880" | "5483261" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 376
BOE v. Paneltouch
IPR2025-01245

		"5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S401	0	("8593423").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:23
S402	0	(13/250984).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:23
S403	0	("20040017362" | "20040090429" | "20040239650" | "20050073507" | "20050083307" | "20050146509" | "20050270039" | "20050280639" | "20060026521" | "20060038791" | "20060097991" | "20060132463" | "20060146484" | "20060197753" | "20070008299" | "20070074914" | "20070229468" | "20070247443" | "20070279395" | "20080074398" | "20080136787" | "20080158167" | "20080158181" | "20080264699" | "20080277259" | "20080309633" | "20080309635" | "20090002337" | "20090019344" | "20090054107" | "20090091551" | "20090236151" | "20090242283" | "20090267902" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20100149108" | "20100328248" | "4304976" | "4659874" | "5194862" | "5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5880411" | "6188391" | "6310610" | "6323846" | "6690387" | "7015894" | "7129935" | "7138686" | "7184064" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:23

BOE Ex. 1002, p. 377
BOE v. Paneltouch
IPR2025-01245

		"7538760" | "7663607" | "8120371" | "8223133" | "8319747").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S404	0	("8593410").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:23
S405	0	(13/737779).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:27
S406	0	("20030132922" | "20040183833" | "20060026521" | "20060114650" | "20060132462" | "20060197753" | "20070273663" | "20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100059295" | "20100060589" | "20100060591" | "20100060593" | "20120299880" | "5483261" | "5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:27
S407	0	("8593423").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same	USPAT	OR	OFF	2015/05/03 21:27

BOE Ex. 1002, p. 378
BOE v. Paneltouch
IPR2025-01245

		form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S408	0	(13/250984).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:27
S409	0	("20040017362" | "20040090429" | "20040239650" | "20050073507" | "20050083307" | "20050146509" | "20050270039" | "20050280639" | "20060026521" | "20060038791" | "20060097991" | "20060132463" | "20060146484" | "20060197753" | "20070008299" | "20070074914" | "20070229468" | "20070247443" | "20070279395" | "20080074398" | "20080136787" | "20080158167" | "20080158181" | "20080264699" | "20080277259" | "20080309633" | "20080309635" | "20090002337" | "20090019344" | "20090054107" | "20090091551" | "20090236151" | "20090242283" | "20090267902" | "20090303189" | "20090309850" | "20090314621" | "20090315854" | "20100149108" | "20100328248" | "4304976" | "4659874" | "5194862" | "5317919" | "5459463" | "5483261" | "5488204" | "5825352" | "5835079" | "5880411" | "6188391" | "6310610" | "6323846" | "6690387" | "7015894" | "7129935" | "7138686" | "7184064" | "7538760" | "7663607" | "8120371" | "8223133" | "8319747").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:27
S410	0	("8593410").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:27

BOE Ex. 1002, p. 379
BOE v. Paneltouch
IPR2025-01245

S411	0	(12/500911).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:27
S412	0	("20030132922" | "20040183833" | "20060026521" | "20060097991" | "20060114650" | "20060132462" | "20060197753" | "20070273663" | "20080157867" | "20080158172" | "20080309625" | "20080309628" | "20090009483" | "20100060589" | "20100060593" | "20120019467" | "20120299880" | "5483261" | "5488204" | "5526294" | "5650801" | "5766463" | "5816225" | "5825352" | "5835079" | "5880411" | "5920309" | "6075520" | "6188391" | "6310610" | "6323846" | "6327011" | "6690387" | "7015894" | "7184064" | "7663607" | "8237667" | "8479122").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:27
S413	0	("8592697").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:27
S414	0	(12/283423).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:27
S415	0	("20060026521" | "20060097991" | "20060197753" | "20080157867" | "20080309625" | "20090009483" | "20100060589" | "5483261" | "5488204" | "5825352" | "5835079" | "5880411" | "6188391" | "6310610" | "6323846" | "6690387" | "7015894" |	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:27

