AO 120 (Rev. 08/10)

TO:	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
Mail Stop 8 **Director of the U.S. Patent and Trademark Office** **P.O. Box 1450** **Alexandria, VA 22313-1450**	

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Eastern District of Texas on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
2:21-cv-371	9/29/2021	Eastern District of Texas

PLAINTIFF	DEFENDANT
MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.	SAMSUNG ELECTRONICS CO., LTD. and SAMSUNG ELECTRONICS AMERICA, INC.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	8,836,842	9/16/2014	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.
2	8,881,053	11/4/2014	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.
3	9,134,756	9/15/2015	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.
4	9,310,834	4/12/2016	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.
5	8,854,834	10/7/2014	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.

see attached

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT
ORDERED that all claims asserted by Multifold against Samsung and all claims asserted by Samsung against Multifold are DISMISSED WITH PREJUDICE.

CLERK	(BY) DEPUTY CLERK	DATE
David A. O'Toole	CH	**6/2/22**

Copy 1—Upon initiation of action, mail this copy to Director **Copy 3—Upon termination of action, mail this copy to Director**
Copy 2—Upon filing document adding patent(s), mail this copy to Director **Copy 4—Case file copy**

Continued

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
6	9,665,126	05/30/2017	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.
7	8,842,080	09/23/2014	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.
8	9,727,205	08/08/2017	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.
9	9,058,153	06/16/2015	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.
10	10,203,848	02/12/2019	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.
11	8,875,050	10/28/2014	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.
12	9,792,007	10/17/2017	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.
13	9,141,135	09/22/2015	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.
14	8,832,577	09/09/2014	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.
15	9,146,589	09/29/2015	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.
16	9,158,494	10/13/2015	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.
17	9,195,335	11/24/2015	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.

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DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

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Continued

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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see attached

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Continued

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16	9,158,494	10/13/2015	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.
17	9,195,335	11/24/2015	MULTIFOLD INTERNATIONAL INCORPORATED PTE. LTD.

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.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/627,498	09/16/2014	8836842	6583-282	1310

111285 7590 08/27/2014

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

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 41 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):

Sanjiv Sirpal, Oakville, CANADA;
Mohammed Selim, Oakville, CANADA;
John S. Visosky, Gormley, CANADA;
Z124, George Town, KY

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/627,498	09/26/2012	Sanjiv Sirpal	6583-282	1310

111285 7590 08/20/2014

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
HO, TUAN V

ART UNIT	PAPER NUMBER
2661	

NOTIFICATION DATE	DELIVERY MODE
08/20/2014	ELECTRONIC

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.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

flexpatents@sheridanross.com

Response to Rule 312 Communication	Application No.	Applicant(s)
	13/627,498	SIRPAL ET AL.
	Examiner	Art Unit
	TUAN HO	2661

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

1. ☒ The amendment filed on *12 August 2014* under 37 CFR 1.312 has been considered, and has been:

a) ☐ entered.

b) ☒ entered as directed to matters of form not affecting the scope of the invention.

c) ☐ disapproved because the amendment was filed after the payment of the issue fee.

Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) ☐ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.

/TUAN HO/
Primary Examiner, Art Unit 2661

Ex. 1002, p. 9
MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

OK TO ENTER: /T.H./ (08/15/2014)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	Group Art Unit: 2661
SIRPAL et al.	Confirmation No.: 1310
Serial No.: 13/627,498	Examiner: Tuan Ho
Filed: September 26, 2012	
Atty. File No.: 6583-282	
Entitled: "CAPTURE MODE OUTWARD FACING MODEs"	***Submitted Via EFS-Web***

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AFTER ALLOWANCE PURSUANT TO 37 CFR § 1.312

Dear Sir/Madam:

Applicants submit this Amendment After Allowance pursuant to 37 CFR § 1.312 in response to the Notice of Allowance and Fee(s) Due having a mailing date of May 12, 2014. An amendment may be entered after the mailing of a Notice of Allowance but prior to payment of the issue fee upon the recommendation of the primary examiner. Therefore, it is respectfully requested that the above-referenced application be amended as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page **2** of this paper.

Remarks/Arguments begin on page **6** of this paper.

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)

111285 7590 05/12/2014
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

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

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/627,498	09/26/2012	Sanjiv Sirpal	6583-282	1310

TITLE OF INVENTION: CAPTURE MODE OUTWARD FACING MODES

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	08/12/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
HO, TUAN V	2661	348-333010

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 Sheridan Ross P.C.
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: Z124

(B) RESIDENCE: (CITY and STATE OR COUNTRY): George Town, Cayman Islands

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 19-1970 (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 /Douglas W. Swartz/ Date August 12, 2014

Typed or printed name Douglas W. Swartz Registration No. 37,739

Ex. 1002, p. 11
MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

Electronic Patent Application Fee Transmittal

Application Number:	13627498
Filing Date:	26-Sep-2012
Title of Invention:	CAPTURE MODE OUTWARD FACING MODES
First Named Inventor/Applicant Name:	Sanjiv Sirpal
Filer:	Douglas W. Swartz/Amy Duarte
Attorney Docket Number:	6583-282

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl Issue Fee	1501	1	960	960
Extension-of-Time:				

Ex. 1002, p. 12
MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
			Total in USD ($)	**960**

Electronic Acknowledgement Receipt

EFS ID:	19842643
Application Number:	13627498
International Application Number:	
Confirmation Number:	1310
Title of Invention:	CAPTURE MODE OUTWARD FACING MODES
First Named Inventor/Applicant Name:	Sanjiv Sirpal
Customer Number:	111285
Filer:	Douglas W. Swartz/Amy Duarte
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-282
Receipt Date:	12-AUG-2014
Filing Date:	26-SEP-2012
Time Stamp:	14:40:40
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$960
RAM confirmation Number	874
Deposit Account	191970
Authorized User	

File Listing:

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

1		Rule_312_Amendment.pdf	147171 966dcaed80b369ee420c6f90bdad9fbad6a19121	yes	6

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Amendment after Notice of Allowance (Rule 312)	1	1
Claims	2	5
Applicant Arguments/Remarks Made in an Amendment	6	6

Warnings:

Information:

2	Issue Fee Payment (PTO-85B)	Issue-fee-transmittal.pdf	93661 fba0e1644ac72bbaf85d3effb67bf076745a4aa2	no	1

Warnings:

Information:

3	Fee Worksheet (SB06)	fee-info.pdf	30514 dec47ad237bb2e55764743312fe780ff6c9c64f6	no	2

Warnings:

Information:

Total Files Size (in bytes):	271346

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	Group Art Unit: 2661
SIRPAL et al.	Confirmation No.: 1310
Serial No.: 13/627,498	Examiner: Tuan Ho
Filed: September 26, 2012	
Atty. File No.: 6583-282	
Entitled: "CAPTURE MODE OUTWARD FACING MODEs"	***Submitted Via EFS-Web***

Mail Stop Issue Fee
Commissioner for Patents
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Amendments to the Claims are reflected in the listing of claims which begins on page **2** of this paper.

Remarks/Arguments begin on page **6** of this paper.

AMENDMENTS TO THE CLAIMS

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

Listing of Claims

1. (Previously Presented) A method, comprising:

providing a device having at least first and second screens;

receiving user interface input to execute an image capture function;

determining one or more of an image capture function configuration, a device orientation, and a device state; and

based on one or more of the image capture function configuration, the device orientation, and the device state, entering one of one or more image capture modes, wherein in each image capture mode a display on the first or second screen is different.

2. (Original) The method of claim 1, wherein the image captures function is configured to capture an outward-facing image.

3. (Original) The method of claim 2, wherein the device is in a closed state.

4. (Original) The method of claim 3, wherein the device is in a landscape or portrait orientation.

5. (Original) The method of claim 4, wherein a lens is associated with either the first or second screen.

6. (Original) The method of claim 5, wherein, in the image capture mode, the device does not display an image on a first screen and displays a preview on a second screen.

7. (Original) The method of claim 5, wherein the first screen is disabled and does not receive user interface input while in the image capture mode.

Ex. 1002, p. 17
MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

8. (Original) The method of claim 5, wherein, in the image capture mode, the device displays a visual indicia on a first screen and displays a preview on a second screen.

9. (Original) The method of claim 5, wherein, in the image capture mode, the device displays a preview on a first screen and a second screen.

10. (Original) The method of claim 5, wherein in one or more controls are presented on a second screen.

11. (Original) A device, comprising:

a first screen, the first screen including a first gesture capture region;

a second screen, wherein the second screen faces an opposite direction from the first screen when the device is closed, and wherein an image capture lens is associated with the second screen;

a memory;

a processor in communication with the memory, the first screen, and the second screen, the processor operable to:

receive user interface input to execute an image capture function;

determine one or more of an image capture function configuration, a device orientation, and a device state;

based on one or more of the image capture function configuration, the device orientation, and the device state, enter one of one or more image capture modes, wherein in each image capture mode a display on the first or second screen is different.

12. (Original) The device of claim 11, wherein the image capture function is configured to capture an outward-facing image, wherein the device is in a closed state, and wherein the device is in a landscape orientation.

13. (Original) The device of claim 11, wherein the image capture mode is one of a full and disabled mode, a full and static mode, or a full and live mode, wherein in the full and disabled mode, the first screen displays a preview of an image to be captured and the second screen is disabled, wherein in the full and static mode, the first screen displays a preview of an

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image to be captured and the second screen is displays a static image, and wherein in the full and live mode, the first screen displays a first preview of an image to be captured and the second screen displays a second preview of the image to be captured.

14. (Original) The device of claim 13, wherein the first preview and the second preview have different display orientations.

15. (Original) The device of claim 14, wherein user interface input for the second screen is disabled.

16. (Currently Amended) A non-transitory computer readable medium having stored thereon computer-executable instructions, the computer executable instructions causing a processor of a device to execute a method for providing a user interface, the computer-executable instructions comprising:

instructions to receive user interface input to execute an image capture function;

instructions to determine one or more of an image capture function configuration, a device orientation, and a device state, [[,]]wherein the device has at least first and second screens, wherein the device is in a closed state, wherein, in the closed state, the first and second screens face opposite directions, wherein the image capture function is configured to capture an outward-facing image, wherein the device is in a landscape orientation, and wherein an image capture lens is associated with the second screen;

based on one or more of the image capture function configuration, the device orientation, and the device state, instructions to enter one of one or more image capture modes, wherein in each image capture mode a display on the first or second screen is different, wherein the image capture mode is one of a full and disabled mode, a full and static mode, or a full and live mode.

17. (Previously Presented) The non-transitory computer readable medium of claim 16, wherein in the full and disabled mode, the first screen displays a first preview of an image to be captured and the second screen is disabled, wherein in the full and static mode, the first screen displays a first preview of an image to be captured and the second screen is displays a static image, and wherein in the full and live mode, the first screen displays a first preview of

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an image to be captured and the second screen displays a second preview of the image to be captured.

18. (Previously Presented) The non-transitory computer readable medium of claim 17, wherein the first preview and the second preview have different display orientations.

19. (Previously Presented) The non-transitory computer readable medium of claim 17, wherein user interface input for the second screen is disabled.

20. (Previously Presented) The non-transitory computer readable medium of claim 16, wherein the image is one of a picture and a video.

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REMARKS/ARGUMENTS

The claim amendment to Claim 16 corrects a typographical error and requires no additional search or examination, and the claims as amended are patentable for the same reasons as the independent claims from which they depend. While it is believed no fees are due with the filing of this paper, please charge any deficiency or credit any overpayment to Deposit Account 19-1970.

Accordingly, Applicant believes that the requirements of 37CFR§1.312 and MPEP§714.16 have been satisfied and entry of this amendment is respectfully requested.

Respectfully submitted,

SHERIDAN ROSS P.C.

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Date: August 12, 2014

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MOTOROLA et al. v. MULTIFOLD
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/627,498	09/26/2012	Sanjiv Sirpal	6583-282	1310

111285 7590 08/06/2014

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
HO, TUAN V

ART UNIT	PAPER NUMBER
2661	

NOTIFICATION DATE	DELIVERY MODE
08/06/2014	ELECTRONIC

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.

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flexpatents@sheridanross.com

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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
13/627,498	26 September, 2012	SIRPAL ET AL.	6583-282

		EXAMINER	
Sheridan Ross P.C. 1560 Broadway Suite 1200 Denver, CO 80202		TUAN HO	
		ART UNIT	PAPER
		2661	20140801

DATE MAILED:

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Commissioner for Patents

IDS's filed on 7/22/14 have been considered.

/TUAN HO/
Primary Examiner
Art Unit: 2661

PTO-90C (Rev.04-03)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/627,498
				Filing Date	September 26, 2012
				First Named Inventor	Sanjiv Sirpal
				Art Unit	2661
				Examiner Name	Tuan V. Ho
Sheet	1	of	1	Attorney Docket Number	6583-282

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
	1	2007/0035616	02/15/2007	Lee et al.	
	2	2008/0059888	03/06/2008	Dunko	
	3	2009/0278806	11/12/2009	Duarte et al.	
	4	2009/0298548	12/03/2009	Kim et al.	
	5	2010/0039350	02/18/2010	Wakefield et al.	
	6	2010/0060664	03/11/2010	Kilpatrick, II et al.	
	7	2010/0173678	07/08/2010	Kim et al.	
	8	2010/0227650	09/09/2010	Kim et al.	
	9	2011/0003616	01/06/2011	Gorsica et al.	
	10	2011/0050975	03/03/2011	Chung et al.	
	11	2011/0134269	06/09/2011	Kim	
	12	2011/0243397	10/06/2011	Watkins et al.	
	13	2011/0267530	11/03/2011	Chun	
	14	2011/0317031	12/29/2011	Honda	
	15	2012/0242599	09/27/2012	Seo et al.	
	16	2013/0076961	03/28/2013	Sirpal	
	17	2013/0086492	04/04/2013	Sirpal 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]

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	18	Official Action for U.S. Patent Application No. 13/627,400, mailed Jan. 17, 2014 (Attorney's Ref. No. 6583-99) 12 pages
	19	Official Action for U.S. Patent Application No. 13/627,453 mailed Feb. 4, 2014 (Attorney Ref. No. 6583-281), 14 pages.

Examiner Signature	/Tuan Ho/ (08/01/2014)	Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/627,498
				Filing Date	September 26, 2012
				First Named Inventor	Sanjiv Sirpal
				Art Unit	2661
				Examiner Name	Tuan V. Ho
Sheet	1	of	1	Attorney Docket Number	6583-282

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
	1	2005/0212942	09/29/2005	Sakai	
	2	2007/0057866	03/15/2007	Lee et al.	
	3	2007/0249389	10/25/2007	Hotta	
	4	2008/0231740	09/25/2008	McIntyre et al.	

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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]

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	5	Official Action for U.S. Patent Application No. 13/627,422 mailed May 9, 2014 (Attorney Ref. No. 6583-168), 19 pages.

Examiner Signature	/Tuan Ho/ (08/01/2014)	Date Considered	

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/627,498
				Filing Date	September 26, 2012
				First Named Inventor	Sanjiv Sirpal
				Art Unit	2661
				Examiner Name	Tuan V. Ho
Sheet	1	of	1	Attorney Docket Number	6583-282

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
	1	2005/0212942	09/29/2005	Sakai	
	2	2007/0057866	03/15/2007	Lee et al.	
	3	2007/0249389	10/25/2007	Hotta	
	4	2008/0231740	09/25/2008	McIntyre 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]

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	5	Official Action for U.S. Patent Application No. 13/627,422 mailed May 9, 2014 (Attorney Ref. No. 6583-168), 19 pages.

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Electronic Patent Application Fee Transmittal

Application Number:	13627498
Filing Date:	26-Sep-2012
Title of Invention:	CAPTURE MODE OUTWARD FACING MODES
First Named Inventor/Applicant Name:	Sanjiv Sirpal
Filer:	Douglas W. Swartz/David Voegtle
Attorney Docket Number:	6583-282

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt

EFS ID:	19645452
Application Number:	13627498
International Application Number:	
Confirmation Number:	1310
Title of Invention:	CAPTURE MODE OUTWARD FACING MODES
First Named Inventor/Applicant Name:	Sanjiv Sirpal
Customer Number:	111285
Filer:	Douglas W. Swartz/David Voegtle
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-282
Receipt Date:	22-JUL-2014
Filing Date:	26-SEP-2012
Time Stamp:	13:28:42
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$180
RAM confirmation Number	10958
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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	6583-168_OA_05-09-2014.pdf	621889 ffe0118280d0334ffc17d6b2d4f9c754c1acfa2b	no	19
Warnings:					
Information:					
2		IDS_02.pdf	356358 3b35689c04f32361d47640bc10b2163e3187b4a0	yes	4

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Transmittal Letter	1	3
Information Disclosure Statement (IDS) Form (SB08)	4	4

Warnings:					
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3	Fee Worksheet (SB06)	fee-info.pdf	30716 f0814a19c9996b97311933118a32eb0de6669bc9	no	2
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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.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 2661
Sanjiv Sirpal	)	Confirmation No.: 1310
Serial No.: 13/627,498	)	Examiner: Tuan V. Ho
Filed: September 26, 2012	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-282	)	
Entitled: "Capture Mode Outward Facing Modes"	)	*Electronically Submitted*

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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The references cited on attached Form PTO/SB08 are being called to the attention of the Examiner.

☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.

☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.

☒ Copies of the cited U.S. patents/patent application publications are not enclosed in accordance with 37 C.F.R. § 1.98(a).

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☐ To the best of applicants' belief, the pertinence of the foreign-language references is believed to be summarized in the attached English abstracts and/or in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☒ Examiner's attention is drawn to the following related applications:

- Serial No. 13/627,400 filed 09/26/2012 (Attorney Ref. No. 6583-99)
- Serial No. 13/628,665 filed 09/27/2012 (Attorney Ref. No. 6583-285)

☐ Other:_____

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence

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of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

☐	**37 CFR 1.97(b)**: No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfied by one of the following conditions ("X" indicates satisfaction): ☐ Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application, or ☐ Before the mailing date of a first Office Action on the merits, or ☐ Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.
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Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☒ The undersigned certifies that:

☐ Each item of information contained in the Information Disclosure Statement submitted herewith was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

OR

☒ No item of information contained in the Information Disclosure Statement submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS P.C.

DWS

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Denver, Colorado 80202-5141
(303) 863-9700

Date: July 18, 2014

Ex. 1002, p. 33
MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/627,498
				Filing Date	September 26, 2012
				First Named Inventor	Sanjiv Sirpal
				Art Unit	2661
				Examiner Name	Tuan V. Ho
Sheet	1	of	1	Attorney Docket Number	6583-282

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
	1	2007/0035616	02/15/2007	Lee et al.	
	2	2008/0059888	03/06/2008	Dunko	
	3	2009/0278806	11/12/2009	Duarte et al.	
	4	2009/0298548	12/03/2009	Kim et al.	
	5	2010/0039350	02/18/2010	Wakefield et al.	
	6	2010/0060664	03/11/2010	Kilpatrick, II et al.	
	7	2010/0173678	07/08/2010	Kim et al.	
	8	2010/0227650	09/09/2010	Kim et al.	
	9	2011/0003616	01/06/2011	Gorsica et al.	
	10	2011/0050975	03/03/2011	Chung et al.	
	11	2011/0134269	06/09/2011	Kim	
	12	2011/0243397	10/06/2011	Watkins et al.	
	13	2011/0267530	11/03/2011	Chun	
	14	2011/0317031	12/29/2011	Honda	
	15	2012/0242599	09/27/2012	Seo et al.	
	16	2013/0076961	03/28/2013	Sirpal	
	17	2013/0086492	04/04/2013	Sirpal 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]

NON-PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	18	Official Action for U.S. Patent Application No. 13/627,400, mailed Jan. 17, 2014 (Attorney's Ref. No. 6583-99) 12 pages
	19	Official Action for U.S. Patent Application No. 13/627,453 mailed Feb. 4, 2014 (Attorney Ref. No. 6583-281), 14 pages.

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.

Electronic Acknowledgement Receipt

EFS ID:	19645631
Application Number:	13627498
International Application Number:	
Confirmation Number:	1310
Title of Invention:	CAPTURE MODE OUTWARD FACING MODES
First Named Inventor/Applicant Name:	Sanjiv Sirpal
Customer Number:	111285
Filer:	Douglas W. Swartz/David Voegtle
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-282
Receipt Date:	22-JUL-2014
Filing Date:	26-SEP-2012
Time Stamp:	13:38:16
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	Non Patent Literature	6583-99_OA_01-17-2014.pdf	391637 df49bcccc867836729db0b7e2a32bf02c83de8de	no	12

Warnings:	
Information:	

2	Non Patent Literature	6583-281_OA_02-04-2014.pdf	434419 9784932438 84bd67ea0021dff63e3a3b8705a3a9	no	14
Warnings:					
Information:					
3		IDS_03.pdf	389211 d2bfb2fea749c29ebbc9cf1fd7ae776c2366966a	yes	4

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal Letter	1	3
	Information Disclosure Statement (IDS) Form (SB08)	4	4

Warnings:	
Information:	
Total Files Size (in bytes):	1215267

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 2661
Sanjiv Sirpal	)	Confirmation No.: 1310
Serial No.: 13/627,498	)	Examiner: Tuan V. Ho
Filed: September 26, 2012	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-282	)	
Entitled: "Capture Mode Outward Facing Modes"	)	*Electronically Submitted*

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

The references cited on attached Form PTO/SB08 are being called to the attention of the Examiner.

☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.

☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.

☒ Copies of the cited U.S. patents/patent application publications are not enclosed in accordance with 37 C.F.R. § 1.98(a).

☐ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. § 1.98(d), because the references were cited by or submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

☐ To the best of applicants' belief, the pertinence of the foreign-language references is believed to be summarized in the attached English abstracts and/or in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☐ Examiner's attention is drawn to the following related applications:

Serial No. _____ filed _____ (Attorney Ref. No. _____)

Serial No. _____ filed _____ (Attorney Ref. No. _____)

☐ Other:_____

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence

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of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

☐	**37 CFR 1.97(b)**: No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfied by one of the following conditions ("X" indicates satisfaction): ☐ Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application, or ☐ Before the mailing date of a first Office Action on the merits, or ☐ Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.
☐	**37 CFR 1.97(c)**: The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of any one of the following conditions: (1) a final action under 37 C.F.R. 1.113, or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. This Information Disclosure Statement is accompanied by: ☐ A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. OR ☐ Please charge Deposit Account 19-1970 in the amount of $180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account 19-1970.
☐	**37 CFR 1.97(d)**: This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c). ☐ This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) AND ☐ Applicants hereby requests consideration of the reference(s) disclosed herein. Please charge Deposit Account 19-1970 in the amount of $180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.

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Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☐ The undersigned certifies that:

☐ Each item of information contained in the Information Disclosure Statement submitted herewith was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

OR

☐ No item of information contained in the Information Disclosure Statement submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS P.C.

DWS

By: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: July 18, 2014

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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

111285 7590 05/12/2014

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
HO, TUAN V

ART UNIT	PAPER NUMBER
2661	

DATE MAILED: 05/12/2014

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/627,498	09/26/2012	Sanjiv Sirpal	6583-282	1310

TITLE OF INVENTION: CAPTURE MODE OUTWARD FACING MODES

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	08/12/2014

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

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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)

111285 7590 05/12/2014
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

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

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/627,498	09/26/2012	Sanjiv Sirpal	6583-282	1310

TITLE OF INVENTION: CAPTURE MODE OUTWARD FACING MODES

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	08/12/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
HO, TUAN V	2661	348-333010

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. _____

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UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/627,498	09/26/2012	Sanjiv Sirpal	6583-282	1310

111285 7590 05/12/2014

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER	
HO, TUAN V	

ART UNIT	PAPER NUMBER
2661	

DATE MAILED: 05/12/2014

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.

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

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

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 13/627,498	Applicant(s) SIRPAL ET AL.	
	Examiner TUAN HO	Art Unit 2661	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 *Amendments filed on 3/31/14*.
   ☐ 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 *1-20*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov .
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

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

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

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

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

/TUAN HO/
Primary Examiner
Art Unit: 2661

Issue Classification

Application/Control No.	Applicant(s)/Patent Under Reexamination
13627498	SIRPAL ET AL.
Examiner	**Art Unit**
TUAN HO	2661

CPC										
Symbol									**Type**	**Version**
G06F		1	/	1616					I	2013-01-01
H04M		1	/	0266					I	2013-01-01
G06F		3	/	1438					A	2013-01-01
H05K		7	/	02					I	2013-01-01
H05K		5	/	0226					I	2013-01-01
H05K		5	/	0017					I	2013-01-01
G06F		3	/	041					I	2013-01-01
H05K		13	/	046					I	2013-01-01
E05D		3	/	12					I	2013-01-01
G06F		3	/	0483					I	2013-01-01
G02B		6	/	0001					I	2013-01-01
H04N		5	/	44591					I	2013-01-01
G06F		1	/	1601					I	2013-01-01
G06F		3	/	0481					I	2013-01-01
G06F		3	/	04897					I	2013-01-01
G06F		3	/	1446					A	2013-01-01
H05K		7	/	1452					I	2013-01-01
G06F		9	/	4443					I	2013-01-01
H05K		5	/	04					I	2013-01-01
G06F		1	/	1641					I	2013-01-01
G06F		3	/	04883					I	2013-01-01
H05K		13	/	00					I	2013-01-01
B29D		11	/	00673					I	2013-01-01
G06F		1	/	1637					I	2013-01-01
G06F		9	/	44					F	2013-01-01
G09G		5	/	34					I	2013-01-01
G09G		1	/	00					I	2013-01-01
G06T		3	/	00					I	2013-01-01
G06F		3	/	1423					I	2013-01-01
G06F		3	/	0412					I	2013-01-01
G09G		5	/	00					I	2013-01-01

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 20	
/TUAN HO/ Primary Examiner.Art Unit 2661 (Primary Examiner)	05/06/2014 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1B

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13627498	SIRPAL ET AL.
	Examiner	**Art Unit**
	TUAN HO	2661

G06F		3	/	01	I	2013-01-01
G06F		3	/	048	I	2013-01-01

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

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 20	
/TUAN HO/ Primary Examiner.Art Unit 2661 (Primary Examiner)	05/06/2014 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1B

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13627498	SIRPAL ET AL.
	Examiner	**Art Unit**
	TUAN HO	2661

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
348	333.06	H	0	4	N	5 / 222 (2006.01.01)						
CROSS REFERENCE(S)												
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)											
348	333.05											

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/TUAN HO/ Primary Examiner.Art Unit 2661	05/06/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1B

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13627498	SIRPAL ET AL.
	Examiner	**Art Unit**
	TUAN HO	2661

☒ **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		17												
	2		18												
	3		19												
	4		20												
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	13														
	14														
	15														
	16														

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 20	
/TUAN HO/ Primary Examiner.Art Unit 2661 (Primary Examiner)	05/06/2014 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1B

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13627498	SIRPAL ET AL.
	Examiner	Art Unit
	TUAN HO	2661

CPC- SEARCHED		
Symbol	Date	Examiner
H04N 5/23293	1/27/14	TH
Updated	5/6/14	TH

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
348	333.01`-333.13, 333.06	1/27/14	TH
	Updated	5/6/14	TH

SEARCH NOTES		
Search Notes	Date	Examiner
EAST and Inventorship Search	1/27/14	TH

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	See Search History	1/27/14	TH

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13627498	SIRPAL ET AL.
	Examiner	**Art Unit**
	TUAN HO	2661

✓	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	01/27/2014	05/06/2014							
	1	✓	=							
	2	✓	=							
	3	✓	=							
	4	✓	=							
	5	✓	=							
	6	✓	=							
	7	✓	=							
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	13	✓	=							
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	16	✓	=							
	17	✓	=							
	18	✓	=							
	19	✓	=							
	20	✓	=							

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4515	348/333.01-333.13.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2014/05/06 09:38
L2	316	348/333.06.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2014/05/06 09:38
L3	315396	H04N 5/23293	US-PGPUB; USPAT; EPO; JPO	OR	ON	2014/05/06 09:38

5/6/2014 9:39:33 AM
C:\Users\tho\Documents\EAST\Workspaces\Default EAST Workspace (Flat Panel LANDSCAPE).wsp

Application Number	Application/Control No.	Applicant(s)/Patent under Reexamination	
	13/627,498	SIRPAL ET AL.	

Document Code - DISQ	Internal Document – DO NOT MAIL

TERMINAL DISCLAIMER	☒ APPROVED	☐ DISAPPROVED
Date Filed : March 31, 2014	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:

Henry D Jefferson

4 td's are approved

U.S. Patent and Trademark Office

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.: 13/627,498	)	Confirmation No.: 1310
Applicant: Sirpal et al.	)	TC/A.U.: 2661
Filed: September 26, 2012	)	Examiner: Ho, Tuan V.
Docket No.: 6583-282	)	
	)	***Filed Electronically***
FOR: "CAPTURE MODE OUTWARD FACING MODES"	)	

AMENDMENT AND RESPONSE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Applicants submit this Amendment and Response to address the Office Action having a mailing date of January 31, 2014. Applicant further submits herewith a Terminal Disclaimer and the associated fee. While Applicant believes no additional fees are due in connection with the filing of this response, the Commissioner is hereby authorized to charge any fees due, or credit any overpayments, to Deposit Account No. 19-1970.

Amendments to the Claims are shown in the listing of claims which begins on page 2 of this paper.

Remarks begin on page 6 of this paper.

Amendments to the Claims:

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

Listing of Claims:

1. (Currently Amended) A method, comprising:

providing a device having at least first and second screens;

receiving user interface input to execute an image capture function;

determining one or more of [[a]]an image capture function configuration, a device orientation, and a device state; and

based on one or more of the image capture function configuration, the device orientation, and the device state, entering one of one or more image capture modes, wherein in each image capture mode a display on the first or second screen is different.

2. (Original) The method of claim 1, wherein the image captures function is configured to capture an outward-facing image.

3. (Original) The method of claim 2, wherein the device is in a closed state.

4. (Original) The method of claim 3, wherein the device is in a landscape or portrait orientation.

5. (Original) The method of claim 4, wherein a lens is associated with either the first or second screen.

6. (Original) The method of claim 5, wherein, in the image capture mode, the device does not display an image on a first screen and displays a preview on a second screen.

7. (Original) The method of claim 5, wherein the first screen is disabled and does not receive user interface input while in the image capture mode.

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8. (Original) The method of claim 5, wherein, in the image capture mode, the device displays a visual indicia on a first screen and displays a preview on a second screen.

9. (Original) The method of claim 5, wherein, in the image capture mode, the device displays a preview on a first screen and a second screen.

10. (Original) The method of claim 5, wherein in one or more controls are presented on a second screen.

11. (Original) A device, comprising:

a first screen, the first screen including a first gesture capture region;

a second screen, wherein the second screen faces an opposite direction from the first screen when the device is closed, and wherein an image capture lens is associated with the second screen;

a memory;

a processor in communication with the memory, the first screen, and the second screen, the processor operable to:

receive user interface input to execute an image capture function;

determine one or more of an image capture function configuration, a device orientation, and a device state;

based on one or more of the image capture function configuration, the device orientation, and the device state, enter one of one or more image capture modes, wherein in each image capture mode a display on the first or second screen is different.

12. (Original) The device of claim 11, wherein the image capture function is configured to capture an outward-facing image, wherein the device is in a closed state, and wherein the device is in a landscape orientation.

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13. (Original) The device of claim 11, wherein the image capture mode is one of a full and disabled mode, a full and static mode, or a full and live mode, wherein in the full and disabled mode, the first screen displays a preview of an image to be captured and the second screen is disabled, wherein in the full and static mode, the first screen displays a preview of an image to be captured and the second screen is displays a static image, and wherein in the full and live mode, the first screen displays a first preview of an image to be captured and the second screen displays a second preview of the image to be captured.

14. (Original) The device of claim 13, wherein the first preview and the second preview have different display orientations.

15. (Original) The device of claim 14, wherein user interface input for the second screen is disabled.

16. (Currently Amended) A non-transitory computer readable medium having stored thereon computer-executable instructions, the computer executable instructions causing a processor of a device to execute a method for providing a user interface, the computer-executable instructions comprising:

instructions to receive user interface input to execute an image capture function;

instructions to determine one or more of an image capture function configuration, a device orientation, and a device state, , wherein the device has at least first and second screens, wherein the device is in a closed state, wherein, in the closed state, the first and second screens face opposite directions, wherein the image capture function is configured to capture an outward-facing image, wherein the device is in a landscape orientation, and wherein an image capture lens is associated with the second screen;

based on one or more of the image capture function configuration, the device orientation, and the device state, instructions to enter one of one or more image capture modes, wherein in each image capture mode a display on the first or second screen is

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different, wherein the image capture mode is one of a full and disabled mode, a full and static mode, or a full and live mode.

17. (Currently Amended) The non-transitory computer readable medium of claim 16, wherein in the full and disabled mode, the first screen displays a first preview of an image to be captured and the second screen is disabled, wherein in the full and static mode, the first screen displays a first preview of an image to be captured and the second screen is displays a static image, and wherein in the full and live mode, the first screen displays a first preview of an image to be captured and the second screen displays a second preview of the image to be captured.

18. (Currently Amended) The non-transitory computer readable medium of claim 17, wherein the first preview and the second preview have different display orientations.

19. (Currently Amended) The non-transitory computer readable medium of claim 17, wherein user interface input for the second screen is disabled.

20. (Currently Amended) The non-transitory computer readable medium of claim 16, wherein the image is one of a picture and a video.

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REMARKS

Interview

The undersigned Applicant's representative would like to thank the Examiner for discussing this case on February 11, 2014.

Claim Summary

The above-identified patent application has been reviewed in light of the Examiner's Action dated January 29, 2014. Claims 11-15 are allowed. Claims 1 and 16-20 are amended. No new claims have been added or cancelled. Therefore, claims 1-20 are present for examination. No new matter has been added by these amendments. Applicants respectfully request reconsideration of this application as amended.

Claim Objections

Claim 1 stands objected to for containing a typographical error. Claim 1 has been amended herein. Accordingly, the Applicant respectfully request withdrawal of the objections.

Claim Rejections under 35 U.S.C. § 101

Claim 16-20 have been rejected under 35 U.S.C. § 101 as being directed to non-statutory subject matter. Claims 16-20 have been amended to recite, "A non-transitory computer readable medium" per the Examiner's suggestion. Accordingly, the rejection under 35 U.S.C. § 101 should be reconsidered and withdrawn.

Claim Rejections under Non-Statutory Double Patenting

Claims 1-20 stand provisionally rejected under a nonstatutory double patenting in view of co-pending applications 13/627,422; 13/627,400; 13/627,453; and 13/628,665.

Applicant submits herewith a terminal disclaimer signed in compliance with 37 C.F.R. 1.321(b) and further requests withdrawal of the rejection thereto.

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Claim Rejections under 35 U.S.C. § 102

Claims 1-10 stand rejected under 35 U.S.C. § 102(b) as being unpatentable over U.S. Patent 7,626,630 to Nishino et al ("Nishino"). This rejection is respectfully traversed for at least the following reasons:

Nishino does not teach or suggest each and every claim feature of the independent claims

In accord with the discussions during the Examiner Interview of February 11, 2014, claim 1 has been amended herein to recite language similar to that of allowed claim 11.

Applicant submits that such an amendment similarly places claim 1 into allowable form and the Examiner has indicated in the interview that such an amendment would render claim 1 allowable over the art of record. Similarly, claims 2-10, which depend from claim 1, are also believed to be allowable for at least the reason that each recites an additional limitation of claim 1. Accordingly, withdrawal of the rejection and the allowance of claims 1-10 is respectfully requested.

Conclusion

Based on the foregoing, Applicant believes all pending claims are in condition for allowance and such disposition is respectfully requested. In the event that a telephone conversation would further prosecution and/or expedite allowance, the Examiner is invited to contact the undersigned.

RESPECTFULLY SUBMITTED,
SHERIDAN ROSS P.C.

Date: March 28, 2014

By: /Scott Weitzel/
Scott Weitzel
Reg. No. 54,534
Telephone: 720.376.6903

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PTO/AIA/25 (04-13)
Approved for use through 04/30/2013. OMB 0651-0031
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TERMINAL DISCLAIMER TO OBVIATE A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION

Docket Number (Optional): 6583-282

In re Application of: Sanjiv Sirpal et al.

Application No.: 13/627,498

Filed: September 26, 2012

For: CAPTURE MODE OUTWARD FACING MODES

The applicant, Z124, LLC, 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 any patent granted on pending **reference** Application Number 13/628,665, filed, September 27, 2012, as the term of any patent granted on said **reference** application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending **reference** application. 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 any patent granted on the **reference** application 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 any patent granted on the instant application that would extend to the expiration date of the full statutory term of any patent granted on said **reference** application, "as the term of any patent granted on said **reference** application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending **reference** application," in the event that: any such patent granted on the pending **reference** application 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 shortened by any terminal disclaimer filed prior to its grant.

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. 54534

/Scott Weitzel/	2014-03-31
Signature	Date
Scott Weitzel	
Typed or printed name	
Attorney	720-376-6903
Title	Telephone Number

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

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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 Patent Application Fee Transmittal

Application Number:	13627498
Filing Date:	26-Sep-2012
Title of Invention:	CAPTURE MODE OUTWARD FACING MODES
First Named Inventor/Applicant Name:	Sanjiv Sirpal
Filer:	Scott Weitzel/Genie Schnelle
Attorney Docket Number:	6583-282

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Statutory or Terminal Disclaimer	1814	1	160	160
Extension-of-Time:				

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Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
		Total in USD ($)		**160**

Electronic Acknowledgement Receipt

EFS ID:	18633148
Application Number:	13627498
International Application Number:	
Confirmation Number:	1310
Title of Invention:	CAPTURE MODE OUTWARD FACING MODES
First Named Inventor/Applicant Name:	Sanjiv Sirpal
Customer Number:	111285
Filer:	Scott Weitzel/Genie Schnelle
Filer Authorized By:	Scott Weitzel
Attorney Docket Number:	6583-282
Receipt Date:	31-MAR-2014
Filing Date:	26-SEP-2012
Time Stamp:	18:21:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$160
RAM confirmation Number	5655
Deposit Account	191970
Authorized User	

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		AMEND_01.pdf	129479 964365a79611cc70405f7f340aa60d3e03e65018	yes	7
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
	Claims		2	5	
	Applicant Arguments/Remarks Made in an Amendment		6	7	
Warnings:					
Information:					
2	Terminal Disclaimer Filed	TD_13627422.pdf	247237 2509944fed82ccc74a09297447e26b127fe5c3b7	no	2
Warnings:					
Information:					
3	Terminal Disclaimer Filed	TD_13627400.pdf	247236 c5c5eb652b314ffbd774a6d67e59a22c18beb8cc	no	2
Warnings:					
Information:					
4	Terminal Disclaimer Filed	TD_13627453.pdf	247244 537c6f2ec2655d854448b4ac48f7c38dd3b7e879	no	2
Warnings:					
Information:					
5	Terminal Disclaimer Filed	TD_13628665.pdf	247256 b979b32f87932b085fbccfff7bf37727beb9533d	no	2
Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	30400 b18ff19f3177ff2fbf2d78bea376404749b9bfd9	no	2
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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/25 (04-13)
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TERMINAL DISCLAIMER TO OBVIATE A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION

Docket Number (Optional): 6583-282

In re Application of: Sanjiv Sirpal et al.

Application No.: 13/627,498

Filed: September 26, 2012

For: CAPTURE MODE OUTWARD FACING MODES

The applicant, Z124, LLC, 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 any patent granted on pending **reference** Application Number 13/627,422, filed, September 26, 2012, as the term of any patent granted on said **reference** application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending **reference** application. 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 any patent granted on the **reference** application 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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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. 54534

/Scott Weitzel/	2014-03-31
Signature	Date
Scott Weitzel	
Typed or printed name	
Attorney	720-376-6903
Title	Telephone Number

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

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.

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

Privacy Act Statement

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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).
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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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TERMINAL DISCLAIMER TO OBVIATE A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION

Docket Number (Optional): 6583-282

In re Application of: Sanjiv Sirpal et al.

Application No.: 13/627,498

Filed: September 26, 2012

For: CAPTURE MODE OUTWARD FACING MODES

The applicant, Z124, LLC, 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 any patent granted on pending **reference** Application Number 13/627,453, filed, September 26, 2012, as the term of any patent granted on said **reference** application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending **reference** application. 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 any patent granted on the **reference** application 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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/Scott Weitzel/	2014-03-31
Signature	Date
Scott Weitzel	
Typed or printed name	
Attorney	720-376-6903
Title	Telephone Number

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PTO/AIA/25 (04-13)
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TERMINAL DISCLAIMER TO OBVIATE A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION

Docket Number (Optional): 6583-282

In re Application of: Sanjiv Sirpal et al.

Application No.: 13/627,498

Filed: September 26, 2012

For: CAPTURE MODE OUTWARD FACING MODES

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/Scott Weitzel/	2014-03-31
Signature	Date
Scott Weitzel	
Typed or printed name	
Attorney	720-376-6903
Title	Telephone Number

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PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/627,498	Filing Date 09/26/2012	☐ 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

		(Column 1)		(Column 2)	(Column 3)		
	03/31/2014	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
AMENDMENT	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X $80 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $420 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	**0**

		(Column 1)		(Column 2)	(Column 3)		
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
AMENDMENT	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
/MELINDA L. OLIVER/

This collection of information is required by 37 CFR 1.16. 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: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/627,498	09/26/2012	Sanjiv Sirpal	6583-282	1310

111285 7590 02/21/2014

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER	
HO, TUAN V	
ART UNIT	PAPER NUMBER
2661	

NOTIFICATION DATE	DELIVERY MODE
02/21/2014	ELECTRONIC

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.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

flexpatents@sheridanross.com

Applicant-Initiated Interview Summary	Application No.	Applicant(s)	
	13/627,498	SIRPAL ET AL.	
	Examiner	Art Unit	
	TUAN HO	2661	

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

(1) *TUAN HO*. (3)_____.

(2) *Mr. Weitzel*. (4)_____.

Date of Interview: *11 February 2014*.

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

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: _____.

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*.

Identification of prior art discussed: *N/A*.

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...)

Upon a telephone interview, Mr. Weitzel proosed an amendment of for claim 1; where proposed claim 1 includes allowed features of claim 11. The examiner agreed that proposed claim 1 now is overcome the prior art. .

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the 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

/TUAN HO/ Primary Examiner, Art Unit 2661	

Ex. 1002, p. 75
MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews
Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/627,498	09/26/2012	Sanjiv Sirpal	6583-282	1310

111285 7590 01/31/2014

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER	
HO, TUAN V	
ART UNIT	PAPER NUMBER
2661	

NOTIFICATION DATE	DELIVERY MODE
01/31/2014	ELECTRONIC

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.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

flexpatents@sheridanross.com

Office Action Summary	Application No. 13/627,498	Applicant(s) SIRPAL ET AL.	
	Examiner TUAN HO	Art Unit 2661	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 *9/26/12*.

☐ 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) *1-20* 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) *1-20* 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 *9/26/12* 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 _____.

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

4) ☐ Other: _____.

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

2) Claim 1 is objected to because of the following informalities: The term “a”, line 4 should be changed to “an”. Appropriate correction is required.

3) 35 U.S.C. 101 reads as follows:

> Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 16-20 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims 16-20 recite, *inter alia*, “A computer readable medium …” After close inspection, the Examiner respectfully notes that the disclosure, as a whole, does not specifically identify what may be included as a computer readable medium and what is not to be included as a computer readable medium.

An Examiner is obliged to give claims their broadest reasonable interpretation consistent with the specification during examination. The broadest reasonable interpretation of a claim drawn to a computer readable medium (also called machine readable medium and other such variations) typically covers forms of non-transitory tangible media and transitory propagating signals *per se* in view of the ordinary and customary meaning of computer readable media, particularly when the specification is silent. See MPEP 2111.01. When the broadest reasonable interpretation of a claim

covers a signal, *per se*, the claim must be rejected under 35 U.S.C. § 101 as covering non-statutory subject matter.

Therefore, given the silence of the disclosure and the broadest reasonable interpretation, the computer readable medium of the claim may include transitory propagating signals. As a result, the claim pertains to non-statutory subject matter.

However, the Examiner respectfully submits a claim drawn to such a computer readable medium that covers both transitory and non-transitory embodiments may be amended to narrow the claim to cover only statutory embodiments to avoid a rejection under 35 U.S.C. § 101 by adding the limitation "non-transitory" to the claim. Such an amendment would typically not raise the issue of new matter, even when the specification is silent because the broadest reasonable interpretation relies on the ordinary and customary meaning that includes signals *per se*. For additional information, please see the Patents' Official Gazette notice published February 23, 2010 (1351 OG 212).

4) 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.

5) Claims 1-20 are provisionally rejected on the ground of nonstatutory double

patenting as being unpatentable claims 1-20 of copending Application No. 13/627,422, 13/627,400, 13/627,453 and 13/628,665. Although the claims at issue are not identical, they are not patentably distinct from each other because claims 1-20 are obvious variants and encompassed by claims 1-20 of copending Application No. 13/627422, 13/627400, 13/627453 and 13/628665.

This is a provisional nonstatutory double patenting rejection because the patentably indistinct claims have not in fact been patented.

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

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-10 are rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by Nishino et al (US 7626630).

With regard to claim 1, Nishino et al discloses in Figs. 2A-3B, a digital camera that comprises the method, comprising: providing a device having at least first and second screens (camera body 1 includes first and second display units 1b and 1c, col. 5, line 35); receiving user interface input to execute an image capture function (operation button 6, col. 6, line 27); determining one or more of an image capture function configuration, a device orientation, and a device state (cols. 6 and 7); and based on one or more of the image capture function configuration, the device

orientation, and the device state, entering one of one or more image capture modes (cols. 6 and 7).

With regard to claim 2, Nishino et al discloses a digital camera that comprises the image capture function is configured to capture an outward-facing image (camera position as shown in Fig. 2A).

With regard to claim 3, Nishino et al discloses a digital camera that comprises the device is in a closed state (col. 7, lines 21-30).

With regard to claim 4, Nishino et al discloses a digital camera that comprises the device is in a landscape or portrait orientation (camera can be placed in different positions as shown in Figs. 5A and 5B).

With regard to claim 5, Nishino et al discloses a digital camera that comprises a lens is associated with either the first or second screen (lens 2 can take an object image and display in both units, col. 5, lines 35-65).

With regard to claim 6, Nishino et al discloses a digital camera that comprises in the image capture mode, the device does not display an image on a first screen and displays a preview on a second screen (col. 7, lines 5-30).

With regard to claim 7, Nishino et al discloses a digital camera that comprises of the first screen is disabled and does not receive user interface input while in the image capture mode (col. 7, lines 5-30).

With regard to claim 8, Nishino et al discloses a digital camera that comprises in the image capture mode, the device displays a visual indicia on a first screen and displays a preview on a second screen (Cols. 6 and 7).

With regard to claim 9, Nishino et al discloses a digital camera that comprises in the image capture mode, the device displays a preview on a first screen and a second screen (display units 1b and 1c).

With regard to claim 10, Nishino et al discloses a digital camera that comprises in one or more controls are presented on a second screen (digital camera 1).

7) Claims 11-15 are allowed.

The prior art of record fails to suggest or disclose:

With regard to claim 11, a device, comprising the processor operable to: receive user interface input to execute an image capture function; determine one or more of an image capture function configuration, a device orientation, and a device state; based on one or more of the image capture function configuration, the device orientation, and the device state, enter one of one or more image capture modes, wherein in each image capture mode a display on the first or second screen is different.

8) The prior art made of record and not relied upon is considered pertinent to Applicants' disclosure.

Kamamoto et al (US 5982429) discloses a video camera that comprises two different display screens.

Ejima (US 6188432) discloses an digital camera that comprises a view finder screen and monitor.

9) Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan Ho whose telephone number is (571) 272-7365. The examiner can normally be reached on Mon-Fri 7:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on (571) 272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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.

/Tuan V Ho/

Primary Examiner, Art Unit 2622

Notice of References Cited	Application/Control No. 13/627,498	Applicant(s)/Patent Under Reexamination SIRPAL ET AL.	
	Examiner TUAN HO	Art Unit 2661	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-7,626,630	12-2009	Nishino et al.	348/333.06
*	B	US-5,982,429	11-1999	Kamamoto et al.	348/333.06
*	C	US-6,188,432	02-2001	Ejima, Satoshi	348/240.99
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	("20100053345" | "20100265344" | "20100309334").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2014/01/27 09:16
L2	4333	348/333.01-333.13.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2014/01/27 09:26
L3	1466	2 and ((first and second) same (screen or monitor))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2014/01/27 09:27
L4	719	2 and ((first and second) near8 (screen or monitor))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2014/01/27 09:28
L5	311	348/333.06.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2014/01/27 09:44
L6	29	5 and (tuan near3 ho)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2014/01/27 09:44
L7	191	(sanjiv near3 sirpal) or (mohammed near3 selim) or (john near3 visosky)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2014/01/27 09:50
L8	5	7 and (first and second and (screen or monitor) and interface and input and function and orientation and state).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2014/01/27 09:51
L11	1	"20130076929"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2014/01/27 11:11
L12	1	11 and (medium or carrier or wave)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2014/01/27 11:12
L13	304745	H04N 5/23293	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2014/01/27 11:27
L14	305998	2 or 13	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2014/01/27 11:27

L15	9421	14 and ((first and second) near8 (screen or monitor))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2014/01/27 11:28
L16	1321	14 and ((first and second) near8 (screen or monitor or diplay) and orientation)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2014/01/27 11:29

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L9	89	(first and second and (screen or monitor) and interface and input and function and orientation and state).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2014/01/27 10:25
L10	19	(((first and second) same (screen or monitor)) and interface and input and function and orientation and state).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2014/01/27 10:26

1/ 27/ 2014 11:30:26 AM
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13627498	SIRPAL ET AL.
	Examiner	Art Unit
	TUAN HO	2661

CPC- SEARCHED		
Symbol	Date	Examiner
H04N 5/23293	1/27/14	TH

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
348	333.01`-333.13, 333.06	1/27/14	TH

SEARCH NOTES		
Search Notes	Date	Examiner
EAST and Inventorship Search	1/27/14	TH

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	See Search History	1/27/14	TH

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	2

Complete if Known	
Application Number	13/627,498
Filing Date	September 26, 2012
First Named Inventor	Sanjiv Sirpal
Art Unit	2664
Examiner Name	Lin Ye
Attorney Docket Number	6583-282

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
	1	2013/0021262	01/24/2013	Chen	
	2	2013/0076963	03/28/2013	Sirpal et al.	
	3	2013/0076964	03/28/2013	Sirpal 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]

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	4	Google Image Result for Fujitsu Dual Screen Phone, published date unknown, [retrieved Apr. 18, 2011], 1 page. Retrieved from: www.google.com/imgres?imgurl=http://www.computerriver.com/images/dual-screen-phone.jpg
	5	Google Image Result for LG Dual Touch Screen Concept Phone by Eugene Kim, published date unknown, [retrieved Apr. 18, 2011], 1 page. Retrieved from: www.google.com/imgres?imgurl=http://fgadgets.com/wp-content/uploads/2010/08/lg-dual-touch-screen-phone-Eugene-Kim-01.jpg
	6	Google Image Result for Fujitsu Dual Screen Phone, published date unknown, [retrieved Apr. 18, 2011], 1 page. Retrieved from: www.google.com/imgres?imgurl=http://www.gsmdome.com/wp-content/uploads/2010/10/fujitsu-dual-screen-phone_w2cP7_54.jpg
	7	Google Image Result for Kyocera Echo, published date unknown, [retrieved Apr. 18, 2011], 1 page. Retrieved from: www.google.com/imgres?imgurl=http://www.hardwaresphere.com/wp-content/uploads/2011/02/kyocera-echo-dual-screen-android-phone-for-sprint-network.jpg
	8	Google Image Result for HTC Triple Viper, published date unknown, [retrieved Apr. 18, 2011], 1 page. Retrieved from:www.google.com/imgres?imgurl=http://www.santafemods.com/Forum/AndroidForums/htcTripleViper.png
	9	Google Image Result for Dual-Screen Phone, [retrieved Apr. 18, 2011], 1 page. Retrieved from: www.google.com/imgres?imgurl=http://www.netshet.org/wp-content/uploads/2011/02/Dual-Scree...

Examiner Signature	/Tuan Ho/ (01/27/2014)	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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.H./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/627,498
				Filing Date	September 26, 2012
				First Named Inventor	Sanjiv Sirpal
				Art Unit	2664
				Examiner Name	Lin Ye
Sheet	2	of	2	Attorney Docket Number	6583-282

	10	Website entitled, "Kyocera Echo," Kyocera Communications, Inc., 2011, [retrieved on Aug. 27, 2012], 6 pages. Retrieved from: www.echobykyocera.com/
	11	Website entitled "Lapdock™ for MOTOROLA ATRIX," Motorola Mobility, Inc, 2011, [retrieved on Apr. 18, 2011], 1 page. Retrieved from: www.motorola.com/Consumers/US-EN/Consumer-Product-and-Services/Mobile+Ph...
	12	Website entitled "Motorola ATRIX 4G Laptop Dock Review," phoneArena.com, posted Mar. 2, 2011, [retrieved on Apr. 18, 2011], 6 pages. Retrieved from: www.phonearena.com/reviews/Motorola-ATRIX-4G-Laptop-Dock-Review_id2667
	13	Website entitled, "Sony Tablet," Sony Corporation, 2012, [retrieved on Aug. 27, 2012], 3 pages. Retrieved from: www.store.sony.com/webapp/wcs/stores/servlet/CategoryDisplay?catalogId=10551&storeId=10151&langId=-1&categoryId=8198552921644795521
	14	BURNS, C., "Motorola ATRIX 4G Laptop Dock Review," Android Community, Feb. 20, 2011, [retrieved on Apr. 18, 2011], 5 pages. Retrieved from: www.androidcommunity.com/motorola-atrix-4g-laptop-dock-review-20110220/
	15	CATACCHIO, "This smartphone has two huge screens...that rotate," The Next Web, Inc., Oct. 7, 2010, [retrieved on Jul. 21, 2011], 2 pages. Retrieved from: www.thenextweb.com/asia/2010/10/07/this-smartphone-has-two-huge-screens-that-rotate/
	16	Posted by Harman03, "Kyocera Echo Dual-screen Android Phone," posted 4 weeks from Apr. 18, 2011, [retrieved on Apr. 18, 2011], 3 pages. Retrieved from: www.unp.me/f106/kyocera-echo-dual-screen-android-phone-143800/
	17	STEIN, S., "How does the Motorola Atrix 4G Lapdock compare with a laptop?" Crave - CNET, Feb. 9, 2011 [retrieved on Apr. 18, 2011], 7 pages. Retrieved from: www.news.cnet.com/8301-17938_105-20031251-1.html

Examiner Signature	/Tuan Ho/ (01/27/2014)	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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.H./

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13627498	SIRPAL ET AL.
	Examiner	**Art Unit**
	TUAN HO	2661

✓	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	01/27/2014								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
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	14	✓								
	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								
	20	✓								

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MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/627,498
				Filing Date	September 26, 2012
				First Named Inventor	Sanjiv Sirpal
				Art Unit	2664
				Examiner Name	Lin Ye
Sheet	1	of	2	Attorney Docket Number	6583-282

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
	1	2013/0021262	01/24/2013	Chen	
	2	2013/0076963	03/28/2013	Sirpal et al.	
	3	2013/0076964	03/28/2013	Sirpal 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]

NON-PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	4	Google Image Result for Fujitsu Dual Screen Phone, published date unknown, [retrieved Apr. 18, 2011], 1 page. Retrieved from: www.google.com/imgres?imgurl=http://www.computerriver.com/images/dual-screen-phone.jpg
	5	Google Image Result for LG Dual Touch Screen Concept Phone by Eugene Kim, published date unknown, [retrieved Apr. 18, 2011], 1 page. Retrieved from: www.google.com/imgres?imgurl=http://fgadgets.com/wp-content/uploads/2010/08/lg-dual-touch-screen-phone-Eugene-Kim-01.jpg
	6	Google Image Result for Fujitsu Dual Screen Phone, published date unknown, [retrieved Apr. 18, 2011], 1 page. Retrieved from: www.google.com/imgres?imgurl=http://www.gsmdome.com/wp-content/uploads/2010/10/fujitsu-dual-screen-phone_w2cP7_54.jpg
	7	Google Image Result for Kyocera Echo, published date unknown, [retrieved Apr. 18, 2011], 1 page. Retrieved from: www.google.com/imgres?imgurl=http://www.hardwaresphere.com/wp-content/uploads/2011/02/kyocera-echo-dual-screen-android-phone-for-sprint-network.jpg
	8	Google Image Result for HTC Triple Viper, published date unknown, [retrieved Apr. 18, 2011], 1 page. Retrieved from:www.google.com/imgres?imgurl=http://www.santafemods.com/Forum/AndroidForums/htcTripleViper.png
	9	Google Image Result for Dual-Screen Phone, [retrieved Apr. 18, 2011], 1 page. Retrieved from: www.google.com/imgres?imgurl=http://www.netshet.org/wp-content/uploads/2011/02/Dual-Scree...

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. [2] Applicant's unique citation designation number (optional). [3] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [4] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [5] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [6] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [7] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/627,498
				Filing Date	September 26, 2012
				First Named Inventor	Sanjiv Sirpal
				Art Unit	2664
				Examiner Name	Lin Ye
Sheet	2	of	2	Attorney Docket Number	6583-282

	10	Website entitled, "Kyocera Echo," Kyocera Communications, Inc., 2011, [retrieved on Aug. 27, 2012], 6 pages. Retrieved from: www.echobykyocera.com/
	11	Website entitled "Lapdock™ for MOTOROLA ATRIX," Motorola Mobility, Inc, 2011, [retrieved on Apr. 18, 2011], 1 page. Retrieved from: www.motorola.com/Consumers/US-EN/Consumer-Product-and-Services/Mobile+Ph...
	12	Website entitled "Motorola ATRIX 4G Laptop Dock Review," phoneArena.com, posted Mar. 2, 2011, [retrieved on Apr. 18, 2011], 6 pages. Retrieved from: www.phonearena.com/reviews/Motorola-ATRIX-4G-Laptop-Dock-Review_id2667
	13	Website entitled, "Sony Tablet," Sony Corporation, 2012, [retrieved on Aug. 27, 2012], 3 pages. Retrieved from: www.store.sony.com/webapp/wcs/stores/servlet/CategoryDisplay?catalogId=10551&storeId=10151&langId=-1&categoryId=8198552921644795521
	14	BURNS, C., "Motorola ATRIX 4G Laptop Dock Review," Android Community, Feb. 20, 2011, [retrieved on Apr. 18, 2011], 5 pages. Retrieved from: www.androidcommunity.com/motorola-atrix-4g-laptop-dock-review-20110220/
	15	CATACCHIO, "This smartphone has two huge screens...that rotate," The Next Web, Inc., Oct. 7, 2010, [retrieved on Jul. 21, 2011], 2 pages. Retrieved from: www.thenextweb.com/asia/2010/10/07/this-smartphone-has-two-huge-screens-that-rotate/
	16	Posted by Harman03, "Kyocera Echo Dual-screen Android Phone," posted 4 weeks from Apr. 18, 2011, [retrieved on Apr. 18, 2011], 3 pages. Retrieved from: www.unp.me/f106/kyocera-echo-dual-screen-android-phone-143800/
	17	STEIN, S., "How does the Motorola Atrix 4G Lapdock compare with a laptop?" Crave - CNET, Feb. 9, 2011 [retrieved on Apr. 18, 2011], 7 pages. Retrieved from: www.news.cnet.com/8301-17938_105-20031251-1.html

Examiner Signature		Date Considered	

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Electronic Acknowledgement Receipt

EFS ID:	15598580
Application Number:	13627498
International Application Number:	
Confirmation Number:	1310
Title of Invention:	CAPTURE MODE OUTWARD FACING MODES
First Named Inventor/Applicant Name:	Sanjiv Sirpal
Customer Number:	111285
Filer:	Tadd Fjelp Wilson/Theresa Brown
Filer Authorized By:	Tadd Fjelp Wilson
Attorney Docket Number:	6583-282
Receipt Date:	24-APR-2013
Filing Date:	26-SEP-2012
Time Stamp:	12:07:17
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	Non Patent Literature	GoogleImages_1_Fujitsu.pdf	229012 f697fe73d73e7c3c801d8a98a8ae214c10aa2d55	no	1

Warnings:	
Information:	

2	Non Patent Literature	GoogleImages_2_LG.pdf	243911 58ba5097ce71c44b7050455cf450d44181e8b420	no	1
Warnings:					
Information:					
3	Non Patent Literature	GoogleImages_3_Fujitsu.pdf	247938 4eb5e13939e31a9ddeda3c84d2bf431e0dce314f	no	1
Warnings:					
Information:					
4	Non Patent Literature	GoogleImages_4_Kyocera_Echo.pdf	162606 909ee45c461ea237b0b9e2a09ae954585c9016b1	no	1
Warnings:					
Information:					
5	Non Patent Literature	GoogleImages_5_HTC_Triple_Viper.pdf	133124 c6568299d2d644d7558ed898d63a3f92247db26b	no	1
Warnings:					
Information:					
6	Non Patent Literature	GoogleImages_6_Dual-Screen.pdf	214557 757cc06496f139a9844f73fdfb307b6597b88bfd	no	1
Warnings:					
Information:					
7	Non Patent Literature	Kyocera_Echo_website_.pdf	1071725 1177c1053765213f247363ee9b510fddcaf202e2	no	6
Warnings:					
Information:					
8	Non Patent Literature	Lapdock_for_Motorola_ATRIX.pdf	219001 71f7dea7bf0b24744dff3152b8d71da1e2e8b6db	no	1
Warnings:					
Information:					
9	Non Patent Literature	Motorola_ATRIX_4G_Laptop_Dock_Review_PhoneArena.pdf	1148773 48529a6454baec0e433a2fed64335744b9bc3d1e	no	6
Warnings:					
Information:					
10	Non Patent Literature	Sony_Tablet_.pdf	616030 23bbd69392b75900dbef8d12d193952fdfa4574a	no	3
Warnings:					
Information:					

11	Non Patent Literature	BURNS_Motorola_ATRIX_4G_Laptop_Dock_Review-AndroidCommunity.pdf	738297 27631c5ca3dd0bad6684a45c86b1b12a9d31f9ca	no	5
Warnings:					
Information:					
12	Non Patent Literature	CATACCHIO_This-smartphone-has-two-huge-screens-that-rotate.pdf	460845 0b6a081598ab0a4bdb4d2b5716f70db6261fe447	no	2
Warnings:					
Information:					
13	Non Patent Literature	HARMAN03_Kyocera_Echo_Dual-screen_Android_Phone.pdf	398409 ae67d9a7d4486f55a1c3bdeff709b4efc8a1724e	no	3
Warnings:					
Information:					
14	Non Patent Literature	STEIN_How_does_the_Motorola_Atrix_4g_Lapdock_compare.pdf	1202946 5c6825da3fbe0ad5955337628b965f36a5894da6	no	7
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Information:					
15		IDS_01.pdf	530135 35915e0897635fea4b16bc7653747c477bfd6c5e	yes	5

Multipart Description/PDF files in .zip description

Document Description	Start	End
Transmittal Letter	1	3
Information Disclosure Statement (IDS) Form (SB08)	4	5

Warnings:	
Information:	
Total Files Size (in bytes):	7617309

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 2664
Sanjiv Sirpal	)	Confirmation No.: 1310
Serial No.: 13/627,498	)	Examiner: Lin Ye
Filed: September 26, 2012	)	
Atty. File No.: 6583-282	)	INFORMATION DISCLOSURE STATEMENT
Entitled: "Capture Mode Outward Facing Modes"	)	*Electronically Submitted*

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

The references cited on attached Form PTO/SB08 are being called to the attention of the Examiner.

☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.

☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.

☒ Copies of the cited U.S. patents/patent application publications are not enclosed in accordance with 37 C.F.R. § 1.98(a).

☐ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. § 1.98(d), because the references were cited by or submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

☐ To the best of applicants' belief, the pertinence of the foreign-language references is believed to be summarized in the attached English abstracts and/or in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☒ Examiner's attention is drawn to the following related applications:

Serial No. 13/627,422 filed 09/26/2012 (Attorney Ref. No. 6583-168)

Serial No. 13/627,453 filed 09/26/2012 (Attorney Ref. No. 6583-281)

☐ Other:_____

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence

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MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

☒	**37 CFR 1.97(b)**: No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfied by one of the following conditions ("X" indicates satisfaction): ☐ Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application, or ☒ Before the mailing date of a first Office Action on the merits, or ☐ Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.
☐	**37 CFR 1.97(c)**: The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of any one of the following conditions: (1) a final action under 37 C.F.R. 1.113, or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. This Information Disclosure Statement is accompanied by: ☐ A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. OR ☐ Please charge Deposit Account 19-1970 in the amount of $180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account 19-1970.
☐	**37 CFR 1.97(d)**: This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c). ☐ This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) AND ☐ Applicants hereby requests consideration of the reference(s) disclosed herein. Please charge Deposit Account 19-1970 in the amount of $180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.

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MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☐ The undersigned certifies that:

☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

OR

☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS P.C.

By: _____

Tadd F. Wilson
Registration No. 54544
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: April 22, 2013

Ex. 1002, p. 101
MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/627,498	09/26/2012	Sanjiv Sirpal	6583-282

CONFIRMATION NO. 1310

PUBLICATION NOTICE

111285
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

OC000000060119223

Title:CAPTURE MODE OUTWARD FACING MODES

Publication No.US-2013-0076929-A1
Publication Date:03/28/2013

NOTICE OF PUBLICATION OF APPLICATION

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

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

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

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

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

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

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MOTOROLA et al. v. MULTIFOLD
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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
13/627,498	09/26/2012	2664	1380	6583-282	20	3

CONFIRMATION NO. 1310

CORRECTED FILING RECEIPT

111285
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202



Date Mailed: 01/11/2013

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

Inventor(s)

Sanjiv Sirpal, Oakville, CANADA;
Mohammed Selim, Oakville, CANADA;
John S. Visosky, Gormley, CANADA;

Applicant(s)

Z124, George Town, KY

Assignment For Published Patent Application

Z124, George Town, KY

Power of Attorney: The patent practitioners associated with Customer Number 22442

Domestic Priority data as claimed by applicant

This appln claims benefit of 61/539,884 09/27/2011

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

If Required, Foreign Filing License Granted: 10/12/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/627,498**

Projected Publication Date: 03/28/2013

Non-Publication Request: No

Early Publication Request: No

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MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

Title

CAPTURE MODE OUTWARD FACING MODES

Preliminary Class

348

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 (1-866-999-4158).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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

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

NOT GRANTED

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

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

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MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 2629
	)	
Sanjiv Sirpal et al.	)	Examiner:
	)	
Serial No.: 13/627,498	)	Confirmation No.: 1310
	)	
Filed: September 26, 2012	)	REQUEST TO CORRECT FILING RECEIPT
	)	
Atty. File No.: 6583-282	)	
	)	***Submitted Via EFS-Web***

For: "CAPTURE MODE OUTWARD FACING MODES"

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

Dear Sir:

Applicant requests the commissioner to correct the Applicant Information of the above-mentioned invention and issue a Corrected Filing Receipt. The Applicant is Z124.

For your reference, attached is a Substitute Application Data Sheet and a Marked-Up Filing Receipt showing changes.

Any questions or concerns regarding this submission should be addressed to the below-named attorney at (303) 863-9700.

Respectfully submitted,

SHERIDAN ROSS P.C.

By: /Tadd F. Wilson/
Tadd F. Wilson
Registration No. 54,544
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: December 27, 2012

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
13/627,498	09/26/2012	2629	1380	6583-282	20	3

CONFIRMATION NO. 1310

22442
Sheridan Ross PC
1560 Broadway
Suite 1200
Denver, CO 80202

OCT 18 2012

FILING RECEIPT

OC000000057045968

Date Mailed: 10/15/2012

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)

Sanjiv Sirpal, Oakville, CANADA;
Mohammed Selim, Oakville, CANADA;
John S. Visosky, Gormley, CANADA;

Applicant(s)

~~Sanjiv Sirpal, Oakville, CANADA;~~
~~Mohammed Selim, Oakville, CANADA;~~
~~John S. Visosky, Gormley, CANADA;~~ Z124, George Town, Grand Cayman

Power of Attorney: None

Domestic Priority data as claimed by applicant

This appln claims benefit of 61/539,884 09/27/2011

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.)

If Required, Foreign Filing License Granted: 10/12/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/627,498**

Projected Publication Date: 03/28/2013

Non-Publication Request: No

Early Publication Request: No

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MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

Title

CAPTURE MODE OUTWARD FACING MODES

Preliminary Class

345

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.

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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IPR2025-00038

set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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

NOT GRANTED

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

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6583-282
	Application Number	
Title of Invention	CAPTURE MODE OUTWARD FACING MODES	

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
	Sanjiv		Sirpal	

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

City	Oakville, Ontario	Country of Residence i	CA

Mailing Address of Inventor:

Address 1	3264 Sotcksbridge Ave.		
Address 2			
City	Oakville, Ontario	**State/Province**	
Postal Code	L6M 0E3	**Country** i	CA

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Mohammed		Selim	

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

City	Oakville, Ontario	Country of Residence i	CA

Mailing Address of Inventor:

Address 1	2488 Oakhaven Drive		
Address 2			
City	Oakville, Ontario	**State/Province**	
Postal Code	L6M 4B9	**Country** i	CA

Inventor 3 Remove

Legal Name

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6583-282
	Application Number	
Title of Invention	CAPTURE MODE OUTWARD FACING MODES	

Prefix	Given Name	Middle Name	Family Name	Suffix
	John	S.	Visosky	

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

City	Gormley, Ontario	Country of Residence i	CA

Mailing Address of Inventor:

Address 1	11 Lady Diana Court		
Address 2			
City	Gormley, Ontario	**State/Province**	
Postal Code	L0H 1G0	**Country** i	CA

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

Correspondence Information:

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	111285		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	CAPTURE MODE OUTWARD FACING MODES		
Attorney Docket Number	6583-282	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		**Sub Class (if any)**	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	38	**Suggested Figure for Publication (if any)**	

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:

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6583-282
	Application Number	
Title of Invention	CAPTURE MODE OUTWARD FACING MODES	

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	111285		

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.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	non provisional of	61539884	2011-09-27

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 benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).

Remove

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Priority Claimed
			◉ Yes ○ No

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

Authorization to Permit Access:

☐ Authorization to Permit Access to the Instant Application by the Participating Offices

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6583-282
	Application Number	
Title of Invention	CAPTURE MODE OUTWARD FACING MODES	

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

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

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

Applicant Information:

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

Applicant 1

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.

Remove

◉ Assignee	○ Legal Representative under 35 U.S.C. 117
○ 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 Assignee is an Organization check here. ☒

Organization Name	Z124		
Mailing Address Information:			
Address 1	C/O MAPLES CORPORATE SERVICES LIMITED		
Address 2	P.O. BOX 309GT, UGLAND HOUSE, SOUTH CHURCH STREET		
City	George Town, Grand Cayman	**State/Province**	
Country [i]	KY	Postal Code	KY11104
Phone Number		Fax Number	

Ex. 1002, p. 113
MOTOROLA et al. v. MULTIFOLD
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6583-282
	Application Number	
Title of Invention	CAPTURE MODE OUTWARD FACING MODES	

Email Address	

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

Signature:

Remove

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

Signature	/Tadd F. Wilson/			Date (YYYY-MM-DD)	2012-12-27
First Name	Tadd F.	Last Name	Wilson	Registration Number	54544

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.