BOE Ex. 1002, p. 380
BOE v. Paneltouch
IPR2025-01245

		"7184064" | "7663607").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1				
S416	0	("8237667").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:27
S417	0	(12/283435).APP. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:27
S418	0	("20060026521" | "20060097991" | "20060197753" | "20070257890" | "20080158175" | "20100059295" | "20100085325" | "5183040" | "5359156" | "5483261" | "5488204" | "5796389" | "5825352" | "5835079" | "5880411" | "6161042" | "6188391" | "6310610" | "6323846" | "6535147" | "6690387" | "6967606" | "7015894" | "7184064" | "7663607").PN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:27
S419	0	("8031094").URPN. and touch$3 same panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USPAT	OR	OFF	2015/05/03 21:27
S420	0	(12/558374).APP. and touch$3 same	US-PGPUB;	OR	OFF	2015/05/03

BOE Ex. 1002, p. 381
BOE v. Paneltouch
IPR2025-01245

		panel$1 same display$3 and (first and second) same substrate$1 and (outside$1 or eternal$1) same area$1 same external same terminal$1 same form$3 and (first and second) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular) and polariz$6 same film$1	USOCR			21:27
S421	25	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same sens$3 same (line$1 or electrode$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:29
S422	0	("2015/0055286").URPN.	USPAT	OR	OFF	2015/05/03 21:30
S423	0	(14/461950).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:30
S424	0	("2015/0035777").URPN.	USPAT	OR	OFF	2015/05/03 21:30
S425	0	(14/444799).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:30
S426	0	("2015/0023030").URPN.	USPAT	OR	OFF	2015/05/03 21:30
S427	0	(14/331453).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:30
S428	0	("2015/0015532").URPN.	USPAT	OR	OFF	2015/05/03 21:30
S429	0	(14/102385).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:30
S430	0	("2015/0009128").URPN.	USPAT	OR	OFF	2015/05/03 21:30
S431	0	(14/311842).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:30
S432	0	("2014/0361980").URPN.	USPAT	OR	OFF	2015/05/03 21:30
S433	0	(14/284793).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:31
S434	0	("2014/0203277").URPN.	USPAT	OR	OFF	2015/05/03 21:31
S435	0	(14/156892).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:31
S436	0	("2014/0192277").URPN.	USPAT	OR	OFF	2015/05/03 21:31
S437	0	(14/204949).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:31
S438	0	("2014/0175433").URPN.	USPAT	OR	OFF	2015/05/03 21:31
S439	0	(14/134284).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:31
S440	0	("2014/0162057").URPN.	USPAT	OR	OFF	2015/05/03 21:31
S441	0	(14/175358).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:31

BOE Ex. 1002, p. 382
BOE v. Paneltouch
IPR2025-01245

S442	0	("2014/0110708").URPN.	USPAT	OR	OFF	2015/05/03 21:31
S443	0	(14/062481).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:31
S444	0	("2014/0110707").URPN.	USPAT	OR	OFF	2015/05/03 21:31
S445	0	(14/061510).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:31
S446	0	("2014/0110705").URPN.	USPAT	OR	OFF	2015/05/03 21:32
S447	0	(14/060925).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:32
S448	1	("2014/0028584").URPN.	USPAT	OR	OFF	2015/05/03 21:32
S449	0	(13/717617).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:32
S450	0	("2014/0009429").URPN.	USPAT	OR	OFF	2015/05/03 21:32
S451	0	(13/541501).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:32
S452	0	("2013/0293096").URPN.	USPAT	OR	OFF	2015/05/03 21:32
S453	1	(13/888574).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:32
S454	0	("2013/0278511").URPN.	USPAT	OR	OFF	2015/05/03 21:32
S455	0	(13/541207).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:32
S456	0	("2013/0215077").URPN.	USPAT	OR	OFF	2015/05/03 21:32
S457	0	(13/761795).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:33
S458	0	("2013/0162549").URPN.	USPAT	OR	OFF	2015/05/03 21:33
S459	0	(13/463528).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:33
S460	0	("2013/0057495").URPN.	USPAT	OR	OFF	2015/05/03 21:33
S461	0	(13/600244).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:33
S462	2	("2010/0097344").URPN.	USPAT	OR	OFF	2015/05/03 21:33
S463	0	(12/434341).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:33
S464	79	("2008/0266273").URPN.	USPAT	OR	OFF	2015/05/03 21:33
S465	0	(12/109140).APP.	USPAT; USOCR	OR	OFF	2015/05/03 21:33
S466	6	("20010008433" | "20040075779" | "20040239641" | "20120031746" | "20120306777" | "20130181910").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:36
S467	0	("8946985").URPN.	USPAT	OR	OFF	2015/05/03 21:36

BOE Ex. 1002, p. 383
BOE v. Paneltouch
IPR2025-01245

S468	1	(13/888574).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:36
S469	9	("20020180910" | "20030067448" | "20030067449" | "20040238726" | "20050184971" | "20060001655" | "20060044279" | "20060250373" | "20070002192").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:37
S470	2	("7948179").URPN.	USPAT	OR	OFF	2015/05/03 21:37
S471	1	(12/773262).APP.	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:38
S472	0	("2014/0028584").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT	OR	OFF	2015/05/03 21:39
S473	0	(13/888574).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT; USOCR	OR	OFF	2015/05/03 21:39
S474	0	("2010/0097344").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT	OR	OFF	2015/05/03 21:39
S475	0	("2008/0266273").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1	USPAT	OR	OFF	2015/05/03 21:39

BOE Ex. 1002, p. 384
BOE v. Paneltouch
IPR2025-01245

		or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S476	0	("20010008433" | "20040075779" | "20040239641" | "20120031746" | "20120306777" | "20130181910").PN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:39
S477	0	(13/888574).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:39
S478	0	("20020180910" | "20030067448" | "20030067449" | "20040238726" | "20050184971" | "20060001655" | "20060044279" | "20060250373" | "20070002192").PN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same	US-PGPUB; USPAT; USOCR	OR	OFF	2015/05/03 21:39

BOE Ex. 1002, p. 385
BOE v. Paneltouch
IPR2025-01245

		display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S479	0	("7948179").URPN. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT	OR	OFF	2015/05/03 21:39
S480	0	(12/773262).APP. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USOCR	OR	OFF	2015/05/03 21:39
S481	8	"2002342014"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:41
S482	0	"2002342014" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:41
S483	0	"20010043291" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or	US-PGPUB; USPAT; USOCR;	OR	OFF	2015/05/03 21:54

BOE Ex. 1002, p. 386
BOE v. Paneltouch
IPR2025-01245

		film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S484	0	"20100085322" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:54
S485	0	"20060274049" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:54
S486	0	"20050190338" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:54
S487	0	"20080030483" and touch$3 same panel$1 same display$3 and circular	US-PGPUB; USPAT;	OR	OFF	2015/05/03 21:54

BOE Ex. 1002, p. 387
BOE v. Paneltouch
IPR2025-01245

		same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S488	0	"20090128518" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:54
S489	0	"20050046622" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:54
S490	0	"20090143141" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:54
S491	0	"20090086318" and touch$3 same	US-PGPUB;	OR	OFF	2015/05/03

BOE Ex. 1002, p. 388
BOE v. Paneltouch
IPR2025-01245

		panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			21:54
S492	0	"20090046077" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:56
S493	0	"20090096763" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:56
S494	0	"20050139398" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:56

BOE Ex. 1002, p. 389
BOE v. Paneltouch
IPR2025-01245

S495	0	"20100033443" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:56
S496	0	"20090167721" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:56
S497	0	"20100085326" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:56
S498	0	"20110069036" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:56

BOE Ex. 1002, p. 390
BOE v. Paneltouch
IPR2025-01245

		order$3				
S499	0	"20020047969" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:56
S500	0	"20060274047" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:57
S501	0	"20030090803" and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 21:57
S502	0	"6,078,274".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:00

BOE Ex. 1002, p. 391
BOE v. Paneltouch
IPR2025-01245

		same plate$1 same arrang$3 same order$3				
S503	0	"8,072,436".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:00
S504	0	"7,868,957".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:00
S505	0	"8,125,466".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:00
S506	0	"6,814,452".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:00

BOE Ex. 1002, p. 392
BOE v. Paneltouch
IPR2025-01245

		panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S507	0	"6,562,718".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:00
S508	0	"8,228,453".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:00
S509	0	"6,814,452".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:00
S510	0	"7,906,216".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:01

BOE Ex. 1002, p. 393
BOE v. Paneltouch
IPR2025-01245

		display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3				
S511	0	"7,535,462".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:01
S512	0	"7,593,004".pn. and touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:01
S513	0	touch$3 same panel$1 same display$3 and circul$3 same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same ((touch$3 same sens$3) or (coordinate$1 same (detect$4 or determin$4))) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:05
S514	2	touch$3 same panel$1 same display$3 and (OLED or (organic same emit$4 same display$3)) same touch$3 same panel$1 same circul$3 same polariz$3 same plate$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:05
S515	6	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or	US-PGPUB; USPAT; USOCR;	OR	OFF	2015/05/03 22:07