Electronic Acknowledgement Receipt

EFS ID:	14579311
Application Number:	13627498
International Application Number:	
Confirmation Number:	1310
Title of Invention:	CAPTURE MODE OUTWARD FACING MODES
First Named Inventor/Applicant Name:	Sanjiv Sirpal
Customer Number:	111285
Filer:	Tadd Fjelp Wilson
Filer Authorized By:	
Attorney Docket Number:	6583-282
Receipt Date:	28-DEC-2012
Filing Date:	26-SEP-2012
Time Stamp:	15:30:41
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	Request for Corrected Filing Receipt	Request_Correct_FR.pdf	201977 28d17c74c97f43adac78ebc9754e9f01a1fb9c65	no	4

Warnings:	
Information:	

2	Application Data Sheet	Substitute_ADS.pdf	1399898 538edc3a79e3f1221afcec751bad4a373144440f	no	6

Warnings:	
Information:	
Total Files Size (in bytes):	1601875

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

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
13/627,498	09/26/2012	2661	1380	6583-282	20	3

CONFIRMATION NO. 1310

REPLACEMENT FILING RECEIPT

111285
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202



Date Mailed: 12/12/2012

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)

Sanjiv Sirpal, Oakville, CANADA;
Mohammed Selim, Oakville, CANADA;
John S. Visosky, Gormley, CANADA;

Applicant(s)

Sanjiv Sirpal, Oakville, CANADA;
Mohammed Selim, Oakville, CANADA;
John S. Visosky, Gormley, CANADA;

Power of Attorney: The patent practitioners associated with Customer Number 22442

Domestic Priority data as claimed by applicant

This appln claims benefit of 61/539,884 09/27/2011

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

If Required, Foreign Filing License Granted: 10/12/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/627,498**

Projected Publication Date: 03/28/2013

Non-Publication Request: No

Early Publication Request: No

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MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

Title

CAPTURE MODE OUTWARD FACING MODES

Preliminary Class

348

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 (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as

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MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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

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

NOT GRANTED

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

SelectUSA

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

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www.uspto.gov

APPLICATION NUMBER	PATENT NUMBER	GROUP ART UNIT	FILE WRAPPER LOCATION
13/627,498		2661	

OC000000058089309

Correspondence Address/Fee Address Change

The following fields have been set to Customer Number 111285 on 12/10/2012

- **Correspondence Address**
- **Maintenance Fee Address**

The address of record for Customer Number 111285 is:

111285
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

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MOTOROLA et al. v. MULTIFOLD
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UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/627,498	09/26/2012	Sanjiv Sirpal	6583-282

CONFIRMATION NO. 1310

POA ACCEPTANCE LETTER

22442
Sheridan Ross PC
1560 Broadway
Suite 1200
Denver, CO 80202

OC000000057940097

Date Mailed: 12/03/2012

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 11/20/2012.

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.

/gbien-aime/

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

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PTO/AIA/01 (06-12)
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	CAPTURE MODE OUTWARD FACING MODES

As the below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ The attached application, or
- ☑ United States application or PCT international application number 13/627,498 filed on September 26, 2012.

The above-identified application was made 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 five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Sanjiv Sirpal Date (Optional): _____

Signature: S. Sirpal

Note: An application data sheet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional PTO/SB/AIA01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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/80 (07-12)
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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.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

I hereby appoint:

☑ Practitioners associated with Customer Number: 22442

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

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 a ssigned only to the undersigned according to the USPTO assignment records or assignments docu ments attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☑ The address associated with Customer Number: 22442

OR

☐	Firm or Individual Name	
	Address	
	City	
	Country	
	Telephone	Email

Assignee Name and Address: Z124
P.O. Box 309GT
Ugland House, South Church Street
Georgetown, Grand Cayman KY1-1104, Cayman Islands

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/SB/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 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 is supplied below is authorized to act on behalf of the assignee

Signature	Timothy L Stewart	Date	September 20, 2012
Name	Timothy L. Stewart	Telephone	408-576-7746
Title	Secretary		

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

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

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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STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Z124

Application No./Patent No.: 13/627,498 Filed/Issue Date: September 26, 2012

Titled: CAPTURE MODE OUTWARD FACING MODES

Z124, 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 _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☑ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, 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: _____ To: _____

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

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

2. From: _____ To: _____

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

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

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.

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STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

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

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

4. From: _____ To: _____

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

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

5. From: _____ To: _____

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

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

6. From: _____ To: _____

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

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

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature	Date: 11/19/2012
Tadd F. Wilson	54,544
Printed or Typed Name	Title or Registration Number

Worldwide Assignment

WHEREAS, I/We, Sanjiv Sirpal, Mohammed Selim, and John S. Visosky, have made an invention entitled **CAPTURE MODE OUTWARD FACING MODES** for which I/We have filed an application for Letters Patent of the United States on September 26, 2012, under Application No. 13/627,498, and

WHEREAS, Z124 ("ASSIGNEE"), a corporation or other business entity duly registered in the State/Country of Cayman Islands, whose postal address is P.O. Box 309GT, Ugland House, South Church St., Georgetown, Grand Cayman KY1-1104, Cayman Islands, desires to acquire the entire right, title, and interest in and to the invention, the application, and any Letters Patent to be granted for the invention in the United States and in all foreign countries;

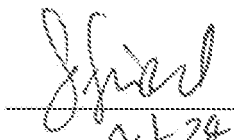
NOW, THEREFORE, in consideration of One Dollar ($1.00) paid to me/us by ASSIGNEE, and other good and valuable consideration, the receipt and sufficiency of which I/We acknowledge, I/We, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the invention, the application, all applications claiming benefit of the application, including, but not limited to, all divisions and continuations of the application, and all Letters Patent that may be granted thereon in the United States, Canada and in all foreign countries, and all reissues thereof, together with the right to claim priority under the International Convention in all member countries; and I/We authorize and request the Director of Patents and Trademarks to issue all Letters Patent for the invention to ASSIGNEE, its successors, legal representatives, and assigns in accordance with the terms of this Assignment;

AND I/We covenant and agree that I/We have the full right to convey the entire right, title, and interest herein assigned and that I/We have not executed and will not execute any assignment or other instrument in conflict with this Assignment;

AND I/We further covenant and agree that upon request by ASSIGNEE, its successors, legal representatives, and/or assigns, and without further consideration, I/We will do all lawful acts that may be necessary or desirable to assist ASSIGNEE, its successors, legal representatives, and/or assigns to obtain and enforce patent protection for the invention in the United States and in all foreign countries, including, but not limited to, communicate with ASSIGNEE, its successors, legal representatives, and/or assigns any facts known to me/us regarding the invention, testify in any legal proceeding, sign all lawful papers, execute and deliver all papers that may be necessary or desirable to perfect the title to the invention in ASSIGNEE, its successors, legal representatives, and/or assigns, execute all divisional, continuation, and reissue applications, and make all rightful oaths, it being understood that any expense incident to the rendering of such assistance will be borne by ASSIGNEE, its successors, legal representatives, and/or assigns;

AND I/We further hereby authorize ASSIGNEE, or its attorneys or agents, to insert the correct Application Number and filing Date into this Assignment, if none is indicated on that date of my/our execution of this agreement.

IN WITNESS WHEREOF, I/We have executed this Assignment on the date(s) indicated below.

Signature:		Signature:	
Date:	Oct 24 /2012	Date:	
Full Name:	Sanjiv Sirpal	Full Name:	Mohammed Selim
Address:	3264 Stocksbridge Avenue	Address:	2488 Oakhaven Drive
	Oakville, Ontario L6M 0E3		Oakville, Ontario L6M4B9
	Canada		Canada

Worldwide Assignment

WHEREAS, I/We, Sanjiv Sirpal, Mohammed Selim, and John S. Visosky, have made an invention entitled **CAPTURE MODE OUTWARD FACING MODES** for which I/We have filed an application for Letters Patent of the United States on September 26, 2012, under Application No. 13/627,498, and

WHEREAS, Z124 ("ASSIGNEE"), a corporation or other business entity duly registered in the State/Country of Cayman Islands, whose postal address is P.O. Box 309GT, Ugland House, South Church St., Georgetown, Grand Cayman KY1-1104, Cayman Islands, desires to acquire the entire right, title, and interest in and to the invention, the application, and any Letters Patent to be granted for the invention in the United States and in all foreign countries;

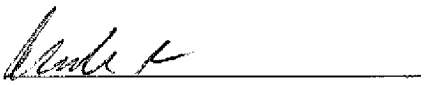
NOW, THEREFORE, in consideration of One Dollar ($1.00) paid to me/us by ASSIGNEE, and other good and valuable consideration, the receipt and sufficiency of which I/We acknowledge, I/We, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the invention, the application, all applications claiming benefit of the application, including, but not limited to, all divisions and continuations of the application, and all Letters Patent that may be granted thereon in the United States, Canada and in all foreign countries, and all reissues thereof, together with the right to claim priority under the International Convention in all member countries; and I/We authorize and request the Director of Patents and Trademarks to issue all Letters Patent for the invention to ASSIGNEE, its successors, legal representatives, and assigns in accordance with the terms of this Assignment;

AND I/We covenant and agree that I/We have the full right to convey the entire right, title, and interest herein assigned and that I/We have not executed and will not execute any assignment or other instrument in conflict with this Assignment;

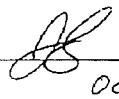
AND I/We further covenant and agree that upon request by ASSIGNEE, its successors, legal representatives, and/or assigns, and without further consideration, I/We will do all lawful acts that may be necessary or desirable to assist ASSIGNEE, its successors, legal representatives, and/or assigns to obtain and enforce patent protection for the invention in the United States and in all foreign countries, including, but not limited to, communicate with ASSIGNEE, its successors, legal representatives, and/or assigns any facts known to me/us regarding the invention, testify in any legal proceeding, sign all lawful papers, execute and deliver all papers that may be necessary or desirable to perfect the title to the invention in ASSIGNEE, its successors, legal representatives, and/or assigns, execute all divisional, continuation, and reissue applications, and make all rightful oaths, it being understood that any expense incident to the rendering of such assistance will be borne by ASSIGNEE, its successors, legal representatives, and/or assigns;

AND I/We further hereby authorize ASSIGNEE, or its attorneys or agents, to insert the correct Application Number and filing Date into this Assignment, if none is indicated on that date of my/our execution of this agreement.

IN WITNESS WHEREOF, I/We have executed this Assignment on the date(s) indicated below.

Signature:		Signature:	
Date:		Date:	Oct 30 2012
Full Name:	Sanjiv Sirpal	Full Name:	Mohammed Selim
Address:	3264 Stocksbridge Avenue	Address:	2488 Oakhaven Drive
	Oakville, Ontario L6M 0E3		Oakville, Ontario L6M4B9
	Canada		Canada

Atty. Docket No.: 6583-282

Signature: 

Date: Oct 21/2012

Full Name: John S. Visosky

Address: 11 Lady Diana Court
Gormley, Ontario L0H 1G0
Canada

Electronic Acknowledgement Receipt

EFS ID:	14284187
Application Number:	13627498
International Application Number:	
Confirmation Number:	1310
Title of Invention:	CAPTURE MODE OUTWARD FACING MODES
First Named Inventor/Applicant Name:	Sanjiv Sirpal
Customer Number:	22442
Filer:	Tadd Fjelp Wilson/Amy Duarte
Filer Authorized By:	Tadd Fjelp Wilson
Attorney Docket Number:	6583-282
Receipt Date:	20-NOV-2012
Filing Date:	26-SEP-2012
Time Stamp:	22:04:07
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	Miscellaneous Incoming Letter	6583-282_Submission_of_Declarations.pdf	75659 1897f3651065b11bb029be5335debc8035e06d24	no	1

Warnings:	
Information:	

2	Oath or Declaration filed	6583-282_Executed_Declaration_SIRPAL.pdf	493673 501c77056cb86291686a158ebb89c2608827d34e	no	1
Warnings:					
Information:					
3	Oath or Declaration filed	6583-282_Executed_Declaration_SELIM.pdf	47877 4992794bac4dac5f5b87d6945289fa09edbc14a8	no	1
Warnings:					
Information:					
4	Oath or Declaration filed	6583-282_Executed_Declaration_VISOSKY.pdf	123502 8009d0149316b8a60924779b77f60359746ecb93	no	1
Warnings:					
Information:					
5	Power of Attorney	AIA80_GenPOA_Z124-Signed.pdf	286961 e36341aa3cff48472f817830b27663f9c76e8a37	no	2
Warnings:					
Information:					
6	Assignee showing of ownership per 37 CFR 3.73.	6583-282_373c_Statement.pdf	858167 97769e15bc5039ae10b0975ee38eca512e4322d6	no	5
Warnings:					
Information:					
		Total Files Size (in bytes):	1885839		

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of: SIRPAL et al. Serial No.: 13/627,498 Filed: September 26, 2012 Atty. File No.: 6583-282 Entitled: "CAPTURE MODE OUTWARD FACING MODES"	Group Art Unit: 2629 Confirmation No.: 1310 Examiner: Not Yet Assigned ***Submitted Via EFS-Web***

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUBMISSION OF DECLARATIONS

Dear Commissioner:

In connection with the above-identified application, and in response to the Informational Notice to Applicant mailed October 15, 2012, enclosed for filing are executed Declarations by the inventors.

The late surcharge fee of $130.00 was previously submitted via EFS-Web on September 26, 2012, and no fees are believed to be due at this time. Although no fees are believed to be due with this submission, please charge any underpayment or credit any overpayment to Deposit Account No. 19-1970.

Respectfully submitted,

SHERIDAN ROSS P.C.

By: _____

Tadd F. Wilson
Registration No. 54544
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: 11/19/2012

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PTO/AIA/01 (06-12)
Approved for use through 01/31/2014. OMB 0651-0032
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.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	CAPTURE MODE OUTWARD FACING MODES

As the below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ The attached application, or
- ☑ United States application or PCT international application number 13/627,498 filed on September 26, 2012.

The above-identified application was made 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 five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: John S. Visosky Date (Optional): Oct 21/2012

Signature: _____

Note: An application data sheet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional PTO/SB/AIA01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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/01 (06-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	CAPTURE MODE OUTWARD FACING MODES

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☑ United States application or PCT international application number 13/627,498 filed on September 26, 2012.

The above-identified application was made 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 five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Mohammed Selim Date (Optional): Oct 31 2012

Signature: [signature]

Note: An application data sheet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional PTO/SB/AIA01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 13/627,498

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	390
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	620
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	250
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	*			OR	x 62 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*				x 250 =	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	1260

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.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/627,498	09/26/2012	Sanjiv Sirpal	6583-282

CONFIRMATION NO. 1310

22442
Sheridan Ross PC
1560 Broadway
Suite 1200
Denver, CO 80202

NOTICE

OC000000057045969

Date Mailed: 10/15/2012

INFORMATIONAL NOTICE TO APPLICANT

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

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

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  Sanjiv Sirpal, Mohammed Selim and John S. Visosky
  Applicant may submit the inventor's oath or declaration at any time before the Notice of Allowance and Fee(s) Due, PTOL-85, is mailed.

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IPR2025-00038

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
13/627,498	09/26/2012	2629	1380	6583-282	20	3

CONFIRMATION NO. 1310

22442
Sheridan Ross PC
1560 Broadway
Suite 1200
Denver, CO 80202

FILING RECEIPT



Date Mailed: 10/15/2012

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)

Sanjiv Sirpal, Oakville, CANADA;
Mohammed Selim, Oakville, CANADA;
John S. Visosky, Gormley, CANADA;

Applicant(s)

Sanjiv Sirpal, Oakville, CANADA;
Mohammed Selim, Oakville, CANADA;
John S. Visosky, Gormley, CANADA;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This appln claims benefit of 61/539,884 09/27/2011

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.)

If Required, Foreign Filing License Granted: 10/12/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/627,498**

Projected Publication Date: 03/28/2013

Non-Publication Request: No

Early Publication Request: No

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MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

Title

CAPTURE MODE OUTWARD FACING MODES

Preliminary Class

345

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 (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as

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MOTOROLA et al. v. MULTIFOLD
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set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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

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

NOT GRANTED

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

SelectUSA

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

PTO/AIA/14 (08-12)
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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 contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6583-282
	Application Number	
Title of Invention	CAPTURE MODE OUTWARD FACING MODES	

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
	Sanjiv		Sirpal	

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

City	Oakville, Ontario	Country of Residence i	CA

Mailing Address of Inventor:

Address 1	3264 Stocksbridge Ave.
Address 2	

City	Oakville, Ontario	State/Province	
Postal Code	L6M 0E3	**Country** i	CA

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Mohammed		Selim	

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

City	Oakville, Ontario	Country of Residence i	CA

Mailing Address of Inventor:

Address 1	2488 Oakhaven Drive
Address 2	

City	Oakville, Ontario	State/Province	
Postal Code	L6M 4B9	**Country** i	CA

Inventor 3 Remove

Legal Name

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
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 contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6583-282
	Application Number	
Title of Invention	CAPTURE MODE OUTWARD FACING MODES	

Prefix	Given Name	Middle Name	Family Name	Suffix
	John	S.	Visosky	

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

City	Gormley, Ontario	Country of Residence i	CA

Mailing Address of Inventor:

Address 1	11 Lady Diana Court		
Address 2			
City	Gormley, Ontario	**State/Province**	
Postal Code	L0H 1G0	**Country** i	CA

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

Correspondence Information:

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	22442		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	CAPTURE MODE OUTWARD FACING MODES		
Attorney Docket Number	6583-282	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		**Sub Class (if any)**	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	38	**Suggested Figure for Publication (if any)**	

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:

Ex. 1002, p. 142
MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

PTO/AIA/14 (08-12)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6583-282
	Application Number	
Title of Invention	CAPTURE MODE OUTWARD FACING MODES	

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	22442		

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.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	non provisional of	61539884	2011-09-27

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 benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).

Remove

Application Number	Country i	Filing Date (YYYY-MM-DD)	Priority Claimed
			◉ Yes ○ No

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

Authorization to Permit Access:

☐ Authorization to Permit Access to the Instant Application by the Participating Offices

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6583-282
	Application Number	
Title of Invention	CAPTURE MODE OUTWARD FACING MODES	

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

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

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

Applicant Information:

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

Applicant 1

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.

Remove

◯ Assignee	◯ Legal Representative under 35 U.S.C. 117
◯ 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 Assignee is an Organization check here. ☐

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

PTO/AIA/14 (08-12)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6583-282
	Application Number	
Title of Invention	CAPTURE MODE OUTWARD FACING MODES	

Mailing Address Information:			
Address 1			
Address 2			
City		**State/Province**	
Country [i]		Postal Code	
Phone Number		Fax Number	
Email Address			

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

Signature:

Remove

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

Signature	/Tadd F. Wilson/			Date (YYYY-MM-DD)	2012-10-11
First Name	Tadd F.	Last Name	Wilson	Registration Number	54544

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.

Electronic Acknowledgement Receipt

EFS ID:	13966295
Application Number:	13627498
International Application Number:	
Confirmation Number:	1310
Title of Invention:	CAPTURE MODE OUTWARD FACING MODES
First Named Inventor/Applicant Name:	Sanjiv Sirpal
Customer Number:	22442
Filer:	Tadd Fjelp Wilson
Filer Authorized By:	
Attorney Docket Number:	6583-282
Receipt Date:	11-OCT-2012
Filing Date:	
Time Stamp:	17:55:07
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	Application Data Sheet	Substitute_ADS_Correct_Sirpal_Address.pdf	1399626 6bbda7c0c8e5842f85897c7dc8099df8dc11cbd4	no	6

Warnings:	
Information:	

Total Files Size (in bytes):	1399626

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.

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6583-282
	Application Number	
Title of Invention	CAPTURE MODE OUTWARD FACING MODES	

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
	Sanjiv		Sirpal	

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

City	Oakville, Ontario	Country of Residence i	CA

Mailing Address of Inventor:

Address 1	3264 Sotcksbridge Ave.
Address 2	

City	Oakville, Ontario	State/Province	
Postal Code	L6M 0E3	**Country** i	CA

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Mohammed		Selim	

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

City	Oakville, Ontario	Country of Residence i	CA

Mailing Address of Inventor:

Address 1	2488 Oakhaven Drive
Address 2	

City	Oakville, Ontario	State/Province	
Postal Code	L6M 4B9	**Country** i	CA

Inventor 3 Remove

Legal Name

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
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 contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6583-282
	Application Number	
Title of Invention	CAPTURE MODE OUTWARD FACING MODES	

Prefix	Given Name	Middle Name	Family Name	Suffix
	John	S.	Visosky	

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

City	Gormley, Ontario	Country of Residence i	CA

Mailing Address of Inventor:

Address 1	11 Lady Diana Court		
Address 2			
City	Gormley, Ontario	**State/Province**	
Postal Code	L0H 1G0	**Country** i	CA

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

Correspondence Information:

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	22442		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	CAPTURE MODE OUTWARD FACING MODES		
Attorney Docket Number	6583-282	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		**Sub Class (if any)**	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	38	**Suggested Figure for Publication (if any)**	

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:

Ex. 1002, p. 150
MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6583-282
	Application Number	
Title of Invention	CAPTURE MODE OUTWARD FACING MODES	

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	22442		

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.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	non provisional of	61539884	2011-09-27

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 benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).

Remove

Application Number	Country i	Filing Date (YYYY-MM-DD)	Priority Claimed
			◉ Yes ○ No

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

Authorization to Permit Access:

☐ Authorization to Permit Access to the Instant Application by the Participating Offices

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6583-282
	Application Number	
Title of Invention	CAPTURE MODE OUTWARD FACING MODES	

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

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

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

Applicant Information:

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

Applicant 1

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.

Remove

◯ Assignee	◯ Legal Representative under 35 U.S.C. 117
◯ 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 Assignee is an Organization check here. ☐

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

PTO/AIA/14 (08-12)
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	6583-282
	Application Number	
Title of Invention	CAPTURE MODE OUTWARD FACING MODES	

Mailing Address Information:			
Address 1			
Address 2			
City		**State/Province**	
Country [i]		Postal Code	
Phone Number		Fax Number	
Email Address			

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

Signature:

Remove

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

Signature	/Tadd F. Wilson/			Date (YYYY-MM-DD)	2012-09-26
First Name	Tadd F.	Last Name	Wilson	Registration Number	54544

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

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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).

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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.

CAPTURE MODE OUTWARD FACING MODES

CROSS REFERENCE TO RELATED APPLICATION

[0001] The present application claims the benefits of and priority, under 35 U.S.C. § 119(e), to U.S. Provisional Application Serial No. 61/539,884, filed September 27, 2011, entitled "MOBILE DEVICE," which is incorporated herein by reference in its entirety for all that it teaches and for all purposes.

BACKGROUND

[0002] A substantial number of handheld computing devices, such as cellular phones, tablets, and E-Readers, make use of a touch screen display not only to deliver display information to the user but also to receive inputs from user interface commands. While touch screen displays may increase the configurability of the handheld device and provide a wide variety of user interface options, this flexibility typically comes at a price. The dual use of the touch screen to provide content and receive user commands, while flexible for the user, may obfuscate the display and cause visual clutter, thereby leading to user frustration and loss of productivity.

[0003] The small form factor of handheld computing devices requires a careful balancing between the displayed graphics and the area provided for receiving inputs. On the one hand, the small display constrains the display space, which may increase the difficulty of interpreting actions or results. On the other, a virtual keypad or other user interface scheme is superimposed on or positioned adjacent to an executing application, requiring the application to be squeezed into an even smaller portion of the display.

[0004] This balancing act is particularly difficult for single display touch screen devices. Single display touch screen devices are crippled by their limited screen space. When users are entering information into the device, through the single display, the ability to interpret information in the display can be severely hampered, particularly when a complex interaction between display and interface is required.

SUMMARY

[0005] There is a need for a dual multi-display handheld computing device that provides for enhanced power and/or versatility compared to conventional single display handheld computing devices. These and other needs are addressed by the various aspects, embodiments, and/or configurations of the present disclosure. Also, while the disclosure is presented in terms of

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exemplary embodiments, it should be appreciated that individual aspects of the disclosure can be separately claimed.

[0006] Additionally, it is desirable to have the multi-display device that can use either display when the device is closed. Thus, the user, based on the user's desires, can take better advantage of the phones capabilities. The device can have at least two screens that face in opposite directions when closed. A primary screen may be used for most applications. However, the user, or by some other input or event, can change the display to a secondary screen. Thus, the display may be provided on the opposite screen facing the opposite direction.

[0007] The device described herein can include at least first and second screens. In some circumstances, the device can receive user interface input to execute an image capture function. The device may then determine one or more of a image capture function configuration, a device orientation, and a device state. Based on one or more of the image capture function configuration, the device orientation, and the device state, the device can enter one of one or more image capture modes or configurations.

[0008] The phrases "at least one", "one or more", and "and/or" are open-ended expressions that are both conjunctive and disjunctive in operation. For example, each of the expressions "at least one of A, B and C", "at least one of A, B, or C", "one or more of A, B, and C", "one or more of A, B, or C" and "A, B, and/or C" means A alone, B alone, C alone, A and B together, A and C together, B and C together, or A, B and C together.

[0009] The term "a" or "an" entity refers to one or more of that entity. As such, the terms "a" (or "an"), "one or more" and "at least one" can be used interchangeably herein. It is also to be noted that the terms "comprising", "including", and "having" can be used interchangeably.

[0010] The term "automatic" and variations thereof, as used herein, refers to any process or operation done without material human input when the process or operation is performed. However, a process or operation can be automatic, even though performance of the process or operation uses material or immaterial human input, if the input is received before performance of the process or operation. Human input is deemed to be material if such input influences how the process or operation will be performed. Human input that consents to the performance of the process or operation is not deemed to be "material".

[0011] The term "computer-readable medium" as used herein refers to any tangible storage and/or transmission medium that participate in providing instructions to a processor for

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execution. Such a medium may take many forms, including but not limited to, non-volatile media, volatile media, and transmission media. Non-volatile media includes, for example, NVRAM, or magnetic or optical disks. Volatile media includes dynamic memory, such as main memory. Common forms of computer-readable media include, for example, a floppy disk, a flexible disk, hard disk, magnetic tape, or any other magnetic medium, magneto-optical medium, a CD-ROM, any other optical medium, punch cards, paper tape, any other physical medium with patterns of holes, a RAM, a PROM, and EPROM, a FLASH-EPROM, a solid state medium like a memory card, any other memory chip or cartridge, a carrier wave as described hereinafter, or any other medium from which a computer can read. A digital file attachment to e-mail or other self-contained information archive or set of archives is considered a distribution medium equivalent to a tangible storage medium. When the computer-readable media is configured as a database, it is to be understood that the database may be any type of database, such as relational, hierarchical, object-oriented, and/or the like. Accordingly, the disclosure is considered to include a tangible storage medium or distribution medium and prior art-recognized equivalents and successor media, in which the software implementations of the present disclosure are stored.

[0012] The term "desktop" refers to a metaphor used to portray systems. A desktop is generally considered a "surface" that typically includes pictures, called icons, widgets, folders, etc. that can activate show applications, windows, cabinets, files, folders, documents, and other graphical items. The icons are generally selectable to initiate a task through user interface interaction to allow a user to execute applications or conduct other operations.

[0013] The term "screen," "touch screen," or "touchscreen" refers to a physical structure that includes one or more hardware components that provide the device with the ability to render a user interface and/or receive user input. A screen can encompass any combination of gesture capture region, a touch sensitive display, and/or a configurable area. The device can have one or more physical screens embedded in the hardware. However a screen may also include an external peripheral device that may be attached and detached from the device. In embodiments, multiple external devices may be attached to the device. Thus, in embodiments, the screen can enable the user to interact with the device by touching areas on the screen and provides information to a user through a display. The touch screen may sense user contact in a number of different ways, such as by a change in an electrical parameter (e.g., resistance or capacitance), acoustic wave variations, infrared radiation proximity detection, light variation detection, and the

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like. In a resistive touch screen, for example, normally separated conductive and resistive metallic layers in the screen pass an electrical current. When a user touches the screen, the two layers make contact in the contacted location, whereby a change in electrical field is noted and the coordinates of the contacted location calculated. In a capacitive touch screen, a capacitive layer stores electrical charge, which is discharged to the user upon contact with the touch screen, causing a decrease in the charge of the capacitive layer. The decrease is measured, and the contacted location coordinates determined. In a surface acoustic wave touch screen, an acoustic wave is transmitted through the screen, and the acoustic wave is disturbed by user contact. A receiving transducer detects the user contact instance and determines the contacted location coordinates.

[0014] The term "display" refers to a portion of one or more screens used to display the output of a computer to a user. A display may be a single-screen display or a multi-screen display, referred to as a composite display. A composite display can encompass the touch sensitive display of one or more screens. A single physical screen can include multiple displays that are managed as separate logical displays. Thus, different content can be displayed on the separate displays although part of the same physical screen.

[0015] The term "displayed image" refers to an image produced on the display. A typical displayed image is a window or desktop. The displayed image may occupy all or a portion of the display.

[0016] The term "display orientation" refers to the way in which a rectangular display is oriented by a user for viewing. The two most common types of display orientation are portrait and landscape. In landscape mode, the display is oriented such that the width of the display is greater than the height of the display (such as a 4:3 ratio, which is 4 units wide and 3 units tall, or a 16:9 ratio, which is 16 units wide and 9 units tall). Stated differently, the longer dimension of the display is oriented substantially horizontal in landscape mode while the shorter dimension of the display is oriented substantially vertical. In the portrait mode, by contrast, the display is oriented such that the width of the display is less than the height of the display. Stated differently, the shorter dimension of the display is oriented substantially horizontal in the portrait mode while the longer dimension of the display is oriented substantially vertical.

[0017] The term "composite display" refers to a logical structure that defines a display that can encompass one or more screens. A multi-screen display can be associated with a composite

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display that encompasses all the screens. The composite display can have different display characteristics based on the various orientations of the device.

[0018] The term "gesture" refers to a user action that expresses an intended idea, action, meaning, result, and/or outcome. The user action can include manipulating a device (e.g., opening or closing a device, changing a device orientation, moving a trackball or wheel, etc.), movement of a body part in relation to the device, movement of an implement or tool in relation to the device, audio inputs, etc. A gesture may be made on a device (such as on the screen) or with the device to interact with the device.

[0019] The term "module" as used herein refers to any known or later developed hardware, software, firmware, artificial intelligence, fuzzy logic, or combination of hardware and software that is capable of performing the functionality associated with that element.

[0020] The term "gesture capture" refers to a sense or otherwise a detection of an instance and/or type of user gesture. The gesture capture can occur in one or more areas of the screen, A gesture region can be on the display, where it may be referred to as a touch sensitive display or off the display where it may be referred to as a gesture capture area.

[0021] A "multi-screen application" or "multiple-display application" refers to an application that is capable of multiple modes. The multi-screen application mode can include, but is not limited to, a single screen mode (where the application is displayed on a single screen) or a composite display mode (where the application is displayed on two or more screens). A multi-screen application can have different layouts optimized for the mode. Thus, the multi-screen application can have different layouts for a single screen or for a composite display that can encompass two or more screens. The different layouts may have different screen/display dimensions and/or configurations on which the user interfaces of the multi-screen applications can be rendered. The different layouts allow the application to optimize the application's user interface for the type of display, e.g., single screen or multiple screens. In single screen mode, the multi-screen application may present one window pane of information. In a composite display mode, the multi-screen application may present multiple window panes of information or may provide a larger and a richer presentation because there is more space for the display contents. The multi-screen applications may be designed to adapt dynamically to changes in the device and the mode depending on which display (single or composite) the system assigns to the multi-screen application. In alternative embodiments, the user can use a gesture to request the

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application transition to a different mode, and, if a display is available for the requested mode, the device can allow the application to move to that display and transition modes.

[0022] A "single-screen application" refers to an application that is capable of single screen mode. Thus, the single-screen application can produce only one window and may not be capable of different modes or different display dimensions. A single-screen application may not be capable of the several modes discussed with the multi-screen application.

[0023] The term "window" refers to a, typically rectangular, displayed image on at least part of a display that contains or provides content different from the rest of the screen. The window may obscure the desktop.

[0024] The terms "determine", "calculate" and "compute," and variations thereof, as used herein, are used interchangeably and include any type of methodology, process, mathematical operation or technique.

[0025] It shall be understood that the term "means" as used herein shall be given its broadest possible interpretation in accordance with 35 U.S.C., Section 112, Paragraph 6. Accordingly, a claim incorporating the term "means" shall cover all structures, materials, or acts set forth herein, and all of the equivalents thereof. Further, the structures, materials or acts and the equivalents thereof shall include all those described in the summary of the invention, brief description of the drawings, detailed description, abstract, and claims themselves.

[0026] The preceding is a simplified summary of the disclosure to provide an understanding of some aspects of the disclosure. This summary is neither an extensive nor exhaustive overview of the disclosure and its various aspects, embodiments, and/or configurations. It is intended neither to identify key or critical elements of the disclosure nor to delineate the scope of the disclosure but to present selected concepts of the disclosure in a simplified form as an introduction to the more detailed description presented below. As will be appreciated, other aspects, embodiments, and/or configurations of the disclosure are possible utilizing, alone or in combination, one or more of the features set forth above or described in detail below.

BRIEF DESCRIPTION OF THE DRAWINGS

[0027] FIG. 1A includes a first view of an embodiment of a multi-screen user device;

[0028] FIG. 1B includes a second view of an embodiment of a multi-screen user device;

[0029] FIG. 1C includes a third view of an embodiment of a multi-screen user device;

[0030] FIG. 1D includes a fourth view of an embodiment of a multi-screen user device;

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[0031] FIG. 1E includes a fifth view of an embodiment of a multi-screen user device;

[0032] FIG. 1F includes a sixth view of an embodiment of a multi-screen user device;

[0033] FIG. 1G includes a seventh view of an embodiment of a multi-screen user device;

[0034] FIG. 1H includes a eighth view of an embodiment of a multi-screen user device;

[0035] FIG. 1I includes a ninth view of an embodiment of a multi-screen user device;

[0036] FIG. 1J includes a tenth view of an embodiment of a multi-screen user device;

[0037] FIG. 2 is a block diagram of an embodiment of the hardware of the device;

[0038] FIG. 3A is a block diagram of an embodiment of the state model for the device based on the device's orientation and/or configuration;

[0039] FIG. 3B is a table of an embodiment of the state model for the device based on the device's orientation and/or configuration;

[0040] FIG. 4A is a first representation of an embodiment of user gesture received at a device;

[0041] FIG. 4B is a second representation of an embodiment of user gesture received at a device;

[0042] FIG. 4C is a third representation of an embodiment of user gesture received at a device;

[0043] FIG. 4D is a fourth representation of an embodiment of user gesture received at a device;

[0044] FIG. 4E is a fifth representation of an embodiment of user gesture received at a device;

[0045] FIG. 4F is a sixth representation of an embodiment of user gesture received at a device;

[0046] FIG. 4G is a seventh representation of an embodiment of user gesture received at a device;

[0047] FIG. 4H is a eighth representation of an embodiment of user gesture received at a device;

[0048] FIG. 5A is a block diagram of an embodiment of the device software and/or firmware;

[0049] FIG. 5B is a second block diagram of an embodiment of the device software and/or firmware;

[0050] FIG. 6A is a first representation of an embodiment of a device configuration generated in response to the device state;

[0051] FIG. 6B is a second representation of an embodiment of a device configuration generated in response to the device state;

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[0052] FIG. 6C is a third representation of an embodiment of a device configuration generated in response to the device state;

[0053] FIG. 6D is a fourth representation of an embodiment of a device configuration generated in response to the device state;

[0054] FIG. 6E is a fifth representation of an embodiment of a device configuration generated in response to the device state;

[0055] FIG. 6F is a sixth representation of an embodiment of a device configuration generated in response to the device state;

[0056] FIG. 6G is a seventh representation of an embodiment of a device configuration generated in response to the device state;

[0057] FIG. 6H is a eighth representation of an embodiment of a device configuration generated in response to the device state;

[0058] FIG. 6I is a ninth representation of an embodiment of a device configuration generated in response to the device state;

[0059] FIG. 6J is a tenth representation of an embodiment of a device configuration generated in response to the device state;

[0060] FIG. 7A is representation of a logical window stack;

[0061] FIG. 7B is another representation of an embodiment of a logical window stack;

[0062] FIG. 7C is another representation of an embodiment of a logical window stack;

[0063] FIG. 7D is another representation of an embodiment of a logical window stack;

[0064] FIG. 7E is another representation of an embodiment of a logical window stack;

[0065] FIG. 8 is block diagram of an embodiment of a logical data structure for a window stack;

[0066] FIG. 9 is a flow chart of an embodiment of a method for creating a window stack;

[0067] FIG. 10 illustrates an exemplary method for managing the display of an application based on application mode and device configuration;

[0068] FIG. 11 illustrates an exemplary user interface for an image capture feature or function;

[0069] FIG. 12 illustrates an exemplary user interface for an image capture feature or function;

[0070] FIG. 13 is a flow chart of an embodiment of a method for providing an image capture feature;

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[0071] FIG. 14A illustrates another exemplary user interface for an image capture feature or function;

[0072] FIG. 14B illustrates another exemplary user interface for an image capture feature or function;

[0073] FIG. 15A illustrates another exemplary user interface for an image capture feature or function;

[0074] FIG. 15B illustrates another exemplary user interface for an image capture feature or function;

[0075] FIG. 16A illustrates another exemplary user interface for an image capture feature or function;

[0076] FIG. 16B illustrates another exemplary user interface for an image capture feature or function;

[0077] FIG. 17 is a flow chart of an embodiment of a method for providing an image capture feature;

[0078] FIG. 18 illustrates another exemplary user interface for an image capture feature or function;

[0079] FIG. 19 is a flow chart of an embodiment of a method for providing an image capture feature;

[0080] FIG. 20 illustrates another exemplary user interface for an image capture feature or function;

[0081] FIG. 21 is a flow chart of an embodiment of a method for providing an image capture feature.

[0082] In the appended figures, similar components and/or features may have the same reference label. Further, various components of the same type may be distinguished by following the reference label by a letter that distinguishes among the similar components. If only the first reference label is used in the specification, the description is applicable to any one of the similar components having the same first reference label irrespective of the second reference label.

[0083] DETAILED DESCRIPTION

[0084] Presented herein are embodiments of a device. The device can be a communications device, such as a cellular telephone, or other smart device. The device can include two screens

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that are oriented to provide several unique display configurations. Further, the device can receive user input in unique ways. The overall design and functionality of the device provides for an enhanced user experience making the device more useful and more efficient.

[0085] Mechanical Features:

[0086] Figs. 1A-1J illustrate a device 100 in accordance with embodiments of the present disclosure. As described in greater detail below, device 100 can be positioned in a number of different ways each of which provides different functionality to a user. The device 100 is a multi-screen device that includes a primary screen 104 and a secondary screen 108, both of which are touch sensitive. In embodiments, the entire front surface of screens 104 and 108 may be touch sensitive and capable of receiving input by a user touching the front surface of the screens 104 and 108. Primary screen 104 includes touch sensitive display 110, which, in addition to being touch sensitive, also displays information to a user. Secondary screen 108 includes touch sensitive display 114, which also displays information to a user. In other embodiments, screens 104 and 108 may include more than one display area.

[0087] Primary screen 104 also includes a configurable area 112 that has been configured for specific inputs when the user touches portions of the configurable area 112. Secondary screen 108 also includes a configurable area 116 that has been configured for specific inputs. Areas 112a and 116a have been configured to receive a "back" input indicating that a user would like to view information previously displayed. Areas 112b and 116b have been configured to receive a "menu" input indicating that the user would like to view options from a menu. Areas 112c and 116c have been configured to receive a "home" input indicating that the user would like to view information associated with a "home" view. In other embodiments, areas 112a-c and 116a-c may be configured, in addition to the configurations described above, for other types of specific inputs including controlling features of device 100, some non-limiting examples including adjusting overall system power, adjusting the volume, adjusting the brightness, adjusting the vibration, selecting of displayed items (on either of screen 104 or 108), operating a camera, operating a microphone, and initiating/terminating of telephone calls. Also, in some embodiments, areas 112a-C and 116a-C may be configured for specific inputs depending upon the application running on device 100 and/or information displayed on touch sensitive displays 110 and/or 114.

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[0088] In addition to touch sensing, primary screen 104 and secondary screen 108 may also include areas that receive input from a user without requiring the user to touch the display area of the screen. For example, primary screen 104 includes gesture capture area 120, and secondary screen 108 includes gesture capture area 124. These areas are able to receive input by recognizing gestures made by a user without the need for the user to actually touch the surface of the display area. In comparison to touch sensitive displays 110 and 114, the gesture capture areas 120 and 124 are commonly not capable of rendering a displayed image.

[0089] The two screens 104 and 108 are connected together with a hinge 128, shown clearly in Fig. 1C (illustrating a back view of device 100). Hinge 128, in the embodiment shown in Figs. 1A-1J, is a center hinge that connects screens 104 and 108 so that when the hinge is closed, screens 104 and 108 are juxtaposed (i.e., side-by-side) as shown in Fig. 1B (illustrating a front view of device 100). Hinge 128 can be opened to position the two screens 104 and 108 in different relative positions to each other. As described in greater detail below, the device 100 may have different functionalities depending on the relative positions of screens 104 and 108.

[0090] Fig. 1D illustrates the right side of device 100. As shown in Fig. 1D, secondary screen 108 also includes a card slot 132 and a port 136 on its side. Card slot 132 in embodiments, accommodates different types of cards including a subscriber identity module (SIM). Port 136 in embodiments is an input/output port (I/O port) that allows device 100 to be connected to other peripheral devices, such as a display, keyboard, or printing device. As can be appreciated, these are merely some examples and in other embodiments device 100 may include other slots and ports such as slots and ports for accommodating additional memory devices and/or for connecting other peripheral devices. Also shown in Fig. 1D is an audio jack 140 that accommodates a tip, ring, sleeve (TRS) connector for example to allow a user to utilize headphones or a headset.

[0091] Device 100 also includes a number of buttons 158. For example, Fig. 1E illustrates the left side of device 100. As shown in Fig. 1E, the side of primary screen 104 includes three buttons 144, 148, and 152, which can be configured for specific inputs. For example, buttons 144, 148, and 152 may be configured to, in combination or alone, control a number of aspects of device 100. Some non-limiting examples include overall system power, volume, brightness, vibration, selection of displayed items (on either of screen 104 or 108), a camera, a microphone, and initiation/termination of telephone calls. In some embodiments, instead of separate buttons

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two buttons may be combined into a rocker button. This arrangement is useful in situations where the buttons are configured to control features such as volume or brightness. In addition to buttons 144, 148, and 152, device 100 also includes a button 156, shown in Fig. 1F, which illustrates the top of device 100. In one embodiment, button 156 is configured as an on/off button used to control overall system power to device 100. In other embodiments, button 156 is configured to, in addition to or in lieu of controlling system power, control other aspects of device 100. In some embodiments, one or more of the buttons 144, 148, 152, and 156 are capable of supporting different user commands. By way of example, a normal press has a duration commonly of less than about 1 second and resembles a quick tap. A medium press has a duration commonly of 1 second or more but less than about 12 seconds. A long press has a duration commonly of about 12 seconds or more. The function of the buttons is normally specific to the application that is currently in focus on the respective display 110 and 114. In a telephone application for instance and depending on the particular button, a normal, medium, or long press can mean end call, increase in call volume, decrease in call volume, and toggle microphone mute. In a camera or video application for instance and depending on the particular button, a normal, medium, or long press can mean increase zoom, decrease zoom, and take photograph or record video.

[0092] There are also a number of hardware components within device 100. As illustrated in Fig. 1C, device 100 includes a speaker 160 and a microphone 164. Device 100 also includes a camera 168 (Fig. 1B). Additionally, device 100 includes two position sensors 172A and 172B, which are used to determine the relative positions of screens 104 and 108. In one embodiment, position sensors 172A and 172B are Hall effect sensors. However, in other embodiments other sensors can be used in addition to or in lieu of the Hall effect sensors. An accelerometer 176 may also be included as part of device 100 to determine the orientation of the device 100 and/or the orientation of screens 104 and 108. Additional internal hardware components that may be included in device 100 are described below with respect to Fig. 2.

[0093] The overall design of device 100 allows it to provide additional functionality not available in other communication devices. Some of the functionality is based on the various positions and orientations that device 100 can have. As shown in Figs. 1B-1G, device 100 can be operated in an "open" position where screens 104 and 108 are juxtaposed. This position allows a large display area for displaying information to a user. When position sensors 172A

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and 172B determine that device 100 is in the open position, they can generate a signal that can be used to trigger different events such as displaying information on both screens 104 and 108. Additional events may be triggered if accelerometer 176 determines that device 100 is in a portrait position (Fig. 1B) as opposed to a landscape position (not shown).

[0094] In addition to the open position, device 100 may also have a "closed" position illustrated in Fig. 1H. Again, position sensors 172A and 172B can generate a signal indicating that device 100 is in the "closed" position. This can trigger an event that results in a change of displayed information on screen 104 and/or 108. For example, device 100 may be programmed to stop displaying information on one of the screens, e.g., screen 108, since a user can only view one screen at a time when device 100 is in the "closed" position. In other embodiments, the signal generated by position sensors 172A and 172B, indicating that the device 100 is in the "closed" position, can trigger device 100 to answer an incoming telephone call. The "closed" position can also be a preferred position for utilizing the device 100 as a mobile phone.

[0095] Device 100 can also be used in an "easel" position which is illustrated in Fig. 1I. In the "easel" position, screens 104 and 108 are angled with respect to each other and facing outward with the edges of screens 104 and 108 substantially horizontal. In this position, device 100 can be configured to display information on both screens 104 and 108 to allow two users to simultaneously interact with device 100. When device 100 is in the "easel" position, sensors 172A and 172B generate a signal indicating that the screens 104 and 108 are positioned at an angle to each other, and the accelerometer 176 can generate a signal indicating that device 100 has been placed so that the edge of screens 104 and 108 are substantially horizontal. The signals can then be used in combination to generate events that trigger changes in the display of information on screens 104 and 108.

[0096] Fig. 1J illustrates device 100 in a "modified easel" position. In the "modified easel" position, one of screens 104 or 108 is used as a stand and is faced down on the surface of an object such as a table. This position provides a convenient way for information to be displayed to a user in landscape orientation. Similar to the easel position, when device 100 is in the "modified easel" position, position sensors 172A and 172B generate a signal indicating that the screens 104 and 108 are positioned at an angle to each other. The accelerometer 176 would generate a signal indicating that device 100 has been positioned so that one of screens 104 and 108 is faced downwardly and is substantially horizontal. The signals can then be used to

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generate events that trigger changes in the display of information of screens 104 and 108. For example, information may not be displayed on the screen that is face down since a user cannot see the screen.

[0097] Transitional states are also possible. When the position sensors 172A and B and/or accelerometer indicate that the screens are being closed or folded (from open), a closing transitional state is recognized. Conversely when the position sensors 172A and B indicate that the screens are being opened or folded (from closed), an opening transitional state is recognized. The closing and opening transitional states are typically time-based, or have a maximum time duration from a sensed starting point. Normally, no user input is possible when one of the closing and opening states is in effect. In this manner, incidental user contact with a screen during the closing or opening function is not misinterpreted as user input. In embodiments, another transitional state is possible when the device 100 is closed. This additional transitional state allows the display to switch from one screen 104 to the second screen 108 when the device 100 is closed based on some user input, e.g., a double tap on the screen 110,114.

[0098] As can be appreciated, the description of device 100 is made for illustrative purposes only, and the embodiments are not limited to the specific mechanical features shown in Figs. 1A-1J and described above. In other embodiments, device 100 may include additional features, including one or more additional buttons, slots, display areas, hinges, and/or locking mechanisms. Additionally, in embodiments, the features described above may be located in different parts of device 100 and still provide similar functionality. Therefore, Figs. 1A-1J and the description provided above are nonlimiting.

[0099] Hardware Features:

[0100] Fig. 2 illustrates components of a device 100 in accordance with embodiments of the present disclosure. In general, the device 100 includes a primary screen 104 and a secondary screen 108. While the primary screen 104 and its components are normally enabled in both the opened and closed positions or states, the secondary screen 108 and its components are normally enabled in the opened state but disabled in the closed state. However, even when in the closed state a user or application triggered interrupt (such as in response to a phone application or camera application operation) can flip the active screen, or disable the primary screen 104 and enable the secondary screen 108, by a suitable command. Each screen 104, 108 can be touch sensitive and can include different operative areas. For example, a first operative area, within

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each touch sensitive screen 104 and 108, may comprise a touch sensitive display 110, 114. In general, the touch sensitive display 110, 114 may comprise a full color, touch sensitive display. A second area within each touch sensitive screen 104 and 108 may comprise a gesture capture region 120, 124. The gesture capture region 120, 124 may comprise an area or region that is outside of the touch sensitive display 110, 114 area, and that is capable of receiving input, for example in the form of gestures provided by a user. However, the gesture capture region 120, 124 does not include pixels that can perform a display function or capability.

[0101] A third region of the touch sensitive screens 104 and 108 may comprise a configurable area 112, 116. The configurable area 112, 116 is capable of receiving input and has display or limited display capabilities. In embodiments, the configurable area 112, 116 may present different input options to the user. For example, the configurable area 112, 116 may display buttons or other relatable items. Moreover, the identity of displayed buttons, or whether any buttons are displayed at all within the configurable area 112, 116 of a touch sensitive screen 104 or 108, may be determined from the context in which the device 100 is used and/or operated. In an exemplary embodiment, the touch sensitive screens 104 and 108 comprise liquid crystal display devices extending across at least those regions of the touch sensitive screens 104 and 108 that are capable of providing visual output to a user, and a capacitive input matrix over those regions of the touch sensitive screens 104 and 108 that are capable of receiving input from the user.

[0102] One or more display controllers 216a, 216b may be provided for controlling the operation of the touch sensitive screens 104 and 108, including input (touch sensing) and output (display) functions. In the exemplary embodiment illustrated in Fig. 2, a separate touch screen controller 216a or 216b is provided for each touch screen 104 and 108. In accordance with alternate embodiments, a common or shared touch screen controller 216 may be used to control each of the included touch sensitive screens 104 and 108. In accordance with still other embodiments, the functions of a touch screen controller 216 may be incorporated into other components, such as a processor 204.

[0103] The processor 204 may comprise a general purpose programmable processor or controller for executing application programming or instructions. In accordance with at least some embodiments, the processor 204 may include multiple processor cores, and/or implement multiple virtual processors. In accordance with still other embodiments, the processor 204 may

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include multiple physical processors. As a particular example, the processor 204 may comprise a specially configured application specific integrated circuit (ASIC) or other integrated circuit, a digital signal processor, a controller, a hardwired electronic or logic circuit, a programmable logic device or gate array, a special purpose computer, or the like. The processor 204 generally functions to run programming code or instructions implementing various functions of the device 100.

[0104] A communication device 100 may also include memory 208 for use in connection with the execution of application programming or instructions by the processor 204, and for the temporary or long term storage of program instructions and/or data. As examples, the memory 208 may comprise RAM, DRAM, SDRAM, or other solid state memory. Alternatively or in addition, data storage 212 may be provided. Like the memory 208, the data storage 212 may comprise a solid state memory device or devices. Alternatively or in addition, the data storage 212 may comprise a hard disk drive or other random access memory.

[0105] In support of communications functions or capabilities, the device 100 can include a cellular telephony module 228. As examples, the cellular telephony module 228 can comprise a GSM, CDMA, FDMA and/or analog cellular telephony transceiver capable of supporting voice, multimedia and/or data transfers over a cellular network. Alternatively or in addition, the device 100 can include an additional or other wireless communications module 232. As examples, the other wireless communications module 232 can comprise a Wi-Fi, BLUETOOTH TM, WiMax, infrared, or other wireless communications link. The cellular telephony module 228 and the other wireless communications module 232 can each be associated with a shared or a dedicated antenna 224.

[0106] A port interface 252 may be included. The port interface 252 may include proprietary or universal ports to support the interconnection of the device 100 to other devices or components, such as a dock, which may or may not include additional or different capabilities from those integral to the device 100. In addition to supporting an exchange of communication signals between the device 100 and another device or component, the docking port 136 and/or port interface 252 can support the supply of power to or from the device 100. The port interface 252 also comprises an intelligent element that comprises a docking module for controlling communications or other interactions between the device 100 and a connected device or component.

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[0107] An input/output module 248 and associated ports may be included to support communications over wired networks or links, for example with other communication devices, server devices, and/or peripheral devices. Examples of an input/output module 248 include an Ethernet port, a Universal Serial Bus (USB) port, Institute of Electrical and Electronics Engineers (IEEE) 1394, or other interface.

[0108] An audio input/output interface/device(s) 244 can be included to provide analog audio to an interconnected speaker or other device, and to receive analog audio input from a connected microphone or other device. As an example, the audio input/output interface/device(s) 244 may comprise an associated amplifier and analog to digital converter. Alternatively or in addition, the device 100 can include an integrated audio input/output device 256 and/or an audio jack for interconnecting an external speaker or microphone. For example, an integrated speaker and an integrated microphone can be provided, to support near talk or speaker phone operations.

[0109] Hardware buttons 158 can be included for example for use in connection with certain control operations. Examples include a master power switch, volume control, etc., as described in conjunction with Figs. 1A through 1J. One or more image capture interfaces/devices 240, such as a camera, can be included for capturing still and/or video images. Alternatively or in addition, an image capture interface/device 240 can include a scanner or code reader. An image capture interface/device 240 can include or be associated with additional elements, such as a flash or other light source.

[0110] The device 100 can also include a global positioning system (GPS) receiver 236. In accordance with embodiments of the present invention, the GPS receiver 236 may further comprise a GPS module that is capable of providing absolute location information to other components of the device 100. An accelerometer(s) 176 may also be included. For example, in connection with the display of information to a user and/or other functions, a signal from the accelerometer 176 can be used to determine an orientation and/or format in which to display that information to the user.

[0111] Embodiments of the present invention can also include one or more position sensor(s) 172. The position sensor 172 can provide a signal indicating the position of the touch sensitive screens 104 and 108 relative to one another. This information can be provided as an input, for example to a user interface application, to determine an operating mode, characteristics of the touch sensitive displays 110, 114, and/or other device 100 operations. As examples, a screen

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position sensor 172 can comprise a series of Hall effect sensors, a multiple position switch, an optical switch, a Wheatstone bridge, a potentiometer, or other arrangement capable of providing a signal indicating of multiple relative positions the touch screens are in.

[0112] Communications between various components of the device 100 can be carried by one or more buses 222. In addition, power can be supplied to the components of the device 100 from a power source and/or power control module 260. The power control module 260 can, for example, include a battery, an AC to DC converter, power control logic, and/or ports for interconnecting the device 100 to an external source of power.

[0113] Device State:

[0114] Figs. 3A and 3B represent illustrative states of device 100. While a number of illustrative states are shown, and transitions from a first state to a second state, it is to be appreciated that the illustrative state diagram may not encompass all possible states and/or all possible transitions from a first state to a second state. As illustrated in Fig. 3, the various arrows between the states (illustrated by the state represented in the circle) represent a physical change that occurs to the device 100, that is detected by one or more of hardware and software, the detection triggering one or more of a hardware and/or software interrupt that is used to control and/or manage one or more functions of device 100.

[0115] As illustrated in Fig. 3A, there are twelve exemplary "physical" states: closed 304, transition 308 (or opening transitional state), easel 312, modified easel 316, open 320, inbound/outbound call or communication 324, image/video capture 328, transition 332 (or closing transitional state), landscape 340, docked 336, docked 344 and landscape 348. Next to each illustrative state is a representation of the physical state of the device 100 with the exception of states 324 and 328, where the state is generally symbolized by the international icon for a telephone and the icon for a camera, respectfully.

[0116] In state 304, the device is in a closed state with the device 100 generally oriented in the portrait direction with the primary screen 104 and the secondary screen 108 back-to-back in different planes (see Fig. 1H). From the closed state, the device 100 can enter, for example, docked state 336, where the device 100 is coupled with a docking station, docking cable, or in general docked or associated with one or more other devices or peripherals, or the landscape state 340, where the device 100 is generally oriented with the primary screen 104 facing the user, and the primary screen 104 and the secondary screen 108 being back-to-back.

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[0117] In the closed state, the device can also move to a transitional state where the device remains closed by the display is moved from one screen 104 to another screen 108 based on a user input, e.g., a double tap on the screen 110, 114. Still another embodiment includes a bilateral state. In the bilateral state, the device remains closed, but a single application displays at least one window on both the first display 110 and the second display 114. The windows shown on the first and second display 110, 114 may be the same or different based on the application and the state of that application. For example, while acquiring an image with a camera, the device may display the view finder on the first display 110 and displays a preview for the photo subjects (full screen and mirrored left-to-right) on the second display 114.

[0118] In state 308, a transition state from the closed state 304 to the semi-open state or easel state 312, the device 100 is shown opening with the primary screen 104 and the secondary screen 108 being rotated around a point of axis coincidence with the hinge. Upon entering the easel state 312, the primary screen 104 and the secondary screen 108 are separated from one another such that, for example, the device 100 can sit in an easel-like configuration on a surface.

[0119] In state 316, known as the modified easel position, the device 100 has the primary screen 104 and the secondary screen 108 in a similar relative relationship to one another as in the easel state 312, with the difference being one of the primary screen 104 or the secondary screen 108 are placed on a surface as shown.

[0120] State 320 is the open state where the primary screen 104 and the secondary screen 108 are generally on the same plane. From the open state, the device 100 can transition to the docked state 344 or the open landscape state 348. In the open state 320, the primary screen 104 and the secondary screen 108 are generally in the portrait-like orientation while in landscaped state 348 the primary screen 104 and the secondary screen 108 are generally in a landscape-like orientation.

[0121] State 324 is illustrative of a communication state, such as when an inbound or outbound call is being received or placed, respectively, by the device 100. While not illustrated for clarity, it should be appreciated the device 100 can transition to the inbound/outbound call state 324 from any state illustrated in Fig. 3. In a similar manner, the image/video capture state 328 can be entered into from any other state in Fig. 3, with the image/video capture state 328 allowing the device 100 to take one or more images via a camera and/or videos with a video capture device 240.

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[0122] Transition state 322 illustratively shows primary screen 104 and the secondary screen 108 being closed upon one another for entry into, for example, the closed state 304.

[0123] Fig. 3B illustrates, with reference to the key, the inputs that are received to detect a transition from a first state to a second state. In Fig. 3B, various combinations of states are shown with in general, a portion of the columns being directed toward a portrait state 352, a landscape state 356, and a portion of the rows being directed to portrait state 360 and landscape state 364.

[0124] In Fig. 3B, the Key indicates that "H" represents an input from one or more Hall Effect sensors, "A" represents an input from one or more accelerometers, "T" represents an input from a timer, "P" represents a communications trigger input and "I" represents an image and/or video capture request input. Thus, in the center portion 376 of the chart, an input, or combination of inputs, are shown that represent how the device 100 detects a transition from a first physical state to a second physical state.

[0125] As discussed, in the center portion of the chart 376, the inputs that are received enable the detection of a transition from, for example, a portrait open state to a landscape easel state - shown in bold – "HAT." For this exemplary transition from the portrait open to the landscape easel state, a Hall Effect sensor ("H"), an accelerometer ("A") and a timer ("T") input may be needed. The timer input can be derived from, for example, a clock associated with the processor.

[0126] In addition to the portrait and landscape states, a docked state 368 is also shown that is triggered based on the receipt of a docking signal 372. As discussed above and in relation to Fig. 3, the docking signal can be triggered by the association of the device 100 with one or more other device 100s, accessories, peripherals, smart docks, or the like.

[0127] User Interaction:

[0128] Figs. 4A through 4H depict various graphical representations of gesture inputs that may be recognized by the screens 104, 108. The gestures may be performed not only by a user's body part, such as a digit, but also by other devices, such as a stylus, that may be sensed by the contact sensing portion(s) of a screen 104, 108. In general, gestures are interpreted differently, based on where the gestures are performed (either directly on the display 110, 114 or in the gesture capture region 120, 124). For example, gestures in the display 110,114 may be directed to a desktop or application, and gestures in the gesture capture region 120, 124 may be interpreted as for the system.

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[0129] With reference to Figs. 4A-4H, a first type of gesture, a touch gesture 420, is substantially stationary on the screen 104,108 for a selected length of time. A circle 428 represents a touch or other contact type received at particular location of a contact sensing portion of the screen. The circle 428 may include a border 432, the thickness of which indicates a length of time that the contact is held substantially stationary at the contact location. For instance, a tap 420 (or short press) has a thinner border 432a than the border 432b for a long press 424 (or for a normal press). The long press 424 may involve a contact that remains substantially stationary on the screen for longer time period than that of a tap 420. As will be appreciated, differently defined gestures may be registered depending upon the length of time that the touch remains stationary prior to contact cessation or movement on the screen.

[0130] With reference to Fig. 4C, a drag gesture 400 on the screen 104,108 is an initial contact (represented by circle 428) with contact movement 436 in a selected direction. The initial contact 428 may remain stationary on the screen 104,108 for a certain amount of time represented by the border 432. The drag gesture typically requires the user to contact an icon, window, or other displayed image at a first location followed by movement of the contact in a drag direction to a new second location desired for the selected displayed image. The contact movement need not be in a straight line but have any path of movement so long as the contact is substantially continuous from the first to the second locations.

[0131] With reference to Fig. 4D, a flick gesture 404 on the screen 104,108 is an initial contact (represented by circle 428) with truncated contact movement 436 (relative to a drag gesture) in a selected direction. In embodiments, a flick has a higher exit velocity for the last movement in the gesture compared to the drag gesture. The flick gesture can, for instance, be a finger snap following initial contact. Compared to a drag gesture, a flick gesture generally does not require continual contact with the screen 104,108 from the first location of a displayed image to a predetermined second location. The contacted displayed image is moved by the flick gesture in the direction of the flick gesture to the predetermined second location. Although both gestures commonly can move a displayed image from a first location to a second location, the temporal duration and distance of travel of the contact on the screen is generally less for a flick than for a drag gesture.

[0132] With reference to Fig. 4E, a pinch gesture 408 on the screen 104,108 is depicted. The pinch gesture 408 may be initiated by a first contact 428a to the screen 104,108 by, for example,

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a first digit and a second contact 428b to the screen 104,108 by, for example, a second digit. The first and second contacts 428a,b may be detected by a common contact sensing portion of a common screen 104,108, by different contact sensing portions of a common screen 104 or108, or by different contact sensing portions of different screens. The first contact 428a is held for a first amount of time, as represented by the border 432a, and the second contact 428b is held for a second amount of time, as represented by the border 432b. The first and second amounts of time are generally substantially the same, and the first and second contacts 428 a, b generally occur substantially simultaneously. The first and second contacts 428 a, b generally also include corresponding first and second contact movements 436 a, b, respectively. The first and second contact movements 436 a, b are generally in opposing directions. Stated another way, the first contact movement 436a is towards the second contact 436b, and the second contact movement 436b is towards the first contact 436a. More simply stated, the pinch gesture 408 may be accomplished by a user's digits touching the screen 104,108 in a pinching motion.

[0133] With reference to Fig. 4F, a spread gesture 410 on the screen 104,108 is depicted. The spread gesture 410 may be initiated by a first contact 428a to the screen 104,108 by, for example, a first digit and a second contact 428b to the screen 104,108 by, for example, a second digit. The first and second contacts 428a,b may be detected by a common contact sensing portion of a common screen 104,108, by different contact sensing portions of a common screen 104,108, or by different contact sensing portions of different screens. The first contact 428a is held for a first amount of time, as represented by the border 432a, and the second contact 428b is held for a second amount of time, as represented by the border 432b. The first and second amounts of time are generally substantially the same, and the first and second contacts 428 a, b generally occur substantially simultaneously. The first and second contacts 428 a, b generally also include corresponding first and second contact movements 436a, b, respectively. The first and second contact movements 436 a, b are generally in a common direction. Stated another way, the first and second contact movements 436 a, b are away from the first and second contacts 428a, b. More simply stated, the spread gesture 410 may be accomplished by a user's digits touching the screen 104,108 in a spreading motion.

[0134] The above gestures may be combined in any manner, such as those shown by Figs. 4G and 4H, to produce a determined functional result. For example, in Fig. 4G a tap gesture 420 is combined with a drag or flick gesture 412 in a direction away from the tap gesture 420. In Fig.

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4H, a tap gesture 420 is combined with a drag or flick gesture 412 in a direction towards the tap gesture 420.

[0135] The functional result of receiving a gesture can vary depending on a number of factors, including a state of the device 100, display 110, 114, or screen 104, 108, a context associated with the gesture, or sensed location of the gesture. The state of the device commonly refers to one or more of a configuration of the device 100, a display orientation, and user and other inputs received by the device 100. Context commonly refers to one or more of the particular application(s) selected by the gesture and the portion(s) of the application currently executing, whether the application is a single- or multi-screen application, and whether the application is a multi-screen application displaying one or more windows in one or more screens or in one or more stacks. Sensed location of the gesture commonly refers to whether the sensed set(s) of gesture location coordinates are on a touch sensitive display 110, 114 or a gesture capture region 120, 124, whether the sensed set(s) of gesture location coordinates are associated with a common or different display or screen 104,108, and/or what portion of the gesture capture region contains the sensed set(s) of gesture location coordinates.

[0136] A tap, when received by an a touch sensitive display 110, 114, can be used, for instance, to select an icon to initiate or terminate execution of a corresponding application, to maximize or minimize a window, to reorder windows in a stack, and to provide user input such as by keyboard display or other displayed image. A drag, when received by a touch sensitive display 110, 114, can be used, for instance, to relocate an icon or window to a desired location within a display, to reorder a stack on a display, or to span both displays (such that the selected window occupies a portion of each display simultaneously). A flick, when received by a touch sensitive display 110, 114 or a gesture capture region 120, 124, can be used to relocate a window from a first display to a second display or to span both displays (such that the selected window occupies a portion of each display simultaneously). Unlike the drag gesture, however, the flick gesture is generally not used to move the displayed image to a specific user-selected location but to a default location that is not configurable by the user.

[0137] The pinch gesture, when received by a touch sensitive display 110, 114 or a gesture capture region 120, 124, can be used to minimize or otherwise increase the displayed area or size of a window (typically when received entirely by a common display), to switch windows displayed at the top of the stack on each display to the top of the stack of the other display

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(typically when received by different displays or screens), or to display an application manager (a "pop-up window" that displays the windows in the stack). The spread gesture, when received by a touch sensitive display 110, 114 or a gesture capture region 120, 124, can be used to maximize or otherwise decrease the displayed area or size of a window, to switch windows displayed at the top of the stack on each display to the top of the stack of the other display (typically when received by different displays or screens), or to display an application manager (typically when received by an off-screen gesture capture region on the same or different screens).

[0138] The combined gestures of Fig. 4G, when received by a common display capture region in a common display or screen 104,108, can be used to hold a first window stack location in a first stack constant for a display receiving the gesture while reordering a second window stack location in a second window stack to include a window in the display receiving the gesture. The combined gestures of Fig. 4H, when received by different display capture regions in a common display or screen 104,108 or in different displays or screens, can be used to hold a first window stack location in a first window stack constant for a display receiving the tap part of the gesture while reordering a second window stack location in a second window stack to include a window in the display receiving the flick or drag gesture. Although specific gestures and gesture capture regions in the preceding examples have been associated with corresponding sets of functional results, it is to be appreciated that these associations can be redefined in any manner to produce differing associations between gestures and/or gesture capture regions and/or functional results.

[0139] Firmware and Software:

[0140] The memory 508 may store and the processor 504 may execute one or more software components. These components can include at least one operating system (OS) 516, an application manager 562, a desktop 566, and/or one or more applications 564a and/or 564b from an application store 560. The OS 516 can include a framework 520, one or more frame buffers 548, one or more drivers 512, previously described in conjunction with Fig. 2, and/or a kernel 518. The OS 516 can be any software, consisting of programs and data, which manages computer hardware resources and provides common services for the execution of various applications 564. The OS 516 can be any operating system and, at least in some embodiments, dedicated to mobile devices, including, but not limited to, Linux, ANDROID TM, iPhone OS

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(IOS TM), WINDOWS PHONE 7 TM, etc. The OS 516 is operable to provide functionality to the phone by executing one or more operations, as described herein.

[0141] The applications 564 can be any higher level software that executes particular functionality for the user. Applications 564 can include programs such as email clients, web browsers, texting applications, games, media players, office suites, etc. The applications 564 can be stored in an application store 560, which may represent any memory or data storage, and the management software associated therewith, for storing the applications 564. Once executed, the applications 564 may be run in a different area of memory 508.

[0142] The framework 520 may be any software or data that allows the multiple tasks running on the device to interact. In embodiments, at least portions of the framework 520 and the discrete components described hereinafter may be considered part of the OS 516 or an application 564. However, these portions will be described as part of the framework 520, but those components are not so limited. The framework 520 can include, but is not limited to, a Multi-Display Management (MDM) module 524, a Surface Cache module 528, a Window Management module 532, an Input Management module 536, a Task Management module 540, an Application Model Manager 542, a Display Controller, one or more frame buffers 548, a task stack 552, one or more window stacks 550 (which is a logical arrangement of windows and/or desktops in a display area), and/or an event buffer 556.

[0143] The MDM module 524 includes one or more modules that are operable to manage the display of applications or other data on the screens of the device. An embodiment of the MDM module 524 is described in conjunction with Fig. 5B. In embodiments, the MDM module 524 receives inputs from the other OS 516 components, such as, the drivers 512, and from the applications 564 to determine continually the state of the device 100. The inputs assist the MDM module 524 in determining how to configure and allocate the displays according to the application's preferences and requirements, and the user's actions. Once a determination for display configurations is made, the MDM module 524 can bind the applications 564 to a display. The configuration may then be provided to one or more other components to generate a window with a display.

[0144] The Surface Cache module 528 includes any memory or storage and the software associated therewith to store or cache one or more images of windows. A series of active and/or non-active windows (or other display objects, such as, a desktop display) can be associated with

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each display. An active window (or other display object) is currently displayed. A non-active windows (or other display objects) were opened and, at some time, displayed but are now not displayed. To enhance the user experience, before a window transitions from an active state to an inactive state, a "screen shot" of a last generated image of the window (or other display object) can be stored. The Surface Cache module 528 may be operable to store a bitmap of the last active image of a window (or other display object) not currently displayed. Thus, the Surface Cache module 528 stores the images of non-active windows (or other display objects) in a data store.

[0145] In embodiments, the Window Management module 532 is operable to manage the windows (or other display objects) that are active or not active on each of the displays. The Window Management module 532, based on information from the MDM module 524, the OS 516, or other components, determines when a window (or other display object) is visible or not active. The Window Management module 532 may then put a non-visible window (or other display object) in a "not active state" and, in conjunction with the Task Management module Task Management 540 suspends the application's operation. Further, the Window Management module 532 may assign, through collaborative interaction with the MDM module 524, a display identifier to the window (or other display object) or manage one or more other items of data associated with the window (or other display object). The Window Management module 532 may also provide the stored information to the application 564, the Task Management module 540, or other components interacting with or associated with the window (or other display object). The Window Management module 532 can also associate an input task with a window based on window focus and display coordinates within the motion space.

[0146] The Input Management module 536 is operable to manage events that occur with the device. An event is any input into the window environment, for example, a user interface interactions with a user. The Input Management module 536 receives the events and logically stores the events in an event buffer 556. Events can include such user interface interactions as a "down event," which occurs when a screen 104, 108 receives a touch signal from a user, a "move event," which occurs when the screen 104, 108 determines that a user's finger is moving across a screen(s), an "up event, which occurs when the screen 104, 108 determines that the user has stopped touching the screen 104, 108, etc. These events are received, stored, and forwarded to other modules by the Input Management module 536. The Input Management module 536 may

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also map screen inputs to a motion space which is the culmination of all physical and virtual display available on the device.

[0147] The motion space is a virtualized space that includes all touch sensitive displays 110,114 "tiled" together to mimic the physical dimensions of the device 100. For example, when the device 100 is unfolded, the motion space size may be 960x800, which may be the number of pixels in the combined display area for both touch sensitive displays 110, 114. If a user touches on a first touch sensitive display 110 on location (40, 40), a full screen window can receive touch event with location (40, 40). If a user touches on a second touch sensitive display 114, with location (40, 40), the full screen window can receive touch event with location (520, 40), because the second touch sensitive display 114 is on the right side of the first touch sensitive display 110, so the device 100 can offset the touch by the first touch sensitive display's 110 width, which is 480 pixels. When a hardware event occurs with location info from a driver 512, the framework 520 can up-scale the physical location to the motion space because the location of the event may be different based on the device orientation and state. The motion space may be as described in U.S. Patent Application No. 13/187,026, filed July 20, 2011, entitled "Systems and Methods for Receiving Gesture Inputs Spanning Multiple Input Devices," which is hereby incorporated by reference in its entirety for all that it teaches and for all purposes.