BOE Ex. 1002, p. 394
BOE v. Paneltouch
IPR2025-01245

		(organic same light$4 same emit$4 same display$3)) and (first and second) same touch$3 same panel$3 same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S516	6	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same light$4 same emit$4 same display$3)) and (first and second) same (touch$3 same (panel$3 or send$3)) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:08
S517	7	touch$3 same panel$1 same display$3 and circular same polariz$3 same (plate$1 or film$1) and (OLED or (organic same ((light$4 same emit$4) or emit$4) same display$3)) and (first and second) same (touch$3 same (panel$3 or send$3)) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:09
S518	1	touch$3 same panel$1 same display$3 and (first and second) same (touch$3 same (panel$3 or send$3)) same (line$1 or electrode$1) same (othogonal$3 or travers$3 or perpendicular or intersect$4) and (OLED or (organic same ((light$4 same emit$4) or emit$4) same display$3)) same circul$3 same polariz$3 same (plate$1 or film$1) same touch$3 same panel$1 same arrang$3 same order$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/05/03 22:12

9/21/2015 7:23:44 AM
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BOE Ex. 1002, p. 395
BOE v. Paneltouch
IPR2025-01245

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)

127271 7590 09/28/2015
Lowe Hauptman & Ham, LLP
2318 Mill Road
Suite 1400
Alexandria, VA 22314

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.

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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.
14/451,769	08/05/2014	Takeshi Ookawara	1497.50463CC2	2038

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	12/28/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
DHARIA, PRABODH M	2693	345-174000

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,
(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.

1 Lowe Hauptman & Ham, LLP
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)

JAPAN DISPLAY INC. — Tokyo, Japan
Panasonic Liquid Crystal Display Co., Ltd. — 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 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.
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☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 071337 (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
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.
☐ Applicant asserting small entity status. See 37 CFR 1.27
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.
☐ Applicant changing to regular undiscounted fee 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 /Arimi Yamada/ Date 2015-12-28
Typed or printed name Arimi Yamada Registration No. 70156

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

BOE Ex. 1002, p. 396
BOE v. Paneltouch
IPR2025-01245

Electronic Patent Application Fee Transmittal

Application Number:	14451769
Filing Date:	05-Aug-2014
Title of Invention:	Display Device with Touch Panel
First Named Inventor/Applicant Name:	Takeshi Ookawara
Filer:	Arimi Yamada/Sunny HAN
Attorney Docket Number:	1497-50463CC2

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Utility Appl Issue Fee	1501	1	960	960
Publ. Fee- Early, Voluntary, or Normal	1504	1	0	0
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**960**

Electronic Acknowledgement Receipt

EFS ID:	24459804
Application Number:	14451769
International Application Number:	
Confirmation Number:	2038
Title of Invention:	Display Device with Touch Panel
First Named Inventor/Applicant Name:	Takeshi Ookawara
Customer Number:	127271
Filer:	Arimi Yamada/Sunny HAN
Filer Authorized By:	Arimi Yamada
Attorney Docket Number:	1497-50463CC2
Receipt Date:	28-DEC-2015
Filing Date:	05-AUG-2014
Time Stamp:	13:46:39
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$960
RAM confirmation Number	49
Deposit Account	071337
Authorized User	YAMADA, ARIMI
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 CFR 1.16 (National application filing, search, and examination fees) Charge any Additional Fees required under 37 CFR 1.17 (Patent application and reexamination processing fees)	

Charge any Additional Fees required under 37 CFR 1.19 (Document supply fees)

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	1497-50463CC2_IssueFeeTransmittal.pdf	191333 c44ed749e0908ed76e84e80c471380b7be135ccd	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	32098 5819b7e85b6faa19aa426138d5b183c45182e501	no	2
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<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.

<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.

<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.

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/451,769	02/02/2016	9250758	1497-50463CC2	2038

127271 7590 01/13/2016

Hauptman Ham, LLP
2318 Mill Road
Suite 1400
Alexandria, VA 22314

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):

Takeshi Ookawara, Mobara, JAPAN;
Japan Display Inc., Tokyo, JAPAN;
Noriharu Matsudate, Kujukuri, JAPAN;
Panasonic Liquid Crystal Display Co., Ltd., Hyogo-ken, JAPAN;

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BOE Ex. 1002, p. 401
BOE v. Paneltouch
IPR2025-01245