[0148] A task can be an application and a sub-task can be an application component that provides a window with which users can interact to do something, such as dial the phone, take a photo, send an email, or view a map. Each task may be given a window in which to draw a user interface. The window typically fills a display (for example, touch sensitive display 110,114), but may be smaller than the display 110,114 and float on top of other windows. An application usually consists of multiple sub-tasks that are loosely bound to each other. Typically, one task in an application is specified as the "main" task, which is presented to the user when launching the application for the first time. Each task can then start another task or sub-task to perform different actions.

[0149] The Task Management module 540 is operable to manage the operation of one or more applications 564 that may be executed by the device. Thus, the Task Management module 540 can receive signals to launch, suspend, terminate, etc. an application or application sub-tasks stored in the application store 560. The Task Management module 540 may then instantiate one or more tasks or sub-tasks of the application 564 to begin operation of the application 564.

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Further, the Task Management Module 540 may launch, suspend, or terminate a task or sub-task as a result of user input or as a result of a signal from a collaborating framework 520 component. The Task Management Module 540 is responsible for managing the lifecycle of applications (tasks and sub-task) from when the application is launched to when the application is terminated.

[0150] The processing of the Task Management Module 540 is facilitated by a task stack 552, which is a logical structure associated with the Task Management Module 540. The task stack 552 maintains the state of all tasks and sub-tasks on the device 100. When some component of the operating system 516 requires a task or sub-task to transition in its lifecycle, the OS 516 component can notify the Task Management Module 540. The Task Management Module 540 may then locate the task or sub-task, using identification information, in the task stack 552, and send a signal to the task or sub-task indicating what kind of lifecycle transition the task needs to execute. Informing the task or sub-task of the transition allows the task or sub-task to prepare for the lifecycle state transition. The Task Management Module 540 can then execute the state transition for the task or sub-task. In embodiments, the state transition may entail triggering the OS kernel 518 to terminate the task when termination is required.

[0151] Further, the Task Management module 540 may suspend the application 564 based on information from the Window Management Module 532. Suspending the application 564 may maintain application data in memory but may limit or stop the application 564 from rendering a window or user interface. Once the application becomes active again, the Task Management module 540 can again trigger the application to render its user interface. In embodiments, if a task is suspended, the task may save the task's state in case the task is terminated. In the suspended state, the application task may not receive input because the application window is not visible to the user.

[0152] The frame buffer 548 is a logical structure(s) used to render the user interface. The frame buffer 548 can be created and destroyed by the OS kernel 518. However, the Display Controller 544 can write the image data, for the visible windows, into the frame buffer 548. A frame buffer 548 can be associated with one screen or multiple screens. The association of a frame buffer 548 with a screen can be controlled dynamically by interaction with the OS kernel 518. A composite display may be created by associating multiple screens with a single frame buffer 548. Graphical data used to render an application's window user interface may then be written to the single frame buffer 548, for the composite display, which is output to the multiple

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screens 104,108. The Display Controller 544 can direct an application's user interface to a portion of the frame buffer 548 that is mapped to a particular display 110,114, thus, displaying the user interface on only one screen 104 or 108. The Display Controller 544 can extend the control over user interfaces to multiple applications, controlling the user interfaces for as many displays as are associated with a frame buffer 548 or a portion thereof. This approach compensates for the multiple physical screens 104,108 that are in use by the software component above the Display Controller 544.

[0153] The Application Manager 562 is an application that provides a presentation layer for the window environment. Thus, the Application Manager 562 provides the graphical model for rendering by the Task Management Module 540. Likewise, the Desktop 566 provides the presentation layer for the Application Store 560. Thus, the desktop provides a graphical model of a surface having selectable application icons for the Applications 564 in the Application Store 560 that can be provided to the Window Management Module 556 for rendering.

[0154] Further, the framework can include an Application Model Manager (AMM) 542. The Application Manager 562 may interface with the AMM 542. In embodiments, the AMM 542 receives state change information from the device 100 regarding the state of applications (which are running or suspended). The AMM 542 can associate bit map images from the Surface Cache Module 528 to the tasks that are alive (running or suspended). Further, the AMM 542 can convert the logical window stack maintained in the Task Manager Module 540 to a linear ("film strip" or "deck of cards") organization that the user perceives when the using the off gesture capture area 120 to sort through the windows. Further, the AMM 542 may provide a list of executing applications to the Application Manager 562.

[0155] An embodiment of the MDM module 524 is shown in Fig. 5B. The MDM module 524 is operable to determine the state of the environment for the device, including, but not limited to, the orientation of the device, whether the device 100 is opened or closed, what applications 564 are executing, how the applications 564 are to be displayed, what actions the user is conducting, the tasks being displayed, etc. To configure the display, the MDM module 524 interprets these environmental factors and determines a display configuration, as described in conjunction with Figs. 6A-6J. Then, the MDM module 524 can bind the applications 564 or other device components to the displays. The configuration may then be sent to the Display Controller 544 and/or the other components within the OS 516 to generate the display. The MDM module 524

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can include one or more of, but is not limited to, a Display Configuration Module 568, a Preferences Module 572, a Device State Module 574, a Gesture Module 576, a Requirements Module 580, an Event Module 584, and/or a Binding Module 588.

[0156] The Display Configuration Module 568 determines the layout for the display. In embodiments, the Display Configuration Module 568 can determine the environmental factors. The environmental factors may be received from one or more other MDM modules 524 or from other sources. The Display Configuration Module 568 can then determine from the list of factors the best configuration for the display. Some embodiments of the possible configurations and the factors associated therewith are described in conjunction with Figs. 6A-6F.

[0157] The Preferences Module 572 is operable to determine display preferences for an application 564 or other component. For example, an application can have a preference for Single or Dual displays. The Preferences Module 572 can determine an application's display preference (e.g., by inspecting the application's preference settings) and may allow the application 564 to change to a mode (e.g., single screen, dual screen, max, etc.) if the device 100 is in a state that can accommodate the preferred mode. However, some user interface policies may disallow a mode even if the mode is available. As the configuration of the device changes, the preferences may be reviewed to determine if a better display configuration can be achieved for an application 564.

[0158] The Device State Module 574 is operable to determine or receive the state of the device. The state of the device can be as described in conjunction with Figs. 3A and 3B. The state of the device can be used by the Display Configuration Module 568 to determine the configuration for the display. As such, the Device State Module 574 may receive inputs and interpret the state of the device. The state information is then provided to the Display Configuration Module 568.

[0159] The Gesture Module 576 is shown as part of the MDM module 524, but, in embodiments, the Gesture module 576 may be a separate Framework 520 component that is separate from the MDM module 524. In embodiments, the Gesture Module 576 is operable to determine if the user is conducting any actions on any part of the user interface. In alternative embodiments, the Gesture Module 576 receives user interface actions from the configurable area 112,116 only. The Gesture Module 576 can receive touch events that occur on the configurable area 112,116 (or possibly other user interface areas) by way of the Input Management Module

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536 and may interpret the touch events (using direction, speed, distance, duration, and various other parameters) to determine what kind of gesture the user is performing. When a gesture is interpreted, the Gesture Module 576 can initiate the processing of the gesture and, by collaborating with other Framework 520 components, can manage the required window animation. The Gesture Module 576 collaborates with the Application Model Manager 542 to collect state information with respect to which applications are running (active or paused) and the order in which applications must appear when a user gesture is performed. The Gesture Module 576 may also receive references to bitmaps (from the Surface Cache Module 528) and live windows so that when a gesture occurs it can instruct the Display Controller 544 how to move the window(s) across the display 110,114. Thus, suspended applications may appear to be running when those windows are moved across the display 110,114.

[0160] Further, the Gesture Module 576 can receive task information either from the Task Manage Module 540 or the Input Management module 536. The gestures may be as defined in conjunction with Figs. 4A through 4H. For example, moving a window causes the display to render a series of display frames that illustrate the window moving. The gesture associated with such user interface interaction can be received and interpreted by the Gesture Module 576. The information about the user gesture is then sent to the Task Management Module 540 to modify the display binding of the task.

[0161] The Requirements Module 580, similar to the Preferences Module 572, is operable to determine display requirements for an application 564 or other component. An application can have a set display requirement that must be observed. Some applications require a particular display orientation. For example, the application "Angry Birds" can only be displayed in landscape orientation. This type of display requirement can be determined or received, by the Requirements Module 580. As the orientation of the device changes, the Requirements Module 580 can reassert the display requirements for the application 564. The Display Configuration Module 568 can generate a display configuration that is in accordance with the application display requirements, as provided by the Requirements Module 580.

[0162] The Event Module 584, similar to the Gesture Module 576, is operable to determine one or more events occurring with an application or other component that can affect the user interface. Thus, the Event Module 584 can receive event information either from the event buffer 556 or the Task Management module 540. These events can change how the tasks are

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bound to the displays. The Event Module 584 can collect state change information from other Framework 520 components and act upon that state change information. In an example, when the phone is opened or closed or when an orientation change has occurred, a new message may be rendered in a secondary screen. The state change based on the event can be received and interpreted by the Event Module 584. The information about the events then may be sent to the Display Configuration Module 568 to modify the configuration of the display.

[0163] The Binding Module 588 is operable to bind the applications 564 or the other components to the configuration determined by the Display Configuration Module 568. A binding associates, in memory, the display configuration for each application with the display and mode of the application. Thus, the Binding Module 588 can associate an application with a display configuration for the application (e.g. landscape, portrait, multi-screen, etc.). Then, the Binding Module 588 may assign a display identifier to the display. The display identifier associated the application with a particular display of the device 100. This binding is then stored and provided to the Display Controller 544, the other components of the OS 516, or other components to properly render the display. The binding is dynamic and can change or be updated based on configuration changes associated with events, gestures, state changes, application preferences or requirements, etc.

[0164] User Interface Configurations:

[0165] With reference now to Figs. 6A-J, various types of output configurations made possible by the device 100 will be described hereinafter.

[0166] Figs. 6A and 6B depict two different output configurations of the device 100 being in a first state. Specifically, Fig. 6A depicts the device 100 being in a closed portrait state 304 where the data is displayed on the primary screen 104. In this example, the device 100 displays data via the touch sensitive display 110 in a first portrait configuration 604. As can be appreciated, the first portrait configuration 604 may only display a desktop or operating system home screen. Alternatively, one or more windows may be presented in a portrait orientation while the device 100 is displaying data in the first portrait configuration 604.

[0167] Fig. 6B depicts the device 100 still being in the closed portrait state 304, but instead data is displayed on the secondary screen 108. In this example, the device 100 displays data via the touch sensitive display 114 in a second portrait configuration 608.

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[0168] It may be possible to display similar or different data in either the first or second portrait configuration 604, 608. It may also be possible to transition between the first portrait configuration 604 and second portrait configuration 608 by providing the device 100 a user gesture (e.g., a double tap gesture), a menu selection, or other means. Other suitable gestures may also be employed to transition between configurations. Furthermore, it may also be possible to transition the device 100 from the first or second portrait configuration 604, 608 to any other configuration described herein depending upon which state the device 100 is moved.

[0169] An alternative output configuration may be accommodated by the device 100 being in a second state. Specifically, Fig. 6C depicts a third portrait configuration where data is displayed simultaneously on both the primary screen 104 and the secondary screen 108. The third portrait configuration may be referred to as a Dual-Portrait (PD) output configuration. In the PD output configuration, the touch sensitive display 110 of the primary screen 104 depicts data in the first portrait configuration 604 while the touch sensitive display 114 of the secondary screen 108 depicts data in the second portrait configuration 608. The simultaneous presentation of the first portrait configuration 604 and the second portrait configuration 608 may occur when the device 100 is in an open portrait state 320. In this configuration, the device 100 may display one application window in one display 110 or 114, two application windows (one in each display 110 and 114), one application window and one desktop, or one desktop. Other configurations may be possible. It should be appreciated that it may also be possible to transition the device 100 from the simultaneous display of configurations 604, 608 to any other configuration described herein depending upon which state the device 100 is moved. Furthermore, while in this state, an application's display preference may place the device into bilateral mode, in which both displays are active to display different windows in the same application. For example, a Camera application may display a viewfinder and controls on one side, while the other side displays a mirrored preview that can be seen by the photo subjects. Games involving simultaneous play by two players may also take advantage of bilateral mode.

[0170] Figs. 6D and 6E depicts two further output configurations of the device 100 being in a third state. Specifically, Fig. 6D depicts the device 100 being in a closed landscape state 340 where the data is displayed on the primary screen 104. In this example, the device 100 displays data via the touch sensitive display 110 in a first landscape configuration 612. Much like the

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other configurations described herein, the first landscape configuration 612 may display a desktop, a home screen, one or more windows displaying application data, or the like.

[0171] Fig. 6E depicts the device 100 still being in the closed landscape state 340, but instead data is displayed on the secondary screen 108. In this example, the device 100 displays data via the touch sensitive display 114 in a second landscape configuration 616. It may be possible to display similar or different data in either the first or second portrait configuration 612, 616. It may also be possible to transition between the first landscape configuration 612 and second landscape configuration 616 by providing the device 100 with one or both of a twist and tap gesture or a flip and slide gesture. Other suitable gestures may also be employed to transition between configurations. Furthermore, it may also be possible to transition the device 100 from the first or second landscape configuration 612, 616 to any other configuration described herein depending upon which state the device 100 is moved.

[0172] Fig. 6F depicts a third landscape configuration where data is displayed simultaneously on both the primary screen 104 and the secondary screen 108. The third landscape configuration may be referred to as a Dual-Landscape (LD) output configuration. In the LD output configuration, the touch sensitive display 110 of the primary screen 104 depicts data in the first landscape configuration 612 while the touch sensitive display 114 of the secondary screen 108 depicts data in the second landscape configuration 616. The simultaneous presentation of the first landscape configuration 612 and the second landscape configuration 616 may occur when the device 100 is in an open landscape state 340. It should be appreciated that it may also be possible to transition the device 100 from the simultaneous display of configurations 612, 616 to any other configuration described herein depending upon which state the device 100 is moved.

[0173] Figs. 6G and 6H depict two views of a device 100 being in yet another state. Specifically, the device 100 is depicted as being in an easel state 312. Fig. 6G shows that a first easel output configuration 618 may be displayed on the touch sensitive display 110. Fig. 6H shows that a second easel output configuration 620 may be displayed on the touch sensitive display 114. The device 100 may be configured to depict either the first easel output configuration 618 or the second easel output configuration 620 individually. Alternatively, both the easel output configurations 618, 620 may be presented simultaneously. In some embodiments, the easel output configurations 618, 620 may be similar or identical to the landscape output configurations 612, 616. The device 100 may also be configured to display one

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or both of the easel output configurations 618, 620 while in a modified easel state 316. It should be appreciated that simultaneous utilization of the easel output configurations 618, 620 may facilitate two-person games (e.g., Battleship®, chess, checkers, etc.), multi-user conferences where two or more users share the same device 100, and other applications. As can be appreciated, it may also be possible to transition the device 100 from the display of one or both configurations 618, 620 to any other configuration described herein depending upon which state the device 100 is moved.

[0174] Fig. 6I depicts yet another output configuration that may be accommodated while the device 100 is in an open portrait state 320. Specifically, the device 100 may be configured to present a single continuous image across both touch sensitive displays 110, 114 in a portrait configuration referred to herein as a Portrait-Max (PMax) configuration 624. In this configuration, data (e.g., a single image, application, window, icon, video, etc.) may be split and displayed partially on one of the touch sensitive displays while the other portion of the data is displayed on the other touch sensitive display. The Pmax configuration 624 may facilitate a larger display and/or better resolution for displaying a particular image on the device 100. Similar to other output configurations, it may be possible to transition the device 100 from the Pmax configuration 624 to any other output configuration described herein depending upon which state the device 100 is moved.

[0175] Fig. 6J depicts still another output configuration that may be accommodated while the device 100 is in an open landscape state 348. Specifically, the device 100 may be configured to present a single continuous image across both touch sensitive displays 110, 114 in a landscape configuration referred to herein as a Landscape-Max (LMax) configuration 628. In this configuration, data (e.g., a single image, application, window, icon, video, etc.) may be split and displayed partially on one of the touch sensitive displays while the other portion of the data is displayed on the other touch sensitive display. The Lmax configuration 628 may facilitate a larger display and/or better resolution for displaying a particular image on the device 100. Similar to other output configurations, it may be possible to transition the device 100 from the Lmax configuration 628 to any other output configuration described herein depending upon which state the device 100 is moved.

[0176] The device 100 manages desktops and/or windows with at least one window stack 700, 728, as shown in Figs. 7A and 7B. A window stack 700, 728 is a logical arrangement of active

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and/or inactive windows for a multi-screen device. For example, the window stack 700, 728 may be logically similar to a deck of cards, where one or more windows or desktops are arranged in order, as shown in Figs. 7A and 7B. An active window is a window that is currently being displayed on at least one of the touch sensitive displays 110, 114. For example, windows 104 and 108 are active windows and are displayed on touch sensitive displays 110 and 114. An inactive window is a window that was opened and displayed but is now "behind" an active window and not being displayed. In embodiments, an inactive window may be for an application that is suspended, and thus, the window is not displaying active content. For example, windows 712, 716, 720, and 724 are inactive windows.

[0177] A window stack 700, 728 may have various arrangements or organizational structures. In the embodiment shown in Fig. 7A, the device 100 includes a first stack 760 associated with a first touch sensitive display 110 and a second stack associated with a second touch sensitive display 114. Thus, each touch sensitive display 110, 114 can have an associated window stack 760, 764. These two window stacks 760, 764 may have different numbers of windows arranged in the respective stacks 760, 764. Further, the two window stacks 760, 764 can also be identified differently and managed separately. Thus, the first window stack 760 can be arranged in order from a first window 704 to a next window 720 to a last window 724 and finally to a desktop 722, which, in embodiments, is at the "bottom" of the window stack 760. In embodiments, the desktop 722 is not always at the "bottom" as application windows can be arranged in the window stack below the desktop 722, and the desktop 722 can be brought to the "top" of a stack over other windows during a desktop reveal. Likewise, the second stack 764 can be arranged from a first window 708 to a next window 712 to a last window 716, and finally to a desktop 718, which, in embodiments, is a single desktop area, with desktop 722, under all the windows in both window stack 760 and window stack 764. A logical data structure for managing the two window stacks 760, 764 may be as described in conjunction with Fig. 8.

[0178] Another arrangement for a window stack 728 is shown in Fig. 7B. In this embodiment, there is a single window stack 728 for both touch sensitive displays 110, 114. Thus, the window stack 728 is arranged from a desktop 758 to a first window 744 to a last window 756. A window can be arranged in a position among all windows without an association to a specific touch sensitive display 110, 114. In this embodiment, a window is in the order of windows. Further, at least one window is identified as being active. For example, a single window may be rendered in

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two portions 732 and 736 that are displayed on the first touch sensitive screen 110 and the second touch sensitive screen 114. The single window may only occupy a single position in the window stack 728 although it is displayed on both displays 110, 114.

[0179] Yet another arrangement of a window stack 760 is shown in Figs. 7C through 7E. The window stack 760 is shown in three "elevation" views. In Fig. 7C, the top of the window stack 760 is shown. Two sides of the window stack 760 are shown in Figs. 7D and 7E. In this embodiment, the window stack 760 resembles a stack of bricks. The windows are stacked on each other. Looking from the top of the window stack 760 in Fig, 7C, only the top most windows in the window stack 760 are seen in different portions of the composite display 764. The composite display 764 represents a logical model for the entire display area of the device 100, which can include touch sensitive display 110 and touch sensitive display 114. A desktop 786 or a window can occupy part or all of the composite display 764.

[0180] In the embodiment shown, the desktop 786 is the lowest display or "brick" in the window stack 760. Thereupon, window 1 782, window 2 782, window 3 768, and window 4 770 are layered. Window 1 782, window 3 768, window 2 782, and window 4 770 only occupy a portion of the composite display 764. Thus, another part of the stack 760 includes window 8 774 and windows 5 through 7 shown in section 790. Only the top window in any portion of the composite display 764 is actually rendered and displayed. Thus, as shown in the top view in Fig. 7C, window 4 770, window 8 774, and window 3 768 are displayed as being at the top of the display in different portions of the window stack 760. A window can be dimensioned to occupy only a portion of the composite display 760 to "reveal" windows lower in the window stack 760. For example, window 3 768 is lower in the stack than both window 4 770 and window 8 774 but is still displayed. A logical data structure to manage the window stack can be as described in conjunction with Fig. 8.

[0181] When a new window is opened, the newly activated window is generally positioned at the top of the stack. However, where and how the window is positioned within the stack can be a function of the orientation of the device 100, the context of what programs, functions, software, etc. are being executed on the device 100, how the stack is positioned when the new window is opened, etc. To insert the window in the stack, the position in the stack for the window is determined and the touch sensitive display 110, 114 to which the window is associated may also be determined. With this information, a logical data structure for the window can be created and

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stored. When user interface or other events or tasks change the arrangement of windows, the window stack(s) can be changed to reflect the change in arrangement. It should be noted that these same concepts described above can be used to manage the one or more desktops for the device 100.

[0182] A logical data structure 800 for managing the arrangement of windows or desktops in a window stack is shown in Fig. 8. The logical data structure 800 can be any data structure used to store data whether an object, record, file, etc. The logical data structure 800 can be stored in any type of database or data storage system, regardless of protocol or standard. In embodiments, the logical data structure 800 includes one or more portions, fields, attributes, etc. that store data in a logical arrangement that allows for easy storage and retrieval of the information. Hereinafter, these one or more portions, fields, attributes, etc. shall be described simply as fields. The fields can store data for a window identifier 804, dimensions 808, a stack position identifier 812, a display identifier 816, and/or an active indicator 820. Each window in a window stack can have an associated logical data structure 800. While only a single logical data structure 800 is shown in Fig. 8, there may be more or fewer logical data structures 800 used with a window stack (based on the number of windows or desktops in the stack), as represented by ellipses 824. Further, there may be more or fewer fields than those shown in Fig. 8, as represented by ellipses 828.

[0183] A window identifier 804 can include any identifier (ID) that uniquely identifies the associated window in relation to other windows in the window stack. The window identifier 804 can be a globally unique identifier (GUID), a numeric ID, an alphanumeric ID, or other type of identifier. In embodiments, the window identifier 804 can be one, two, or any number of digits based on the number of windows that can be opened. In alternative embodiments, the size of the window identifier 804 may change based on the number of windows opened. While the window is open, the window identifier 804 may be static and remain unchanged.

[0184] Dimensions 808 can include dimensions for a window in the composite display 760. For example, the dimensions 808 can include coordinates for two or more corners of the window or may include one coordinate and dimensions for the width and height of the window. These dimensions 808 can delineate what portion of the composite display 760 the window may occupy, which may the entire composite display 760 or only part of composite display 760. For example, window 4 770 may have dimensions 880 that indicate that the window 770 will occupy

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only part of the display area for composite display 760, as shown in Figs. 7c through 7E. As windows are moved or inserted in the window stack, the dimensions 808 may change.

[0185] A stack position identifier 812 can be any identifier that can identify the position in the stack for the window or may be inferred from the window's control record within a data structure, such as a list or a stack. The stack position identifier 812 can be a GUID, a numeric ID, an alphanumeric ID, or other type of identifier. Each window or desktop can include a stack position identifier 812. For example, as shown in Fig. 7A, window 1 704 in stack 1 760 can have a stack position identifier 812 of 1 identifying that window 704 is the first window in the stack 760 and the active window. Similarly, window 6 724 can have a stack position identifier 812 of 3 representing that window 724 is the third window in the stack 760. Window 2 708 can also have a stack position identifier 812 of 1 representing that window 708 is the first window in the second stack 764. As shown in Fig. 7B, window 1 744 can have a stack position identifier 812 of 1, window 3, rendered in portions 732 and 736, can have a stack position identifier 812 of 3, and window 6 756 can have a stack position identifier 812 of 6. Thus, depending on the type of stack, the stack position identifier 812 can represent a window's location in the stack.

[0186] A display identifier 816 can identify that the window or desktop is associated with a particular display, such as the first display 110 or the second display 114, or the composite display 760 composed of both displays. While this display identifier 816 may not be needed for a multi-stack system, as shown in Fig. 7A, the display identifier 816 can indicate whether a window in the serial stack of Fig. 7B is displayed on a particular display. Thus, window 3 may have two portions 732 and 736 in Fig. 7B. The first portion 732 may have a display identifier 816 for the first display while the second portion 736 may have a display identifier 816 for the second display 114. However, in alternative embodiments, the window may have two display identifier 816 that represent that the window is displayed on both of the displays 110, 114, or a display identifier 816 identifying the composite display. In another alternate embodiment, the window may have a single display identifier 816 to represent that the window is displayed on both of the displays 110, 114.

[0187] Similar to the display identifier 816, an active indicator 820 may not be needed with the dual stack system of Fig. 7A, as the window in stack position 1 is active and displayed. In the system of Fig. 7B, the active indicator 820 can indicate which window(s) in the stack is being displayed. Thus, window 3 may have two portions 732 and 736 in Fig. 7. The first portion 732

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may have an active indicator 820 while the second portion 736 may also have an active indicator 820. However, in alternative embodiments, window 3 may have a single active indicator 820. The active indicator 820 can be a simple flag or bit that represents that the window is active or displayed.

[0188] An embodiment of a method 900 for creating a window stack is shown in Fig. 9. While a general order for the steps of the method 900 is shown in Fig. 9. Generally, the method 900 starts with a start operation 904 and ends with an end operation 928. The method 900 can include more or fewer steps or can arrange the order of the steps differently than those shown in Fig. 9. The method 900 can be executed as a set of computer-executable instructions executed by a computer system and encoded or stored on a computer readable medium. Hereinafter, the method 900 shall be explained with reference to the systems, components, modules, software, data structures, user interfaces, etc. described in conjunction with Figs. 1-8.

[0189] A multi-screen device 100 can receive activation of a window, in step 908. In embodiments, the multi-screen device 100 can receive activation of a window by receiving an input from the touch sensitive display 110 or 114, the configurable area 112 or 116, a gesture capture region 120 or 124, or some other hardware sensor operable to receive user interface inputs. The processor may execute the Task Management Module 540 may receive the input. The Task Management Module 540 can interpret the input as requesting an application task to be executed that will open a window in the window stack.

[0190] In embodiments, the Task Management Module 540 places the user interface interaction in the task stack 552 to be acted upon by the Display Configuration Module 568 of the Multi-Display Management Module 524. Further, the Task Management Module 540 waits for information from the Multi-Display Management Module 524 to send instructions to the Window Management Module 532 to create the window in the window stack.

[0191] The Multi-Display Management Module 524, upon receiving instruction from the Task Management Module 540, determines to which touch portion of the composite display 760, the newly activated window should be associated, in step 912. For example, window 4 770 is associated with the a portion of the composite display 764 In embodiments, the device state module 574 of the Multi-Display Management Module 524 may determine how the device is oriented or in what state the device is in, e.g., open, closed, portrait, etc. Further, the preferences module 572 and/or requirements module 580 may determine how the window is to be displayed.

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The gesture module 576 may determine the user's intentions about how the window is to be opened based on the type of gesture and the location of where the gesture is made.

[0192] The Display Configuration Module 568 may use the input from these modules and evaluate the current window stack 760 to determine the best place and the best dimensions, based on a visibility algorithm, to open the window. Thus, the Display Configuration Module 568 determines the best place to put the window at the top of the window stack 760, in step 916. The visibility algorithm, in embodiments, determines for all portions of the composite display, which windows are at the top of the stack. For example, the visibility algorithm determines that window 3 768, window 4 770, and window 8 774 are at the top of the stack 760 as viewed in Figs. 7C through 7E. Upon determining where to open the window, the Display Configuration Module 568 can assign a display identifier 816 and possibly dimensions 808 to the window. The display identifier 816 and dimensions 808 can then be sent back to the Task Management Module 540. The Task Management Module 540 may then assign the window a stack position identifier 812 indicating the windows position at the top of the window stack.

[0193] In embodiments, the Task Management Module 540 sends the window stack information and instructions to render the window to the Window Management Module 532. The Window Management Module 532 and the Task Management Module 540 can create the logical data structure 800, in step 924. Both the Task Management Module 540 and the Window Management Module 532 may create and manage copies of the window stack. These copies of the window stack can be synchronized or kept similar through communications between the Window Management Module 532 and the Task Management Module 540. Thus, the Window Management Module 532 and the Task Management Module 540, based on the information determined by the Multi-Display Management Module 524, can assign dimensions 808, a stack position identifier 812 (e.g., window 1 782, window 4 770, etc.), a display identifier 816 (e.g., touch sensitive display 1 110, touch sensitive display 2 114, composite display identifier, etc,), and an active indicator 820, which is generally always set when the window is at the "top" of the stack. The logical data structure 800 may then be stored by both the Window Management Module 532 and the Task Management Module 540. Further, the Window Management Module 532 and the Task Management Module 540may thereinafter manage the window stack and the logical data structure(s) 800.

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[0194] An embodiment of a method 1000 for executing an application is shown in Fig. 10. While a general order for the steps of the method 1000 is shown in Fig. 10. Generally, the method 1000 starts with a start operation 1004 and ends with an end operation 1040. The method 1000 can include more or fewer steps or can arrange the order of the steps differently than those shown in Fig. 10. The method 1000 can be executed as a set of computer-executable instructions executed by a computer system and encoded or stored on a computer readable medium. Hereinafter, the method 1000 shall be explained with reference to the systems, components, modules, software, data structures, user interfaces, etc. described in conjunction with Figs. 1-9.

[0195] An application is executed, in step 1008. In embodiments, a processor 204 receives indication to execute an application through a user interface 110, 114, 112, 116, etc. The indication can be a selection of an icon associated with the application. In other embodiments, the indication can be a signal generated from another application or event, such as receiving an e-mail or other communication, which causes the application to execute automatically. The processor 204 can retrieve the application 564a from the application store 560 and begin its execution. In executing the application 564a, a user interface can be generated for a user, as described in conjunction with Figs. 11-61D.

[0196] In creating a user interface, the application 564a can begin executing to create a manifest, in step 1012. A manifest is a data structure that indicates the capabilities of the application 564a. The manifest can generally be created from the resources in the resources directory of the application 564a. The resources directory can indicate the types of modes, locations, or other indications for how the user interface should be configured in the multi-display device 100. For example, the several modes can include: "classic mode" that indicates that the application 564a is capable of being displayed on a single screen or display 110/114; "dual mode" that indicates that the application 564a is capable of being displaced on two or more displays110 and 114; "max mode" that indicates the application 564a is capable of being displayed or desires to be displayed across multiple displays 110 and 114; and/or "bilateral mode" that indicates that the application 564a is capable of being displayed on 2 or more displays 110 and 114 when the device 100 is in easel mode (see Figs. 1I and/or 1J).

[0197] Similarly, the manifest can include a desired or allowed location within the displays 110/114. The possible locations can include: "left", which indicates that the application 564a

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desires to be displayed on the left display 110; "right", which indicates that the application 564a desires to be displayed on the right display 114; and/or other indications of where a location should be including possible "top" and/or "bottom" of one or more of the displays 110/114.

[0198] The application 564a can also indicate that it desires to be displayed in a "minimum" window, which is a window that occupies less than the full area of a single display. There may be other modes possible for the application 564a, which may be included in the manifest. The manifest can be sent from the application 564a to the multi-display management module 524.

[0199] The multi-display management module 524 can receive the manifest, in step 1016. In receiving the manifest, the multi-display management module 524 can use the information to determine a display binding for the application 564a. The manifest may be received more than once from the application 564a based on changes in how the application 564a is being executed, where the application 564a desires to have a different display setting for the new mode. Thus, with the manifest, the application 564a can indicate to the multi-display management module 524 how best to or what is the desired for the application's user interface. The multi-display management module 524 can use the information in the manifest to determine the best fit for the user interface depending on how the device 100 is currently configured.

[0200] The multi-display management module 524 can determine the application display mode, in step 1020. Here the multi-display management module 524 receives or retrieves an indication of the device 100 configuration. For example, the multi-display management module 524 can determine if the device is in single display configuration (see Fig. 6A, 6B, 6D, or 6E), dual display configuration (see Fig. 6C or 6F), bilateral display configuration (see Fig. 6G or 6H), or one of the other display configurations (see Fig. 6I or 6J).

[0201] Further, the multi-display management module 524 can determine if the device 100 is in a portrait or landscape orientation. With this information, the multi-display management module 524 may then consider the capabilities or preferences listed for the application 564a in the received manifest. The combined information may then allow the multi-display management module 524 to determine a display binding. The display binding can include which of the one or more displays 110 and/or 114 are going to be used to display the application's user interface(s). For example, the multi-display management module 524 can determine that the primary display 110, the secondary display 114, or all displays 110 and 114 of the device 100 will be used to display the application's user interface.

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[0202] The display modes setting can be assigned by creating or setting a number in the display binding. This number can be "0" for the primary display 110, "1" for the secondary display 114, or "2" for dual displays 110 and 114. The display mode setting can also indicate if the application 564a should display the user interface in portrait or landscape orientation. Further, there may be other settings, for example, providing a max mode or other setting that may indicate how the application 564a is to be displayed on the device. The display binding information is stored in a data structure to create and set a binding, in step 1024.

[0203] The established display binding may then be provided, by the multi-display management module 524, to the application 564a, in step 1028. The provided display binding data structure can become an attribute of the application 564a. An application 564a may thereinafter store the display binding attribute in the memory of the device 100. The application 564a with the display binding may then generate a user interface based on this display binding. The application 564a may be unaware of the position of the display 110/114 but may, from the display binding, be able to determine the size of the available user interface to generate a window that has particular characteristics for that display setting.

[0204] When a configuration change happens to the device 100, the multi-display management module 524 may change the display binding and send a new display binding to the application 564a. In embodiments, the multi-display management module 524 may indicate to the application 564a that there is a new binding or, in other embodiments, the application 564a may request a display configuration change or a new display binding, in which case the multi-display management module 524 may send a new display binding to the application 564a. Thus, the multi-display management module 524 can change the configuration of the display for the application 564a by altering the display binding for the application 564a during the execution of that application 564a.

[0205] The multi-display management module 524 thereinafter, while the application 564a is executing, can determine if there has been a configuration change to the device 100, in step 1032. The configuration change may be an event (see Fig. 3A and 3B) triggered by one or more signals from one or more hardware sensor 172, 176, etc. For example, if the device 100 is changed from portrait 304 to landscape 340 orientation, Hall effect sensors 172 may indicate to the framework 520 that a display configuration change has been made. Other changes may include transitions from a single display 304 to a dual display configuration 320, by opening the

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device. Other types of configuration changes may be possible and may be signaled to alert the multi-display management module 524 of the configuration change. If a configuration change has been made, the method 1000 proceeds YES to step 1020 so that the multi-display management module 524 can determine new application display mode settings and create a new display binding, which may be passed to the application 564a. If there are no configuration changes, the method 1000 precedes NO to step 1036.

[0206] In step 1036, a new application mode change may be determined. Application mode changes can also occur in the application 564a, and thus, the application 564a can determine if something has occurred within the application 564a that requires a different display setting. Modes are described hereinafter with respect to Fig. 12. The mode change can create a desire to change the display 110/114, and thus, require the application 564a to generate a new manifest. If the application 564a does sense a mode change or an event has occurred that requires a change in display setting, the method 1000 proceeds YES back to step 1012. At step 1012, a new manifest or preference is created by the application 564a that may be received by the multi-display management module 524 to determine if the multi-display management module 524 can change the display binding. If it is possible to provide the preferred display, the multi-display management module 524 can create a new display binding and send display binding back to the application 564a and allow the application 564a to alter its user interface. If no mode change is sensed or an event is not received to create a mode change, the method 1000 proceeds NO to end operation 1040.

[0207] An example of an image capture feature or application 1100 is shown in Fig. 11. An image capture feature 1100 can acquire static images, such as pictures, and/or dynamic images, such as videos. The image capture feature 1100 can be displayed on one or more screens 110, 114 of the device 100. The image capture feature 1100 may have one or more user selectable buttons or icons. For example, selectable icon 1104 may be touched to zoom into an image or to do some other function. A field 1108, within an image capture window 1116, can display a preview of the image that the user desires to capture. A menu or control bar 1112 can include one or more user selectable icons or buttons to provide different functionality to the image capture feature 1100. For example, button and slide bar 1124 allow the user to switch from capturing pictures to capturing video. User selectable device 1128, when selected, begins the image acquisition whether the image is a picture or a video. Further, a gallery 1120, showing

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thumbnails of previously captured pictures or videos, may be provided on the control bar 1112. Other buttons, such as user selectable button or icon 1132, allows the user to switch between image capture modes, as discussed herein, such as the forward facing or rear facing image capture modes.

[0208] In a dual screen portrait orientation, as shown in Fig. 12, the image capture feature 1100 may include a first display 1200 and a second display 1204. The first display 1200 may be similar or the same as that described in Fig. 11. A second screen 1204 might provide a gallery of recently acquired images. For example, an thumbnail or other display feature 1208 may represent one of the recently acquired videos or images. A set of one or more user selectable icons 1212 allow the user to conduct functions on the image or image representation 1208.

[0209] The display 1204 may be navigable as it may be slid or be moved, with user interface input, to view or select other images. The number of images displayed within the user navigable display 1204 may be limited. There may be only a select number of images that can be displayed or selected by the user in display 1204. To view other images not currently shown, the user may need to navigate within the display 1204 or select a gallery function. A gallery function may be provided to view all images that have been acquired by the image capture function 1100, as described hereinafter.

[0210] An embodiment of a method 1300 for executing an application is shown in Fig. 13. While a general order for the steps of the method 1300 is shown in Fig. 13. Generally, the method 1300 starts with a start operation 1304 and ends with an end operation 1332. The method 1300 can include more or fewer steps or can arrange the order of the steps differently than those shown in Fig. 13. The method 1300 can be executed as a set of computer-executable instructions executed by a computer system and encoded or stored on a computer readable medium. Hereinafter, the method 1300 shall be explained with reference to the systems, components, modules, software, data structures, user interfaces, etc. described in conjunction with Figs. 1-16B.

[0211] In a first device configuration, the device 100 may have a first screen 110 and a second screen 114 and the device 100 may be in a closed state as described herein. In this closed state, the first and second screens 110, 114 may face opposite directions. In a first display mode, a first window may be provided or presented on a first screen 110. While in this mode, the device 100 may receive an input from a user. The input received can request the execution of image

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capture function 1100, in step 1308. The device 100 can determine an image capture function 1100 configuration based on the devices state and display mode, in step 1312. The device 100 can determine a devices orientation, in step 1316, a device state, in step 1320, and a device image capture mode, in step 1324. Based on the determined orientation, state, and image capture mode, the device 100 may enter an image capture mode that is presented to the user, in step 1328.

[0212] At some time thereinafter, while remaining in the image capture mode, the device 100 may receive an orientation change. The orientation change can include a rotation of the device 100, the device 100 moving from a closed state to an open state, or from an open state to a closed state. The rotation of the device 100 may be from portrait to landscape or from landscape to portrait, or the device 100 may be flipped such that the screens face different directions from their original configuration. When received, and based on the new orientation, the device 100 may present a new image capture mode by providing a different type of display for the image capture function 1100 1110. A least a portion of the first and/or second screen 110, 114 change from the original display to the new display.

[0213] A first set of modes is shown in Figs. 14A through 16B. In Figs. 14A through 16B, the device 100 is in a closed state and landscape orientation. The image capture mode 1400 is to capture an outward facing image (e.g. a scene in front of the user). Further, while in the outward facing image mode, three or more different configurations for the image capture feature 1100 may be presented.

[0214] For example, as shown in Fig. 14A, the second screen 114, facing the user, shows a preview 1404 in the window 114. The control bar 1112 is arranged vertically along the right side of the display window 1100. The first screen 110, which faces the scene to be captured in the image, is shown in Fig. 14B. The second display 1408 is disabled and is not displaying anything. As such, display 1408 is is blank in this configuration and is viewed as a black screen by anyone in front of the user.

[0215] In a second configuration 1500 shown in Figs. 15A and 15B, the preview 1404 is again shown in screen 114. In contrast to Fig. 14B, an image 1504 is displayed in the first screen 110, as shown in Fig. 15B. The first screen 110 shows an image that looks like a camera lens to anyone in front of the user. Thus, the party in the scene to be captured is presented with a visual indicia that indicates a picture or image is being taken.

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[0216] Still another configuration is presented in Figs. 16A and 16B. In Fig. 16A, a second screen 114 again shows the preview 1404 as described in Figs. 14A and 15A. However, the first screen 110 also displays a preview 1604 to the party in the scene to be captured. As such, the preview is displayed both on the first screen 110 and the second screen 114. This configuration allows the party who is having their image taken to preview or see what image is being captured.

[0217] These different outward facing configurations allow the user to select different functions that are best suited for the image being captured. For example, the dual preview screens presented in Figs. 16A and 16B allow a user to provide a camera to a third party and still preview the image although they may not be taking the picture.

[0218] An embodiment of a method 1700 for executing an application is shown in Fig. 17. While a general order for the steps of the method 1700 is shown in Fig. 17. Generally, the method 1700 starts with a start operation 1704 and ends with an end operation 1732. The method 1700 can include more or fewer steps or can arrange the order of the steps differently than those shown in Fig. 17. The method 1700 can be executed as a set of computer-executable instructions executed by a computer system and encoded or stored on a computer readable medium. Hereinafter, the method 1700 shall be explained with reference to the systems, components, modules, software, data structures, user interfaces, etc. described in conjunction with Figs. 1-18.

[0219] A next mode available with the image capture function 1100 may be a self-portrait mode. Similar to the method described in conjunction with Fig. 13, the device 100 may receive user input to execute an image capture function 1100, in step 1708. The input may be received in a device 100 that has at least the first screen 110 and second screen 114. The device 100 may then make one or more determinations. For example, the device 100 may determine an image capture function 1100 configuration, in step 1712. The image capture function 1100 configuration may be a self-portrait mode. Further, the device 100 may determine the devices orientation, in step 1716, as described herein. The device 100 may also determine a devices state, in step 1720. From these different determinations the device 100 may then determine that the image capture mode is for a self-portrait, in step 1724. Based on the determination that the device is un a self-portrait mode, the device 100 may enter the self-portrait configuration, in step 1728.

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[0220] An example of a self-portrait configuration 1800 is as shown in Fig. 18. The device 100 configuration 1800 may provide a preview screen 1804. To limit the amount of hardware provided with the device 100, there may be a single lens or other hardware used to capture the image, as shown in Figs. 1A-1J. As shown in Fig. 11, the lens 1136 is associated with the first screen 110. Thus, to accomplish a self-portrait, the first screen 110 must face the user. This device orientation is in contrast to what is shown in Figs. 14A through 16B where the lens faces away from the user to attain an outward facing image. Further, the device 100 may be in the closed state in landscape orientation such that the lens associated with the screen is pointing towards the user.

[0221] The other screen 114 may be disabled. Thus, the second screen 114 cannot receive user input while the device is a self-portrait mode. Prohibiting user input on the second screen 114 prevents inadvertent interfere with the capture of the self-portrait. Thus, the preview 1804 and all the controls 1112 for capturing the self-image are facing the user while nothing is displayed away from the user. The control bar 1112 is also provided in the single screen 110 with the preview 1804. Thus, the device 100 may allow for the user to enter user interface input while in the self-portrait mode with the screen 110 facing the user, as shown in Fig. 18.

[0222] It should be noted that to switch between the different modes as described in Figs. 13 through 18, different user interfaces inputs may be received. For example, the user interface input to change the display on the outward facing screen, as shown in Figs. 14A through 16B, may include one or more inputs or gestures into a gesture capture region 120, 124, as described herein. For example, the input can be two or more taps in the gesture capture region 120, 124 to change the display on the outward facing screen 110. Alternatively, the taps may be to switch from an outward facing image to a self-portrait. The taps or the sequence of taps may cause the device 100 to present other user interfaces or windows that allow the user to acknowledge a desire to switch to the other screen or change the configuration of the device 100.

[0223] The user may then select an icon or user selectable device, within the presented window, to switch to the desired configuration where the device 100 will execute a change of the displays in response to the selection of the icon. The user may also select a second user interface device in the presented window, to cancel the switch in the configuration, and thus, acknowledge that the taps or user interface input may be inadvertent.

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[0224] Input may also be received outside the gesture capture region 120, 124 that can request a switch to a second screen 114 or change a display. The gesture capture region 120, 124 may be on a first screen 110 and/or a second screen 114, as described herein. The change of displays may also include a determination of the state of the phone, such that, the state of the phone may provide different display configurations for the image capture function 1100. One of the device state changes, which may cause a different display configuration, is a switch from a single screen view, as shown in Fig. 11, to a dual screen view, as shown in Fig. 12.

[0225] An embodiment of a method 1900 for executing an application is shown in Fig. 19. While a general order for the steps of the method 1900 is shown in Fig. 19. Generally, the method 1900 starts with a start operation 1904 and ends with an end operation 1932. The method 1900 can include more or fewer steps or can arrange the order of the steps differently than those shown in Fig. 19. The method 1900 can be executed as a set of computer-executable instructions executed by a computer system and encoded or stored on a computer readable medium. Hereinafter, the method 1900 shall be explained with reference to the systems, components, modules, software, data structures, user interfaces, etc. described in conjunction with Figs. 1-20.

[0226] The device 100 may receive user input to execute the image capture function 1100, in step 1908. The device 100 can have at least a first screen 110 and second screen 114 and execute the image capture function 1100 upon receiving the user input. In order to determine how to display the image capture function 1100 in the device 100, the device 100 may determine an image capture function 1100 mode, in step 1912. The image capture function 1100 mode 1100 can be such items as self-portrait mode, outward facing mode, or other types of modes.

[0227] The device 100 may also determine a device orientation, in step 1916. The devices orientation may be portrait, landscape, or other types of device configurations. The device 100 may also determine a device state, in step 1920. The device state may include whether the device 100 is opened or closed or other types of orientations. The device orientation and state are described further herein. Through these different determinations, the device 100 may determine that the image capture mode is for a dual screen configuration, in step 1924. Upon determining that the image capture mode is a dual screen configuration, the device 100 may enter the dual screen configuration, in step 1928.

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[0228] While in the dual screen configuration, the device 100 is in an open state and may be in a landscape or portrait orientation. An example of the dual screen portrait orientation is shown in Fig. 12. An example of the dual screen landscape orientation 2000 is shown in Fig. 20. The lens 168 may be associated with either a first or second screen 110, 114 but, as an example, is shown only associated with the first screen 110, in Fig. 20.

[0229] While in the dual screen orientation, the image capture function 1100 presents an inward facing image 2004 and may be in a self-portrait mode. A first screen 110 may display a preview 2004 of the image to be acquired in the self-portrait mode. The second screen 114 may provide for a film roll 1204 that displays one or more previously acquired images. The second screen 114 may provide a display for a last image acquired. Thus, instead of a film roll 2008, the second display 114 may provide for an image displayed across the entire second screen 114. In still other configurations, a preview of an image to be acquired may be presented across both the first and second screens 110, 114, such that the image is larger than what is normally shown in the a single screen view.

[0230] An embodiment of a method 2100 for executing an application is shown in Fig. 21. While a general order for the steps of the method 2100 is shown in Fig. 21. Generally, the method 2100 starts with a start operation 2104 and ends with an end operation 2124. The method 2100 can include more or fewer steps or can arrange the order of the steps differently than those shown in Fig. 21. The method 2100 can be executed as a set of computer-executable instructions executed by a computer system and encoded or stored on a computer readable medium. Hereinafter, the method 2100 shall be explained with reference to the systems, components, modules, software, data structures, user interfaces, etc. described in conjunction with Figs. 1-20.

[0231] While in the dual screen mode, device orientation changes may be received. For example, the dual screen orientation as shown in Fig. 12 may change to that shown in Fig. 20 when the device 100 is rotated either clockwise or counterclockwise. Thus, the device 100 may receive a user input to execute an image capture function 1100, in step 2108. A first display 1200 may be presented for the image capture function 1100, in step 2112, as described hereinbefore in Figs. 13 through 19. After presenting the first display 1200 for the image capture function 1100, the device 100 may receive a rotation of the device 100, in step 2116. In response

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to the rotation of the device 100, the device 100 may present a second display 2000 for the image capture function 1100 that is different from the first display 1200, in step 2120.

[0232] The image capturing function may be configured to be in a dual screen orientation capturing an inward facing image, as shown in Fig. 12. Thus, the device 100 is in an open state and the first display 1200 is in a portrait orientation. With the rotation, the display can change to a landscape orientation 2000, as shown in Fig. 20. One or more portions of the display may change due to the rotation. For example, the preview image 1108, shown in Fig. 12, changes to a landscape orientation 2004, shown in Fig. 20.

[0233] Likewise, the film roll 1204, shown in Fig. 12, changes to a landscape orientation 2008, shown in Fig. 20. As the film roll 1204, 2008 is navigable, the film roll 2008 may now move horizontally rather than vertically along the long axis of the screen 114, thus the film roll 2008 changes movement from a vertical orientation to a horizontal orientation. Further, the images within the film roll 2008 may change from a portrait orientation to a landscape orientation.

[0234] Unlike the preview 1200 or the film roll 1204, the camera controls shown in the control area 1112 may be in a fixed position, as shown in Fig. 20. The image preview 2004 may remain in the first screen 110 while changing the device's orientation during the rotation of the device 100. Thus, the device 100 can change the look and feel of the dual screen display when the device 100 is rotated from a portrait orientation shown in Fig. 12 to a landscape orientation of Fig. 20. It should be noted too that the device 100 may be rotated back to the portrait orientation in Fig. 12, where the changes are reversed and the display is as shown in Fig. 12.

[0235] Furthermore, while the exemplary aspects, embodiments, and/or configurations illustrated herein show the various components of the system collocated, certain components of the system can be located remotely, at distant portions of a distributed network, such as a LAN and/or the Internet, or within a dedicated system. Thus, it should be appreciated, that the components of the system can be combined in to one or more devices, such as a tablet-like device, or collocated on a particular node of a distributed network, such as an analog and/or digital telecommunications network, a packet-switch network, or a circuit-switched network. It will be appreciated from the preceding description, and for reasons of computational efficiency, that the components of the system can be arranged at any location within a distributed network of components without affecting the operation of the system. For example, the various components can be located in a switch such as a PBX and media server, gateway, in one or more

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communications devices, at one or more users' premises, or some combination thereof. Similarly, one or more functional portions of the system could be distributed between a telecommunications device(s) and an associated computing device.

[0236] Furthermore, it should be appreciated that the various links connecting the elements can be wired or wireless links, or any combination thereof, or any other known or later developed element(s) that is capable of supplying and/or communicating data to and from the connected elements. These wired or wireless links can also be secure links and may be capable of communicating encrypted information. Transmission media used as links, for example, can be any suitable carrier for electrical signals, including coaxial cables, copper wire and fiber optics, and may take the form of acoustic or light waves, such as those generated during radio-wave and infra-red data communications.

[0237] Also, while the flowcharts have been discussed and illustrated in relation to a particular sequence of events, it should be appreciated that changes, additions, and omissions to this sequence can occur without materially affecting the operation of the disclosed embodiments, configuration, and aspects.

[0238] In yet another embodiment, the systems and methods of this disclosure can be implemented in conjunction with a special purpose computer, a programmed microprocessor or microcontroller and peripheral integrated circuit element(s), an ASIC or other integrated circuit, a digital signal processor, a hard-wired electronic or logic circuit such as discrete element circuit, a programmable logic device or gate array such as PLD, PLA, FPGA, PAL, special purpose computer, any comparable means, or the like. In general, any device(s) or means capable of implementing the methodology illustrated herein can be used to implement the various aspects of this disclosure. Exemplary hardware that can be used for the disclosed embodiments, configurations and aspects includes computers, handheld devices, telephones (e.g., cellular, Internet enabled, digital, analog, hybrids, and others), and other hardware known in the art. Some of these devices include processors (e.g., a single or multiple microprocessors), memory, nonvolatile storage, input devices, and output devices. Furthermore, alternative software implementations including, but not limited to, distributed processing or component/object distributed processing, parallel processing, or virtual machine processing can also be constructed to implement the methods described herein.

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[0239] In yet another embodiment, the disclosed methods may be readily implemented in conjunction with software using object or object-oriented software development environments that provide portable source code that can be used on a variety of computer or workstation platforms. Alternatively, the disclosed system may be implemented partially or fully in hardware using standard logic circuits or VLSI design. Whether software or hardware is used to implement the systems in accordance with this disclosure is dependent on the speed and/or efficiency requirements of the system, the particular function, and the particular software or hardware systems or microprocessor or microcomputer systems being utilized.

[0240] In yet another embodiment, the disclosed methods may be partially implemented in software that can be stored on a storage medium, executed on programmed general-purpose computer with the cooperation of a controller and memory, a special purpose computer, a microprocessor, or the like. In these instances, the systems and methods of this disclosure can be implemented as program embedded on personal computer such as an applet, JAVA® or CGI script, as a resource residing on a server or computer workstation, as a routine embedded in a dedicated measurement system, system component, or the like. The system can also be implemented by physically incorporating the system and/or method into a software and/or hardware system.

[0241] Although the present disclosure describes components and functions implemented in the aspects, embodiments, and/or configurations with reference to particular standards and protocols, the aspects, embodiments, and/or configurations are not limited to such standards and protocols. Other similar standards and protocols not mentioned herein are in existence and are considered to be included in the present disclosure. Moreover, the standards and protocols mentioned herein and other similar standards and protocols not mentioned herein are periodically superseded by faster or more effective equivalents having essentially the same functions. Such replacement standards and protocols having the same functions are considered equivalents included in the present disclosure.

[0242] The present disclosure, in various aspects, embodiments, and/or configurations, includes components, methods, processes, systems and/or apparatus substantially as depicted and described herein, including various aspects, embodiments, configurations embodiments, subcombinations, and/or subsets thereof. Those of skill in the art will understand how to make and use the disclosed aspects, embodiments, and/or configurations after understanding the

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present disclosure. The present disclosure, in various aspects, embodiments, and/or configurations, includes providing devices and processes in the absence of items not depicted and/or described herein or in various aspects, embodiments, and/or configurations hereof, including in the absence of such items as may have been used in previous devices or processes, e.g., for improving performance, achieving ease and\or reducing cost of implementation.

[0243] The foregoing discussion has been presented for purposes of illustration and description. The foregoing is not intended to limit the disclosure to the form or forms disclosed herein. In the foregoing Detailed Description for example, various features of the disclosure are grouped together in one or more aspects, embodiments, and/or configurations for the purpose of streamlining the disclosure. The features of the aspects, embodiments, and/or configurations of the disclosure may be combined in alternate aspects, embodiments, and/or configurations other than those discussed above. This method of disclosure is not to be interpreted as reflecting an intention that the claims require more features than are expressly recited in each claim. Rather, as the following claims reflect, inventive aspects lie in less than all features of a single foregoing disclosed aspect, embodiment, and/or configuration. Thus, the following claims are hereby incorporated into this Detailed Description, with each claim standing on its own as a separate preferred embodiment of the disclosure.

[0244] Moreover, though the description has included description of one or more aspects, embodiments, and/or configurations and certain variations and modifications, other variations, combinations, and modifications are within the scope of the disclosure, e.g., as may be within the skill and knowledge of those in the art, after understanding the present disclosure. It is intended to obtain rights which include alternative aspects, embodiments, and/or configurations to the extent permitted, including alternate, interchangeable and/or equivalent structures, functions, ranges or steps to those claimed, whether or not such alternate, interchangeable and/or equivalent structures, functions, ranges or steps are disclosed herein, and without intending to publicly dedicate any patentable subject matter.

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What is claimed is:

1. A method, comprising:

providing a device having at least first and second screens;

receiving user interface input to execute an image capture function;

determining one or more of a image capture function configuration, a device orientation, and a device state; and

based on one or more of the image capture function configuration, the device orientation, and the device state, entering one of one or more image capture modes.

2. The method of claim 1, wherein the image capture function is configured to capture an outward-facing image.

3. The method of claim 2, wherein the device is in a closed state.

4. The method of claim 3, wherein the device is in a landscape or portrait orientation.

5. The method of claim 4, wherein a lens is associated with either the first or second screen.

6. The method of claim 5, wherein, in the image capture mode, the device does not display an image on a first screen and displays a preview on a second screen.

7. The method of claim 5, wherein the first screen is disabled and does not receive user interface input while in the image capture mode.

8. The method of claim 5, wherein, in the image capture mode, the device displays a visual indicia on a first screen and displays a preview on a second screen.

9. The method of claim 5, wherein, in the image capture mode, the device displays a preview on a first screen and a second screen.

10. The method of claim 5, wherein in one or more controls are presented on a second screen.

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11. A device, comprising:

a first screen, the first screen including a first gesture capture region;

a second screen, wherein the second screen faces an opposite direction from the first screen when the device is closed, and wherein an image capture lens is associated with the second screen;

a memory;

a processor in communication with the memory, the first screen, and the second screen, the processor operable to:

receive user interface input to execute an image capture function;

determine one or more of an image capture function configuration, a device orientation, and a device state;

based on one or more of the image capture function configuration, the device orientation, and the device state, enter one of one or more image capture modes, wherein in each image capture mode a display on the first or second screen is different.

12. The device of claim 11, wherein the image capture function is configured to capture an outward-facing image, wherein the device is in a closed state, and wherein the device is in a landscape orientation.

13. The device of claim 11, wherein the image capture mode is one of a full and disabled mode, a full and static mode, or a full and live mode, wherein in the full and disabled mode, the first screen displays a preview of an image to be captured and the second screen is disabled, wherein in the full and static mode, the first screen displays a preview of an image to be captured and the second screen is displays a static image, and wherein in the full and live mode, the first screen displays a first preview of an image to be captured and the second screen displays a second preview of the image to be captured.

14. The device of claim 13, wherein the first preview and the second preview have different display orientations.

15. The device of claim 14, wherein user interface input for the second screen is disabled.

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16. A computer readable medium having stored thereon computer-executable instructions, the computer executable instructions causing a processor of a device to execute a method for providing a user interface, the computer-executable instructions comprising:

instructions to receive user interface input to execute an image capture function;

instructions to determine one or more of an image capture function configuration, a device orientation, and a device state, , wherein the device has at least first and second screens, wherein the device is in a closed state, wherein, in the closed state, the first and second screens face opposite directions, wherein the image capture function is configured to capture an outward-facing image, wherein the device is in a landscape orientation, and wherein an image capture lens is associated with the second screen;

based on one or more of the image capture function configuration, the device orientation, and the device state, instructions to enter one of one or more image capture modes, wherein in each image capture mode a display on the first or second screen is different, wherein the image capture mode is one of a full and disabled mode, a full and static mode, or a full and live mode.

17. The computer readable medium of claim 16,wherein in the full and disabled mode, the first screen displays a first preview of an image to be captured and the second screen is disabled, wherein in the full and static mode, the first screen displays a first preview of an image to be captured and the second screen is displays a static image, and wherein in the full and live mode, the first screen displays a first preview of an image to be captured and the second screen displays a second preview of the image to be captured.

18. The computer readable medium of claim 17, wherein the first preview and the second preview have different display orientations.

19. The computer readable medium of claim 17, wherein user interface input for the second screen is disabled.

20. The computer readable medium of claim 16, wherein the image is one of a picture and a video.

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ABSTRACT

Methods and devices for selectively presenting a user interface in a dual screen device. More particularly, the method includes a change in the display mode of a multiple screen device while the device is in an image capture mode. The device may present different information on the two screens based on several factors including the mode of the image capture feature, the orientation of the device, and/or the state of the device.

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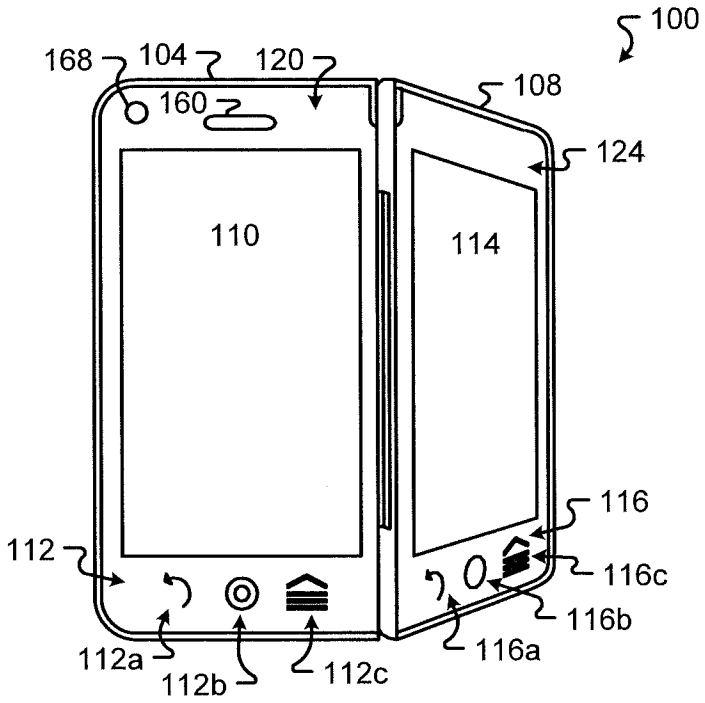

100
168
104
120
160
108
124
110
114
116
112
116c
116b
116a
112a
112b
112c

FIG. 1A

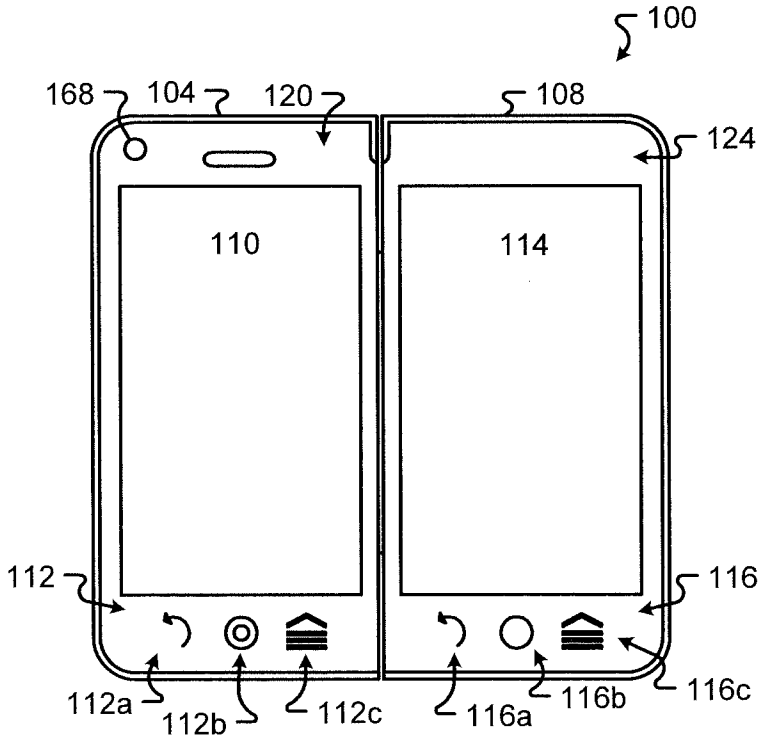

100
168
104
120
108
124
110
114
112
116
112a
112b
112c
116a
116b
116c

FIG. 1B

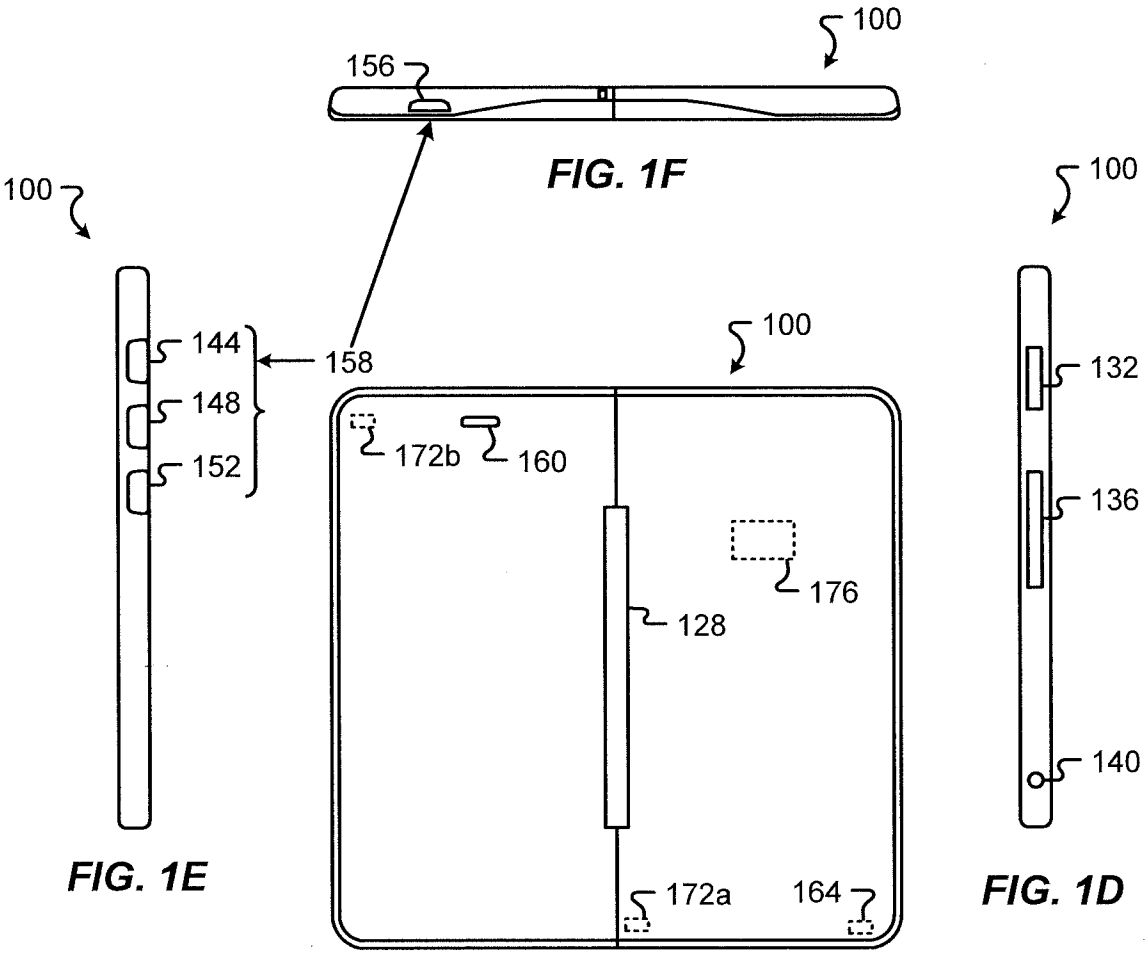


FIG. 1F

FIG. 1E

FIG. 1D

FIG. 1C

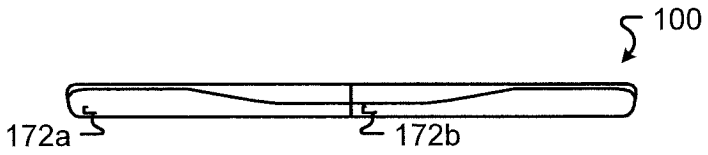


FIG. 1G

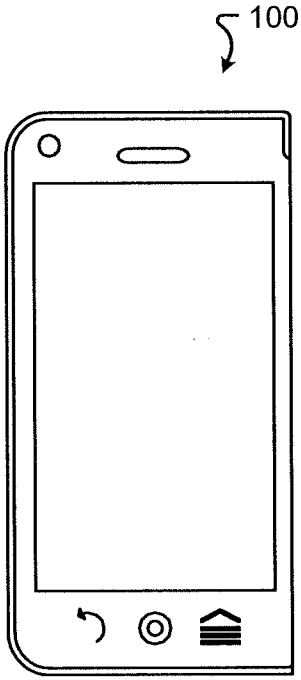


FIG. 1H

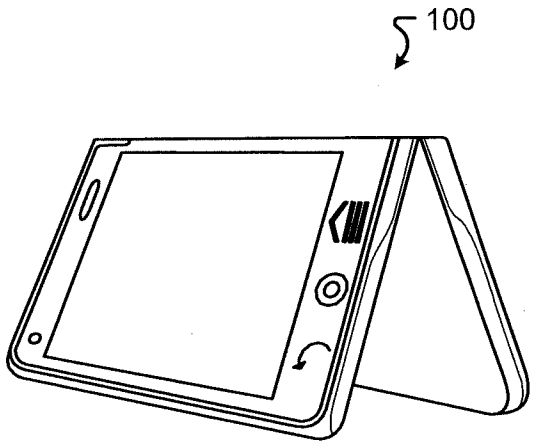


FIG. 1I

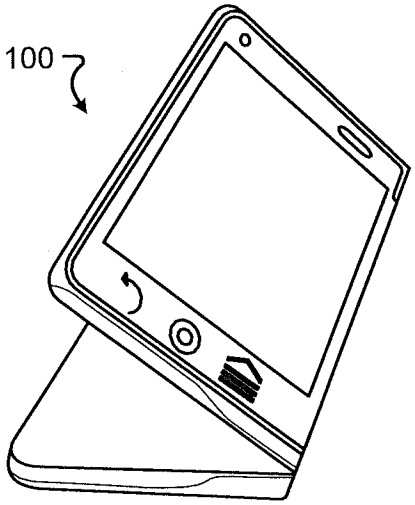


FIG. 1J

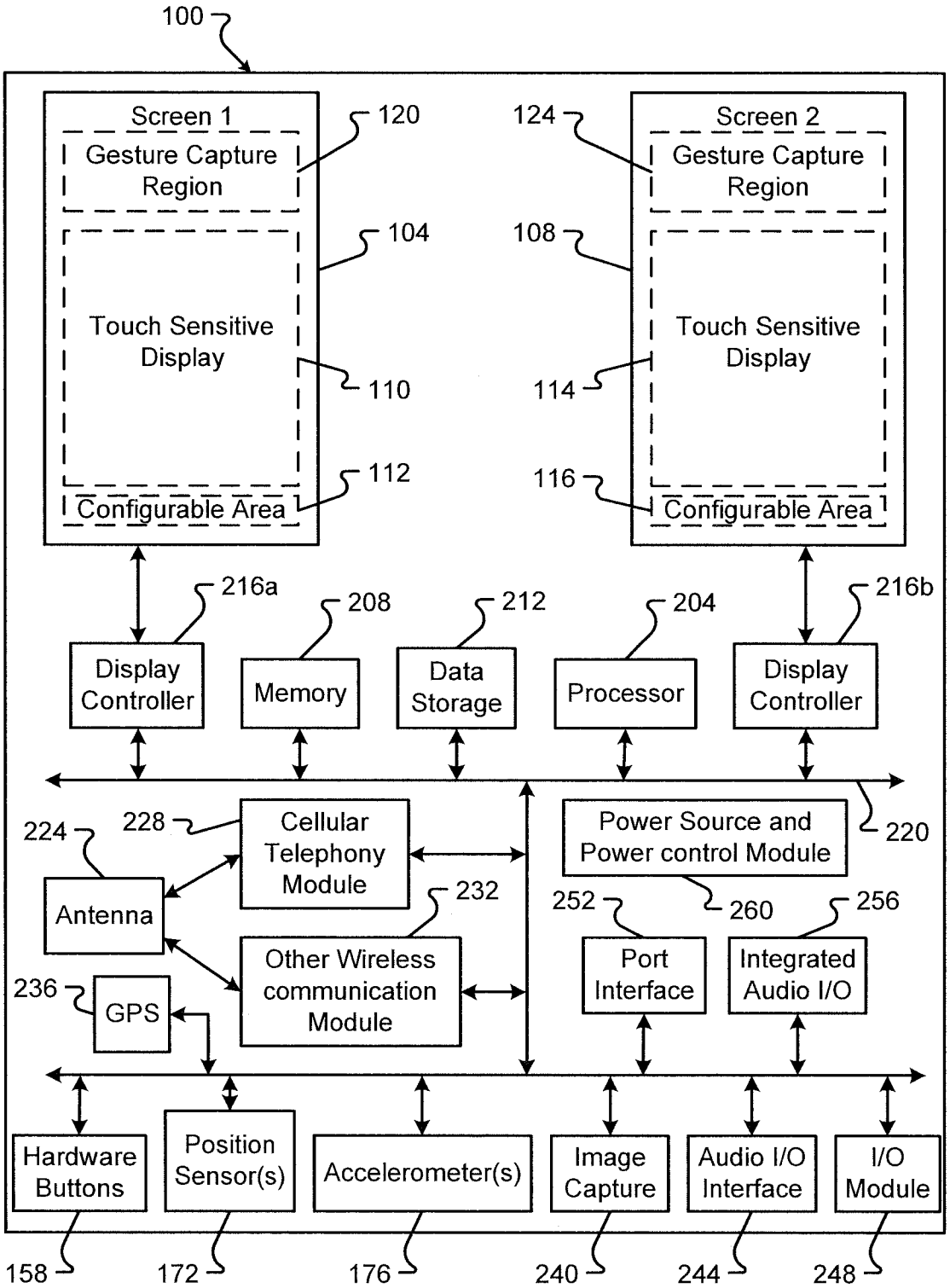

100
Screen 1
Gesture Capture Region
120
104
Touch Sensitive Display
110
112
Configurable Area
124
Screen 2
Gesture Capture Region
108
Touch Sensitive Display
114
116
Configurable Area
216a
208
212
204
216b
Display Controller
Memory
Data Storage
Processor
Display Controller
220
224
228
Cellular Telephony Module
Power Source and Power control Module
Antenna
232
252
260
256
Other Wireless communication Module
Port Interface
Integrated Audio I/O
236
GPS
Hardware Buttons
Position Sensor(s)
Accelerometer(s)
Image Capture
Audio I/O Interface
I/O Module
158
172
176
240
244
248

FIG. 2

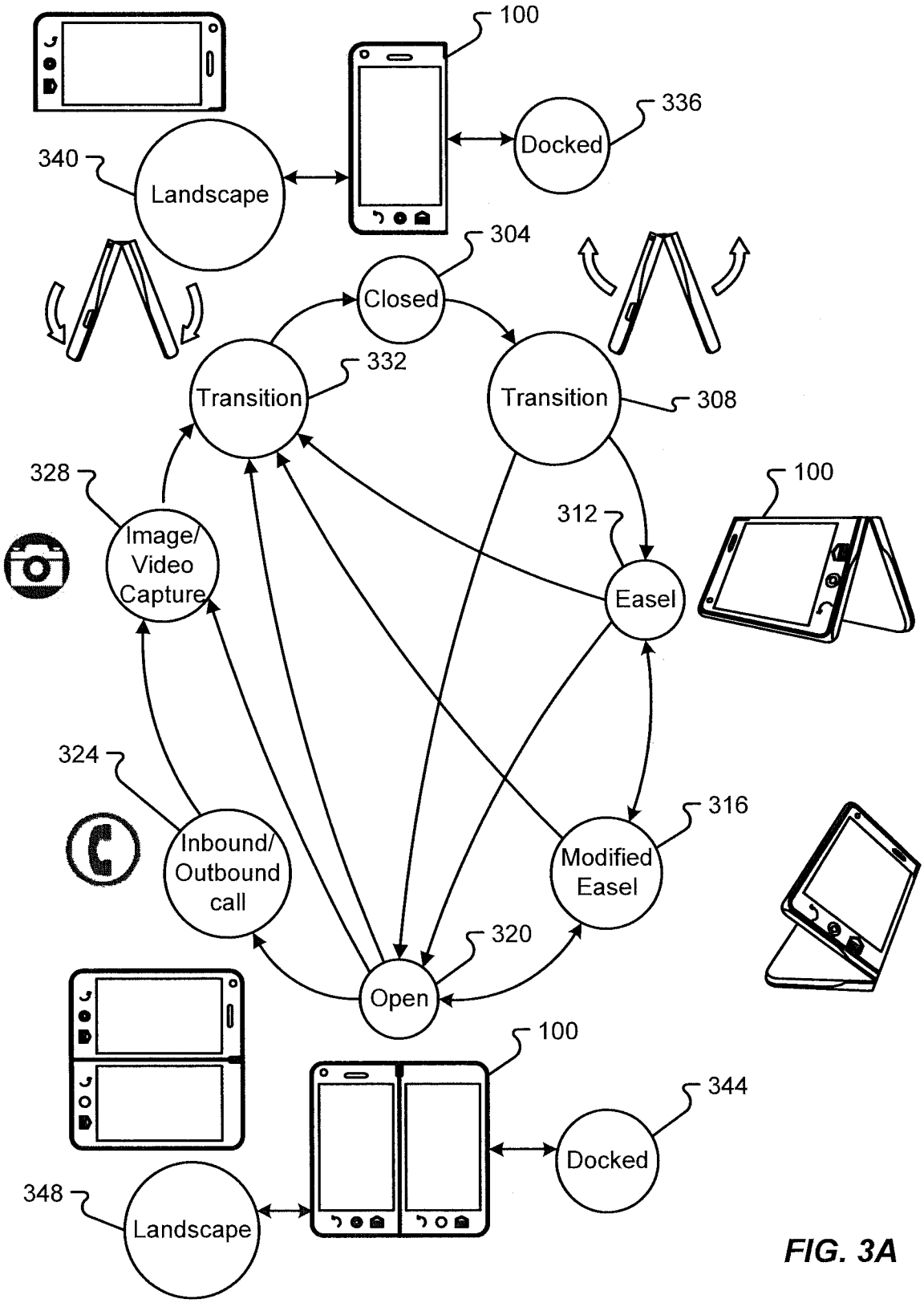
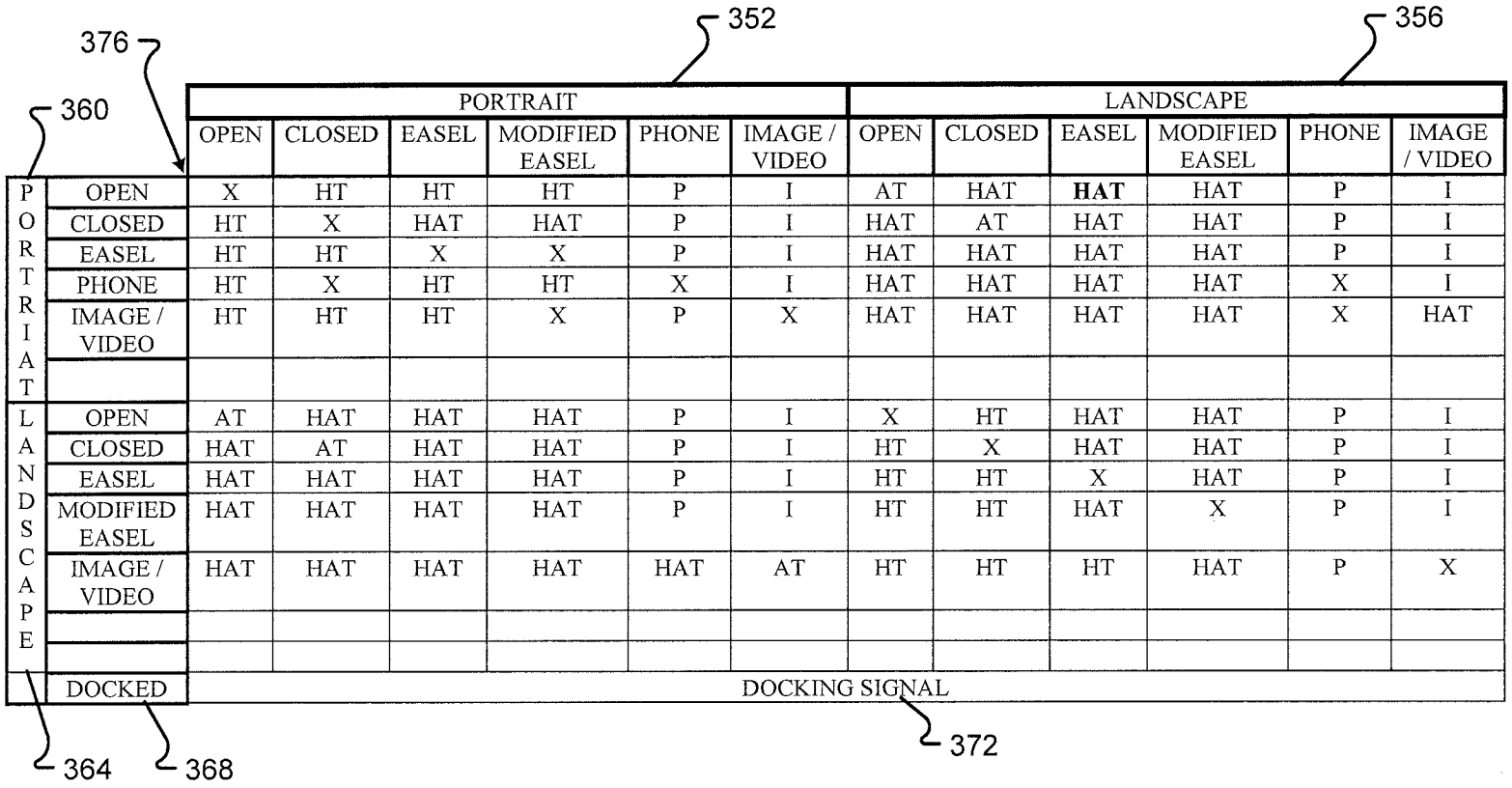

100
336
Docked
340
Landscape
304
Closed
332
Transition
Transition
308
328
Image/
Video
Capture
312
100
Easel
324
Inbound/
Outbound
call
316
Modified
Easel
320
Open
100
344
Docked
348
Landscape

FIG. 3A



		PORTRAIT						LANDSCAPE					
		OPEN	CLOSED	EASEL	MODIFIED EASEL	PHONE	IMAGE / VIDEO	OPEN	CLOSED	EASEL	MODIFIED EASEL	PHONE	IMAGE / VIDEO
PORTRAIT	OPEN	X	HT	HT	HT	P	I	AT	HAT	**HAT**	HAT	P	I
	CLOSED	HT	X	HAT	HAT	P	I	HAT	AT	HAT	HAT	P	I
	EASEL	HT	HT	X	X	P	I	HAT	HAT	HAT	HAT	P	I
	PHONE	HT	X	HT	HT	X	I	HAT	HAT	HAT	HAT	X	I
	IMAGE / VIDEO	HT	HT	HT	X	P	X	HAT	HAT	HAT	HAT	X	HAT
LANDSCAPE	OPEN	AT	HAT	HAT	HAT	P	I	X	HT	HAT	HAT	P	I
	CLOSED	HAT	AT	HAT	HAT	P	I	HT	X	HAT	HAT	P	I
	EASEL	HAT	HAT	HAT	HAT	P	I	HT	HT	X	HAT	P	I
	MODIFIED EASEL	HAT	HAT	HAT	HAT	P	I	HT	HT	HAT	X	P	I
	IMAGE / VIDEO	HAT	HAT	HAT	HAT	HAT	AT	HT	HT	HT	HAT	P	X
	DOCKED	DOCKING SIGNAL											

Key:
H - Hall Effect Sensor(s)
a - accelerometer(s)
T- Timer
P – communications Trigger
I – Image / Video capture Request

FIG. 3B

Tap

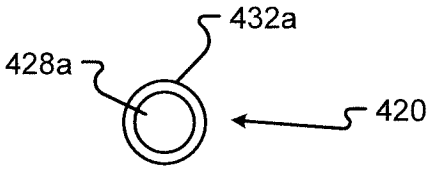


FIG. 4A

Long Press

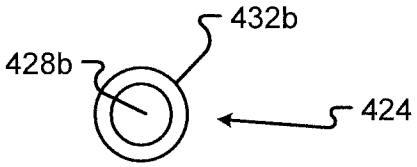


FIG. 4B

Drag

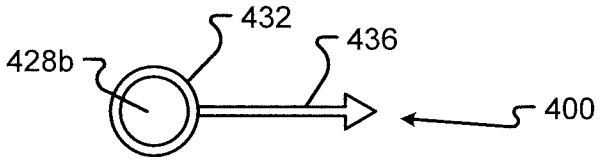


FIG. 4C

Flick

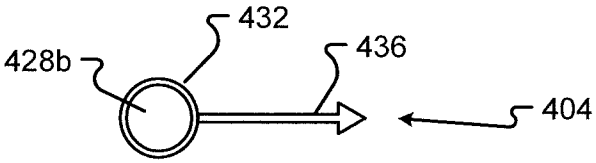


FIG. 4D

Pinch

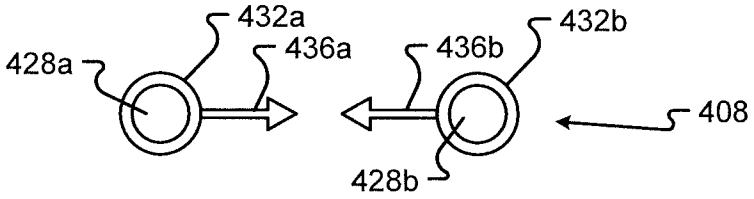


FIG. 4E

Spread

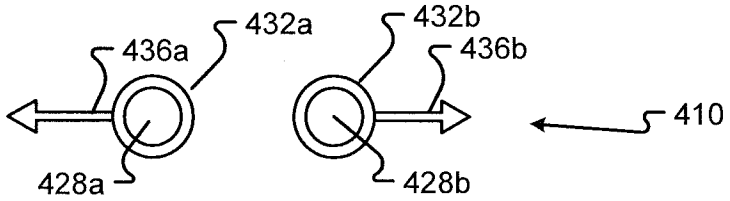


FIG. 4F

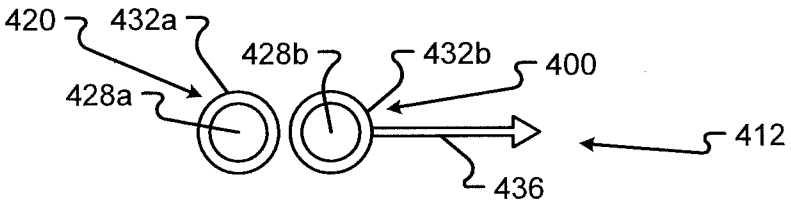

420
432a
428b
432b
400
428a
412
436

FIG. 4G

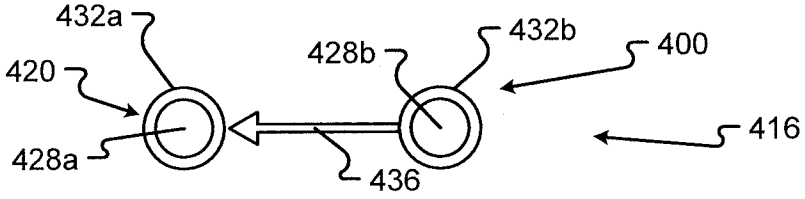

432a
420
428b
432b
400
428a
416
436

FIG. 4H

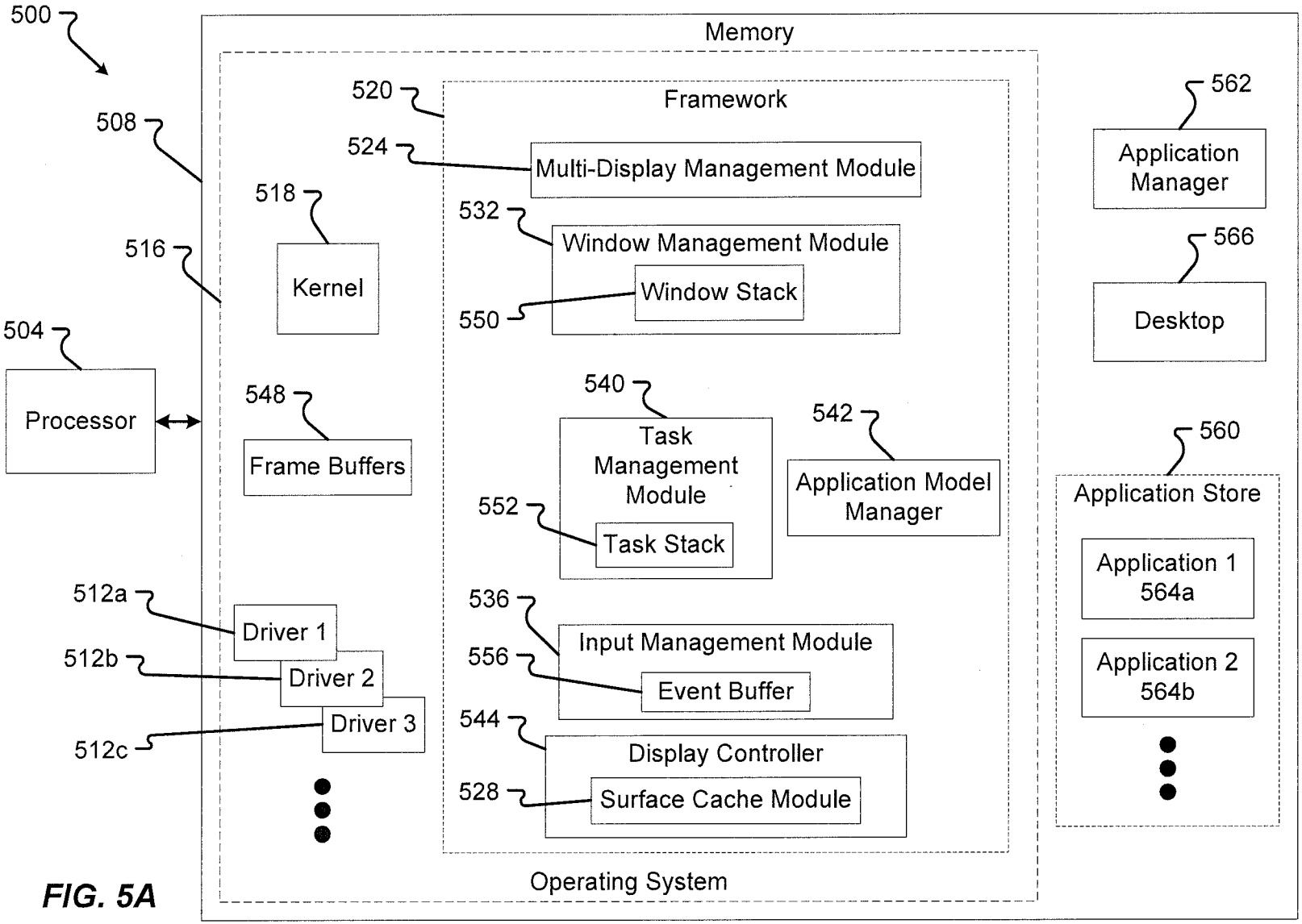

500
Memory
508
520
Framework
524
Multi-Display Management Module
562
Application Manager
518
Kernel
532
Window Management Module
516
Window Stack
550
566
Desktop
504
Processor
548
Frame Buffers
540
Task Management Module
542
Application Model Manager
560
552
Task Stack
Application Store
512a
Driver 1
536
Input Management Module
Application 1 564a
512b
Driver 2
556
Event Buffer
Application 2 564b
512c
Driver 3
544
Display Controller
528
Surface Cache Module
Operating System

FIG. 5A

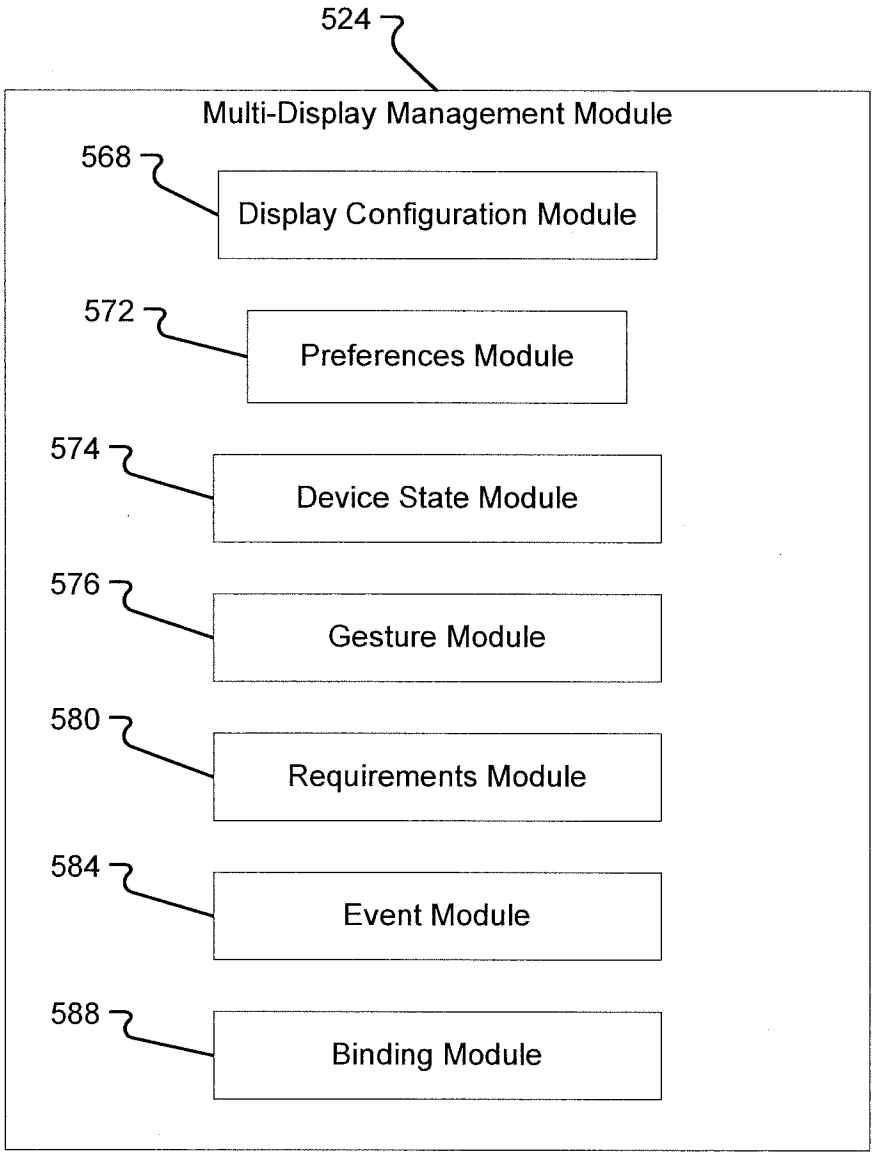

524
Multi-Display Management Module
568
Display Configuration Module
572
Preferences Module
574
Device State Module
576
Gesture Module
580
Requirements Module
584
Event Module
588
Binding Module

FIG. 5B

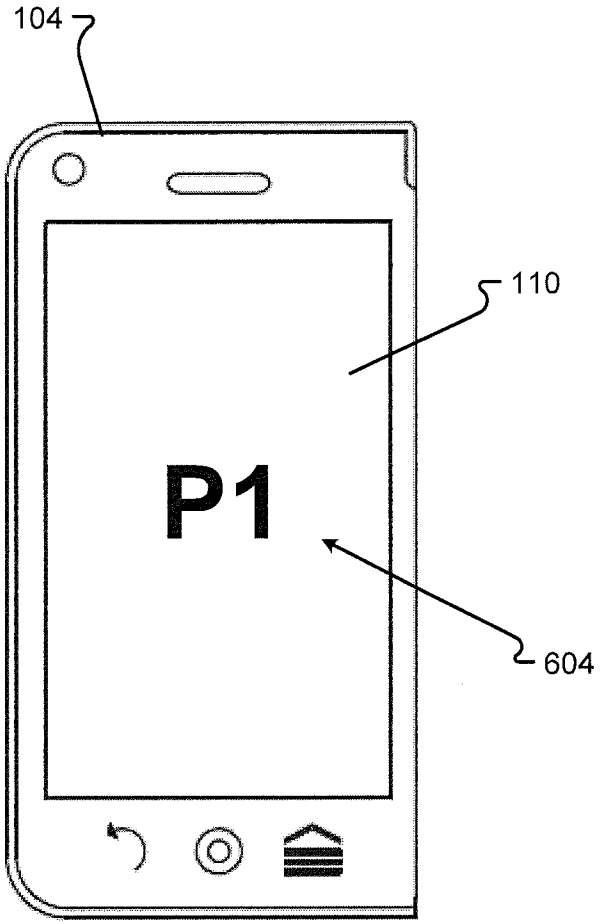


FIG. 6A

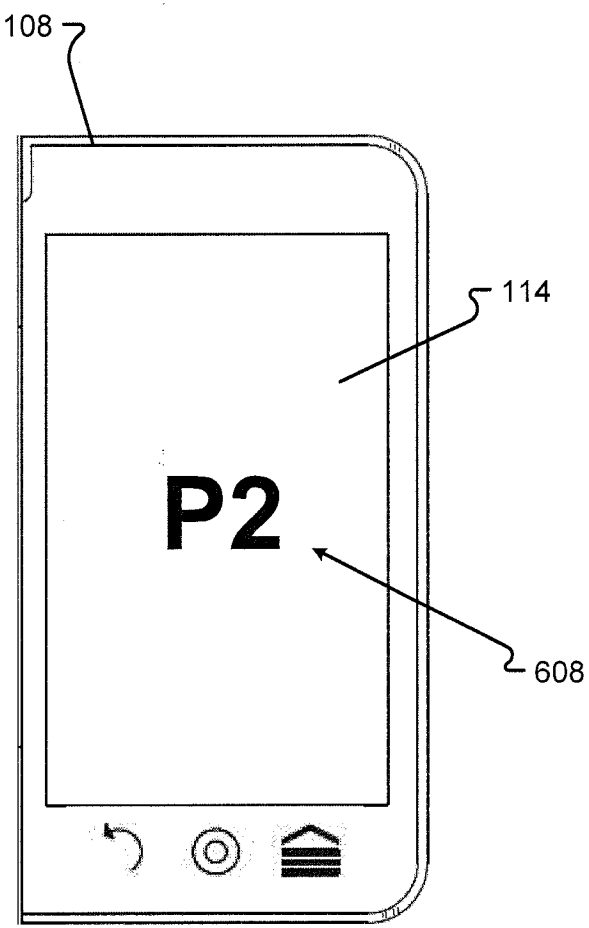


FIG. 6B

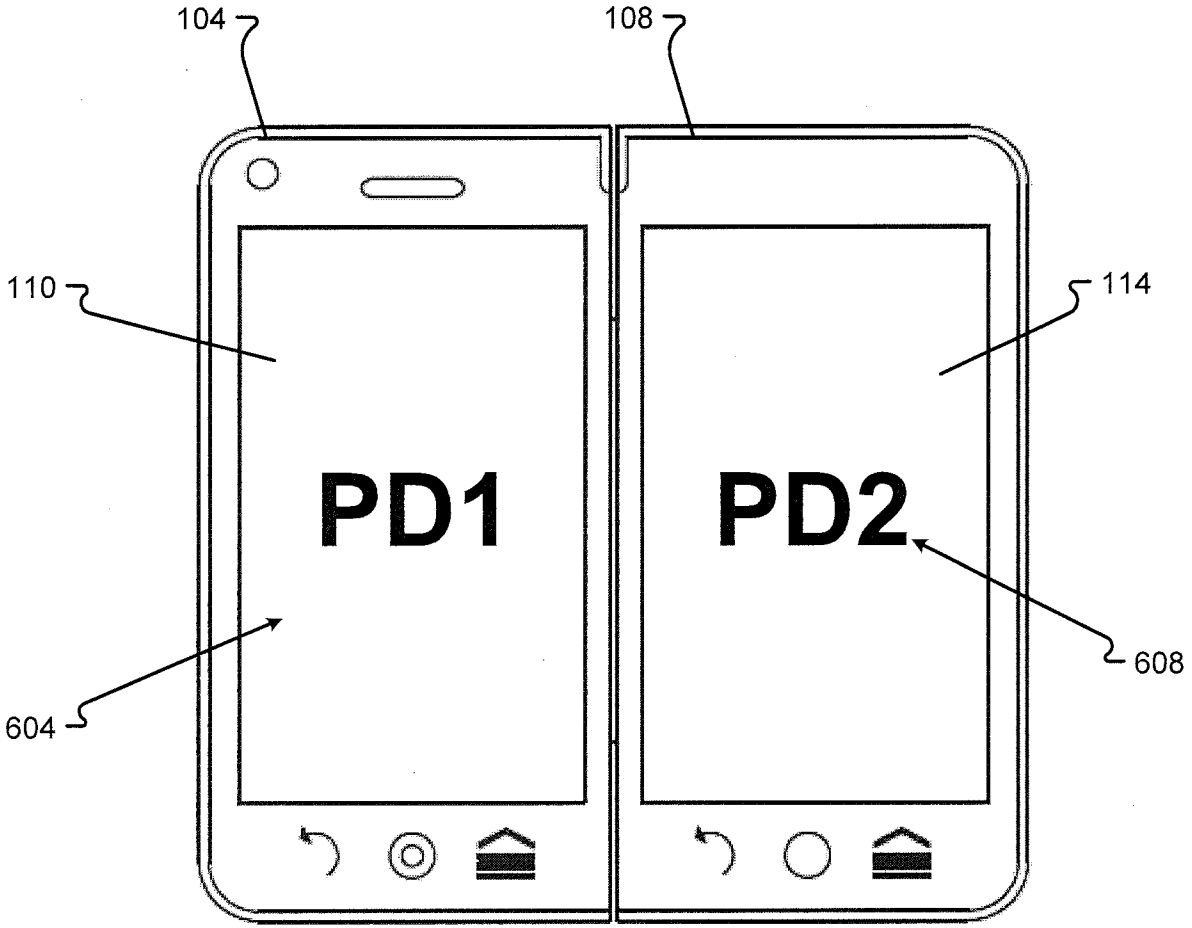


FIG. 6C

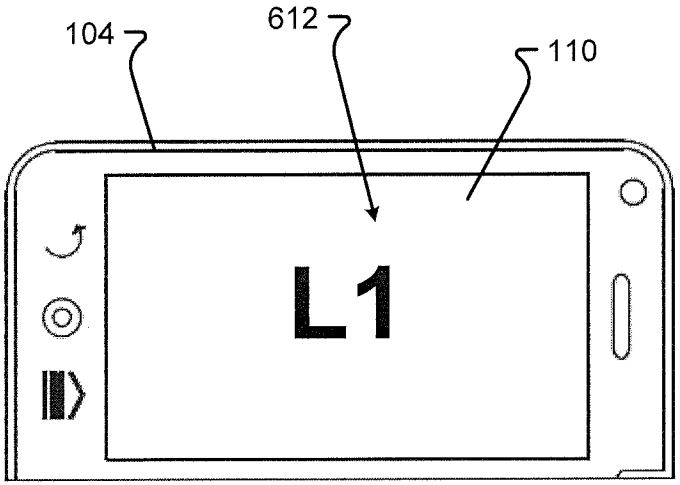


FIG. 6D

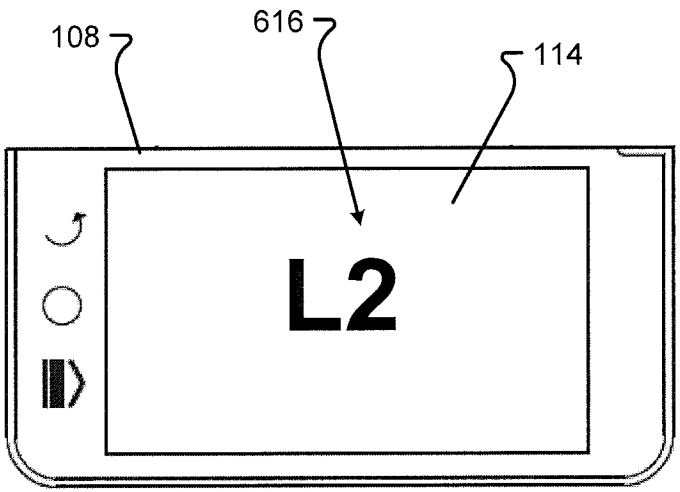


FIG. 6E

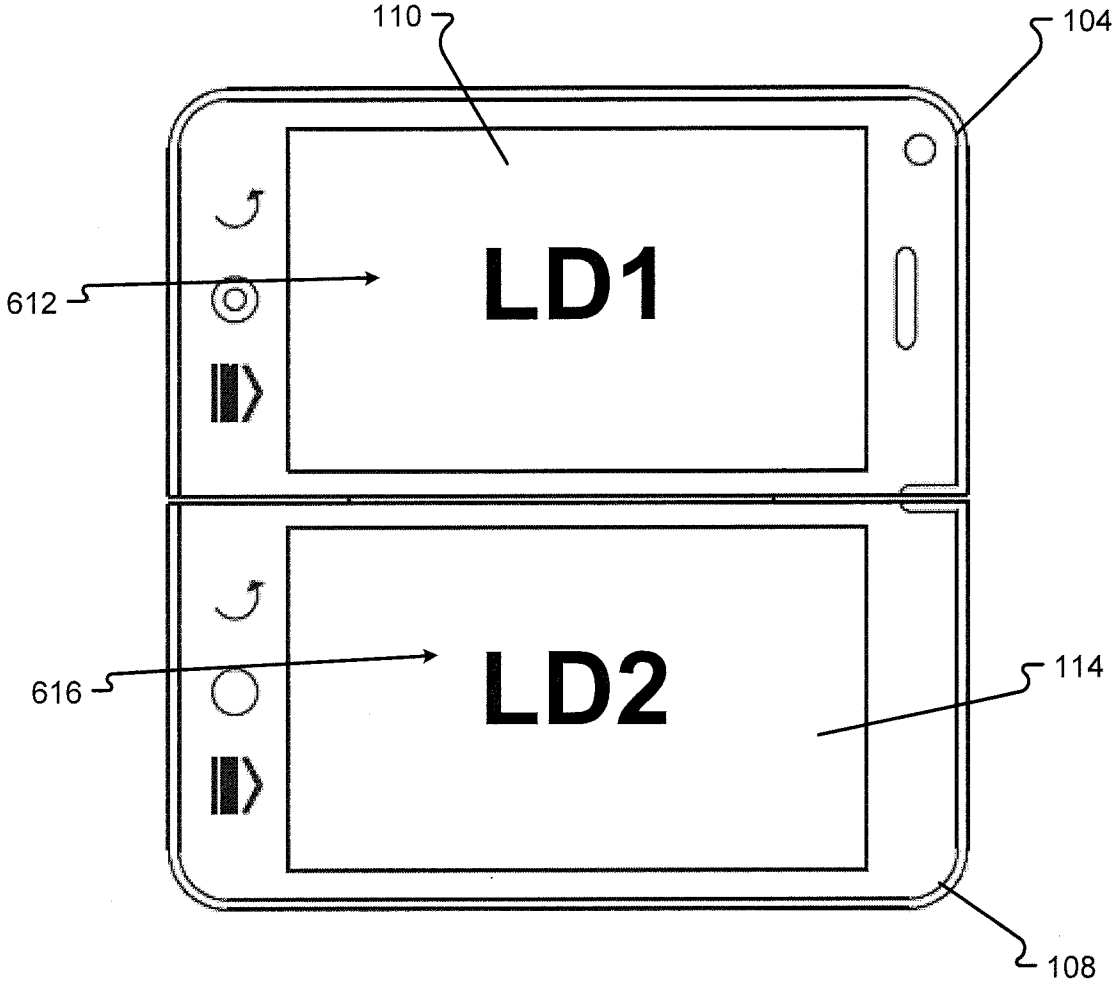


FIG. 6F

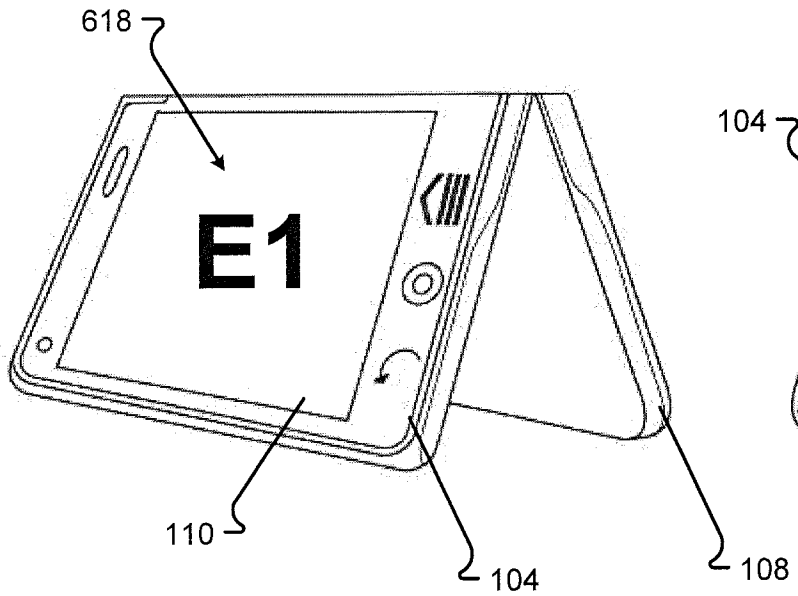


FIG. 6G

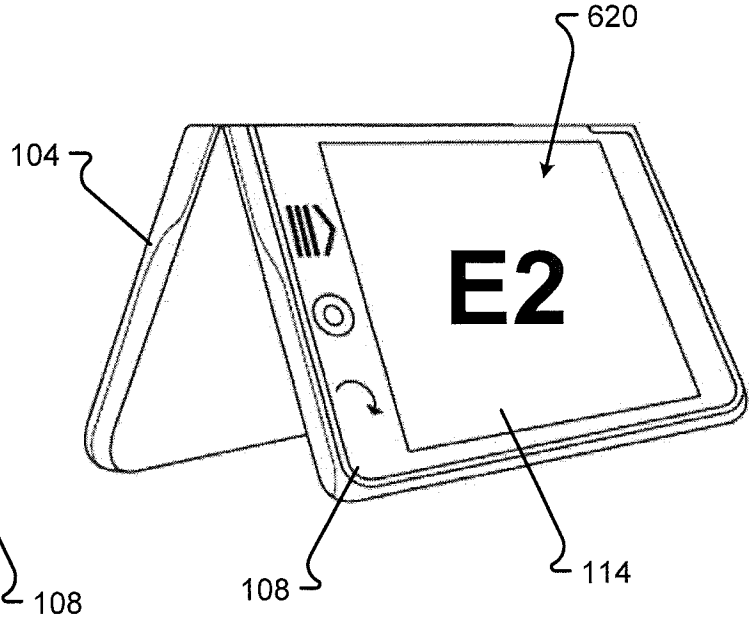


FIG. 6H

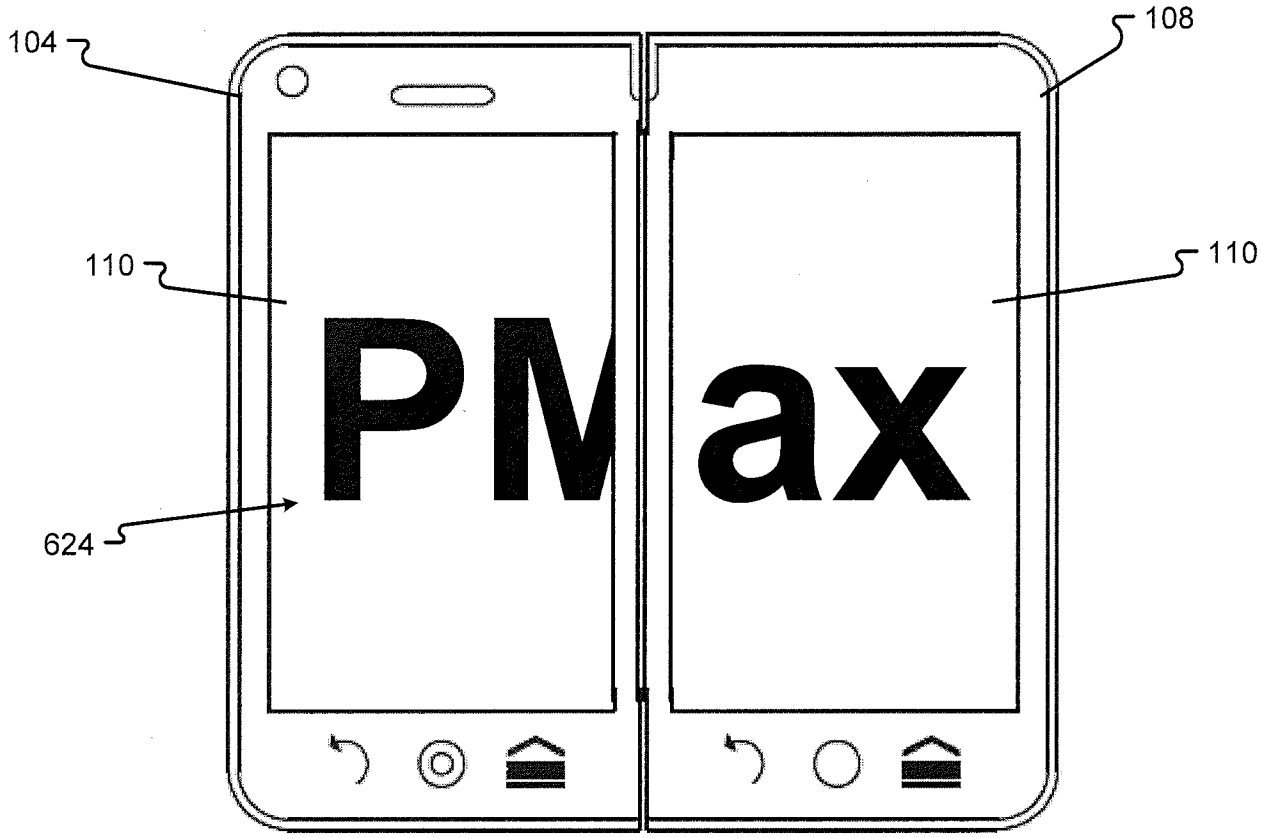


FIG. 6I

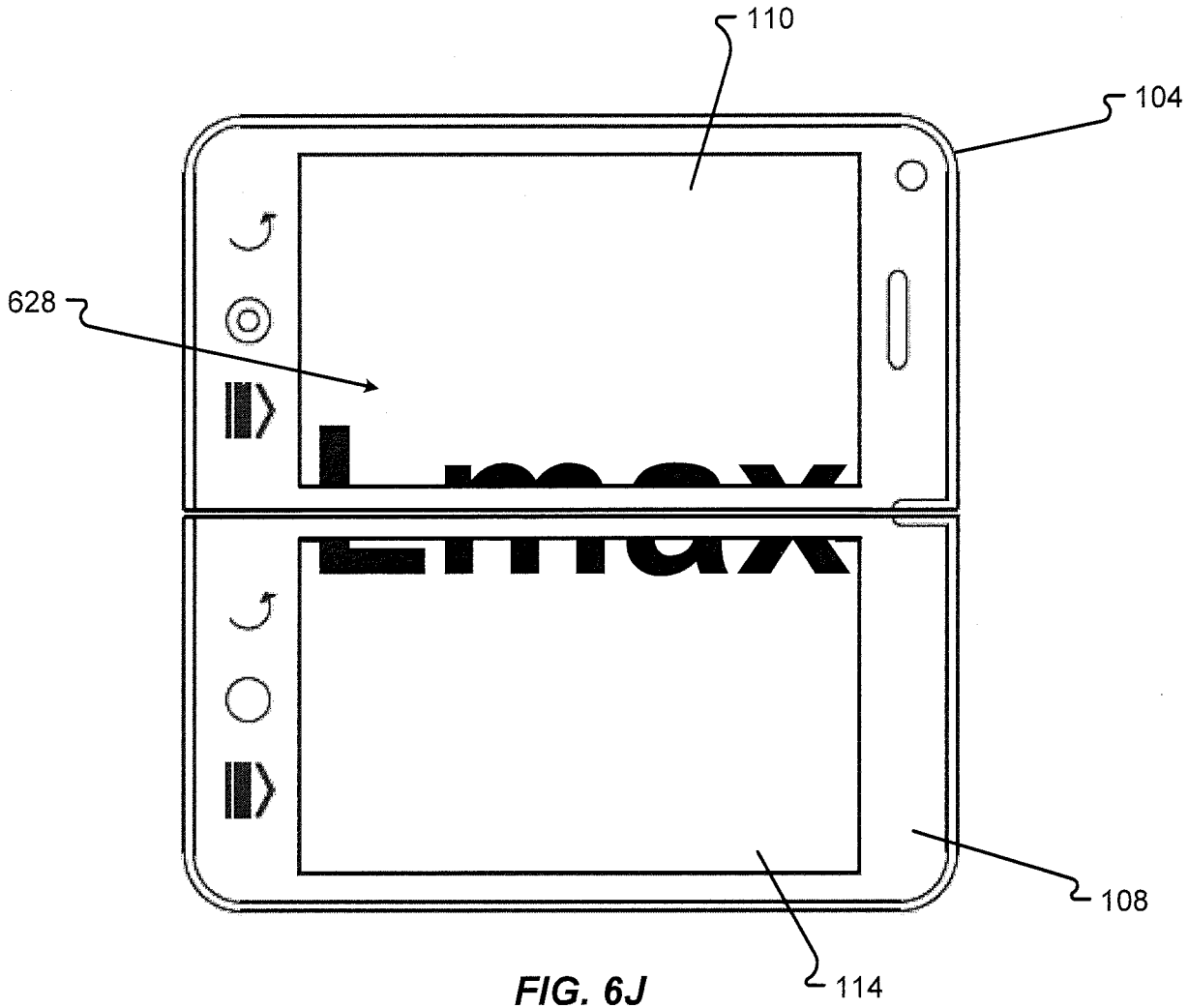


FIG. 6J

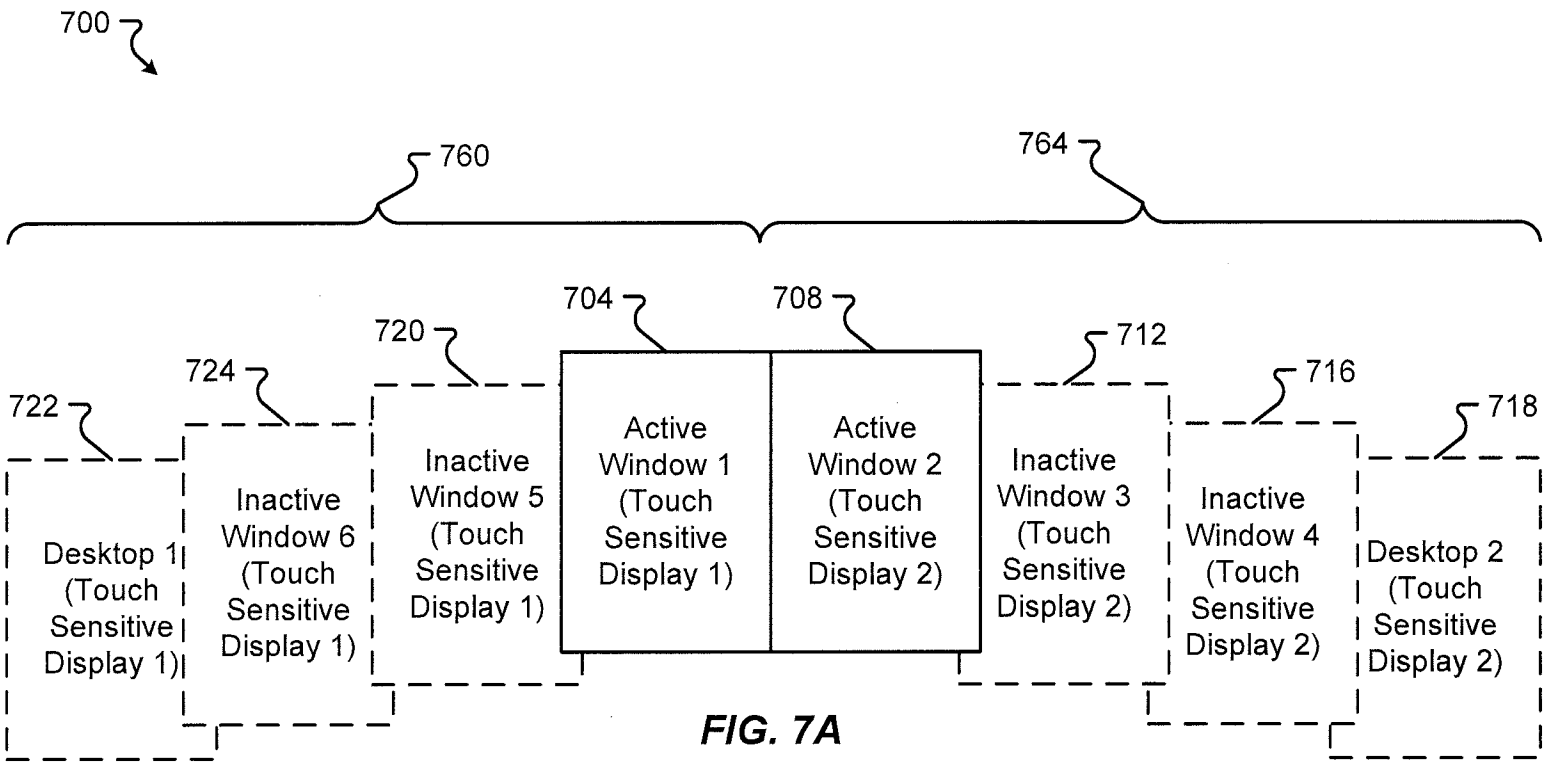

700
760
764
704
708
720
712
724
716
722
718
Desktop 1 (Touch Sensitive Display 1)
Inactive Window 6 (Touch Sensitive Display 1)
Inactive Window 5 (Touch Sensitive Display 1)
Active Window 1 (Touch Sensitive Display 1)
Active Window 2 (Touch Sensitive Display 2)
Inactive Window 3 (Touch Sensitive Display 2)
Inactive Window 4 (Touch Sensitive Display 2)
Desktop 2 (Touch Sensitive Display 2)

FIG. 7A

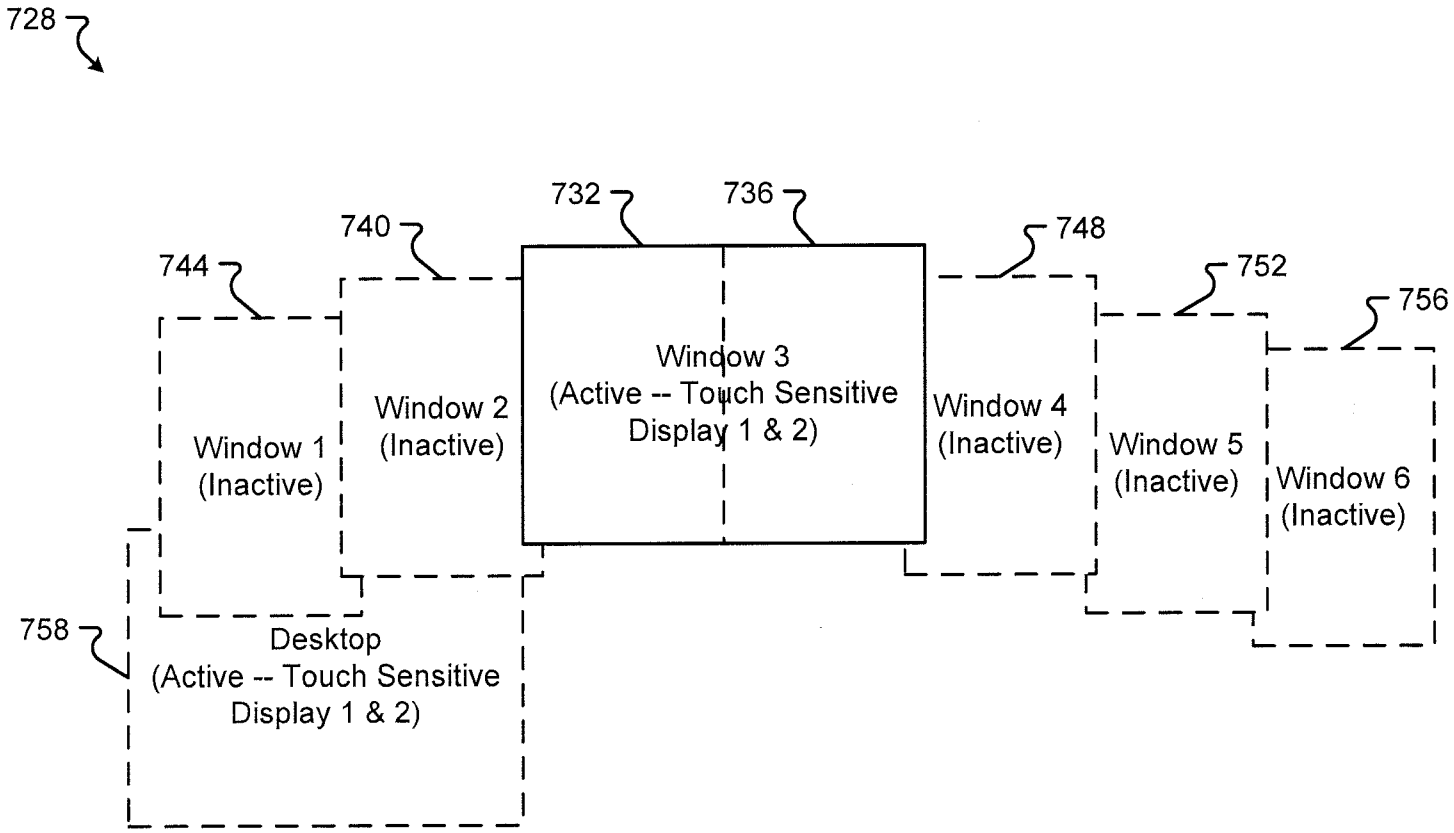

728
732
736
740
744
748
752
756
758
Window 1
(Inactive)
Window 2
(Inactive)
Window 3
(Active -- Touch Sensitive
Display 1 & 2)
Window 4
(Inactive)
Window 5
(Inactive)
Window 6
(Inactive)
Desktop
(Active -- Touch Sensitive
Display 1 & 2)

FIG. 7B

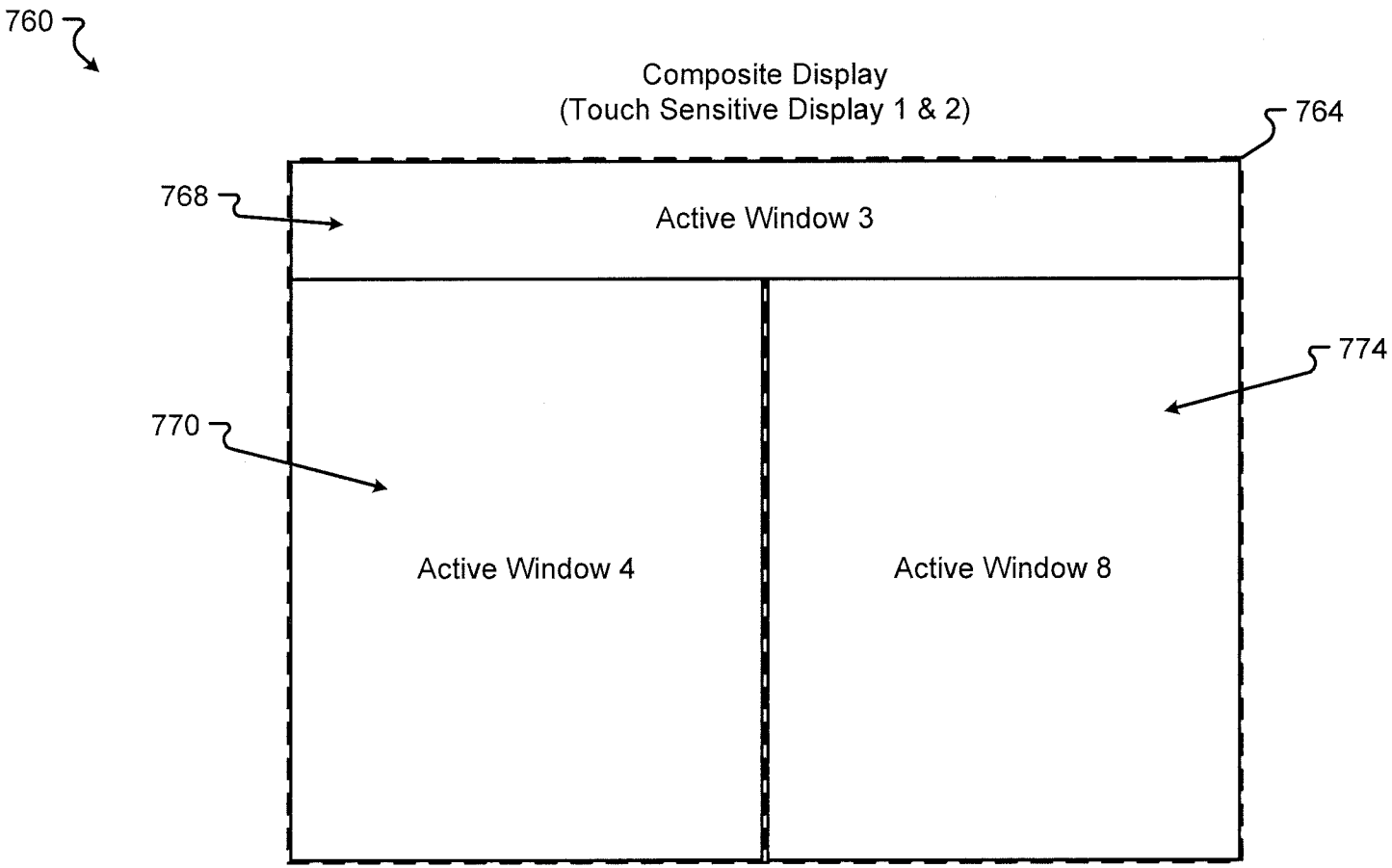

760
Composite Display
(Touch Sensitive Display 1 & 2)
764
768
Active Window 3
774
770
Active Window 4
Active Window 8

FIG. 7C

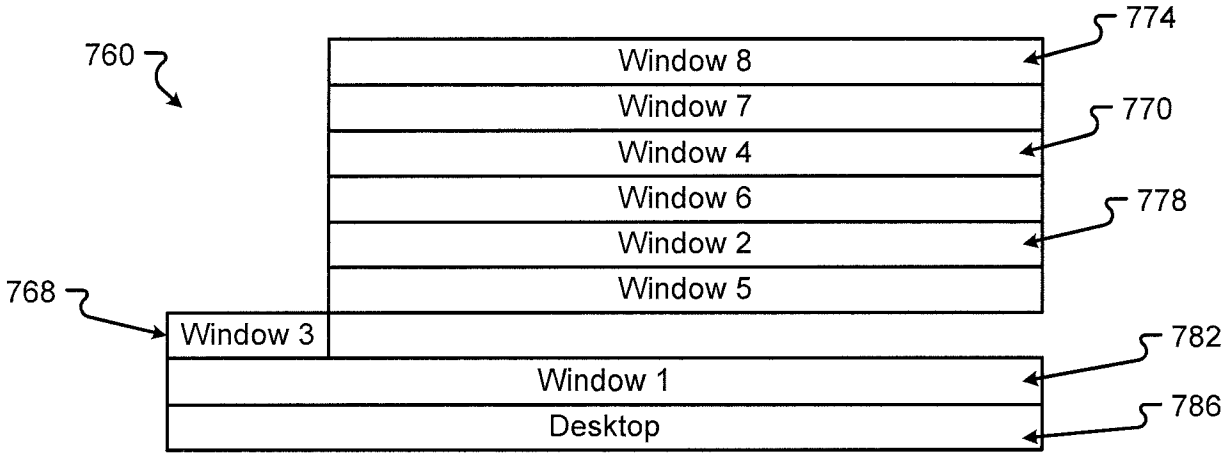

760
774
Window 8
Window 7
770
Window 4
Window 6
778
Window 2
Window 5
768
Window 3
782
Window 1
786
Desktop

FIG. 7D

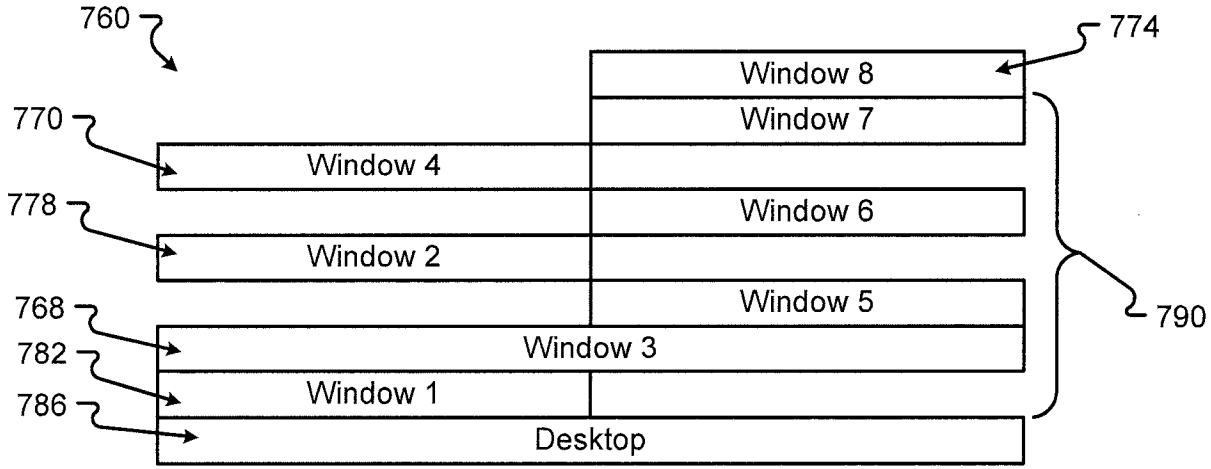

760
774
Window 8
Window 7
770
Window 4
Window 6
778
Window 2
Window 5
768
Window 3
782
Window 1
786
Desktop
790

FIG. 7E

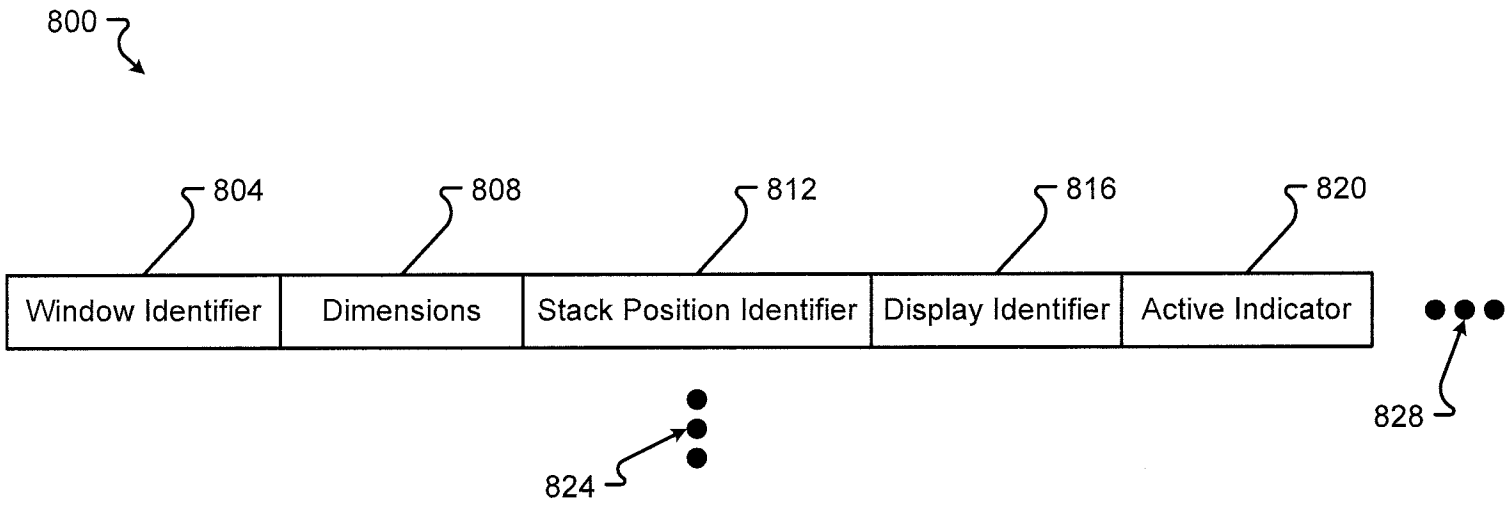

800
804
808
812
816
820
Window Identifier
Dimensions
Stack Position Identifier
Display Identifier
Active Indicator
824
828

FIG. 8

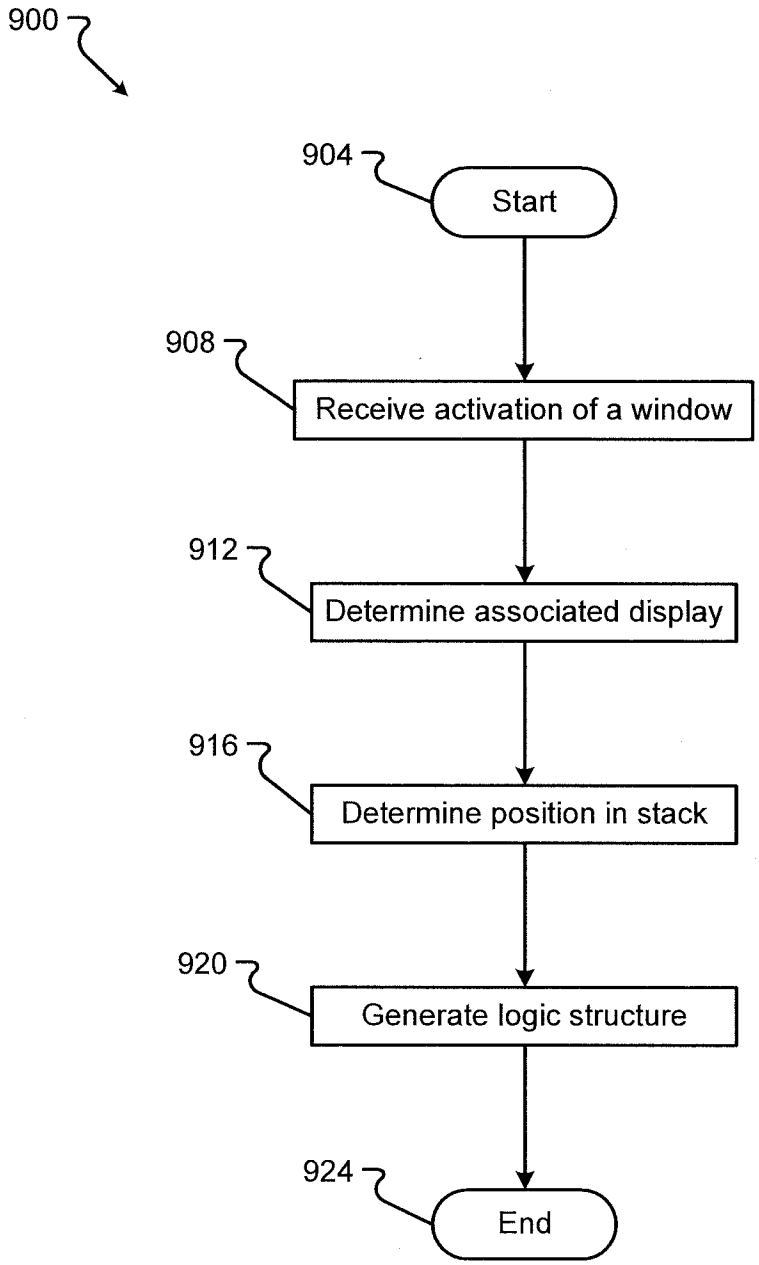

900
904
Start
908
Receive activation of a window
912
Determine associated display
916
Determine position in stack
920
Generate logic structure
924
End

FIG. 9

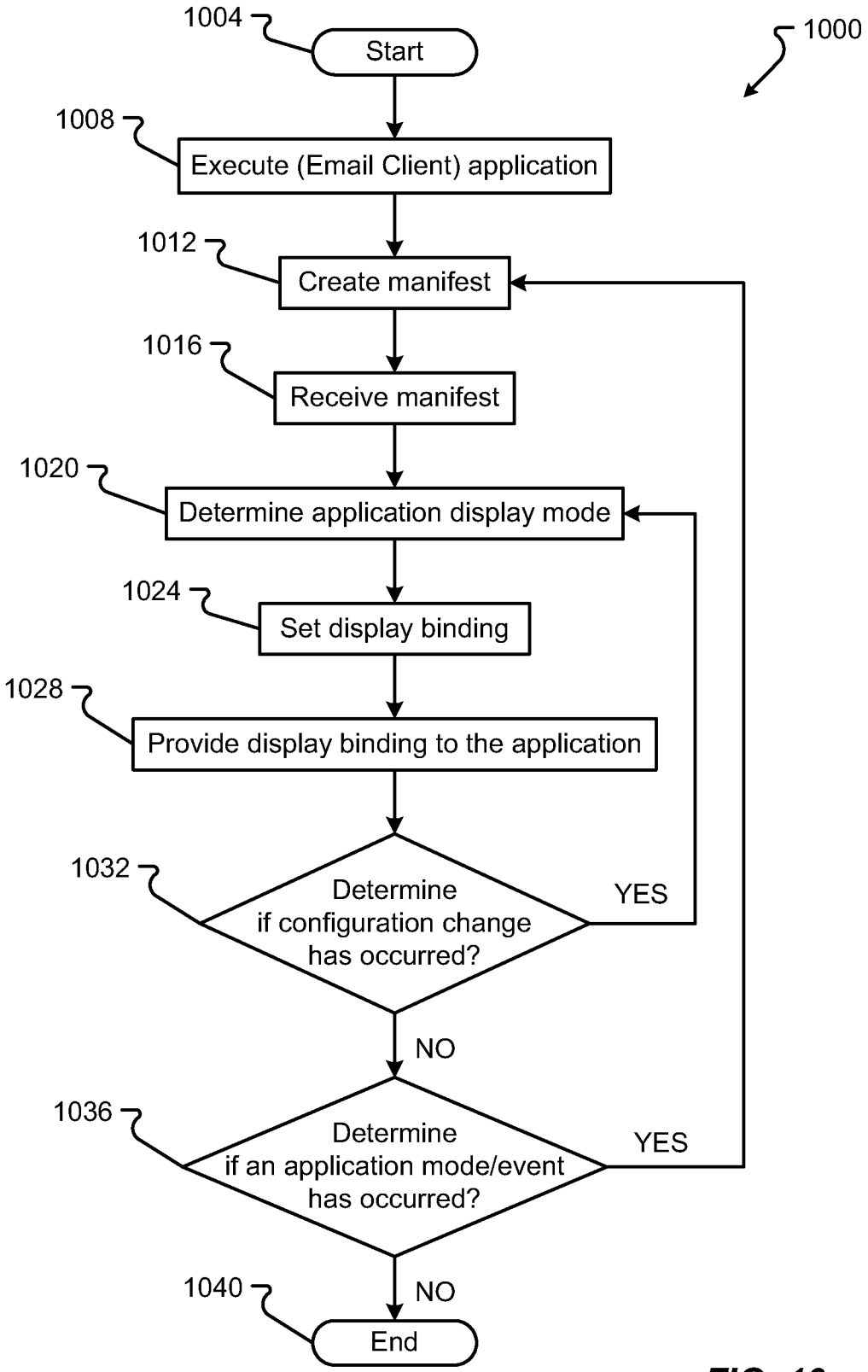

1004
Start
1000
1008
Execute (Email Client) application
1012
Create manifest
1016
Receive manifest
1020
Determine application display mode
1024
Set display binding
1028
Provide display binding to the application
1032
Determine if configuration change has occurred?
YES
NO
1036
Determine if an application mode/event has occurred?
YES
NO
1040
End

FIG. 10

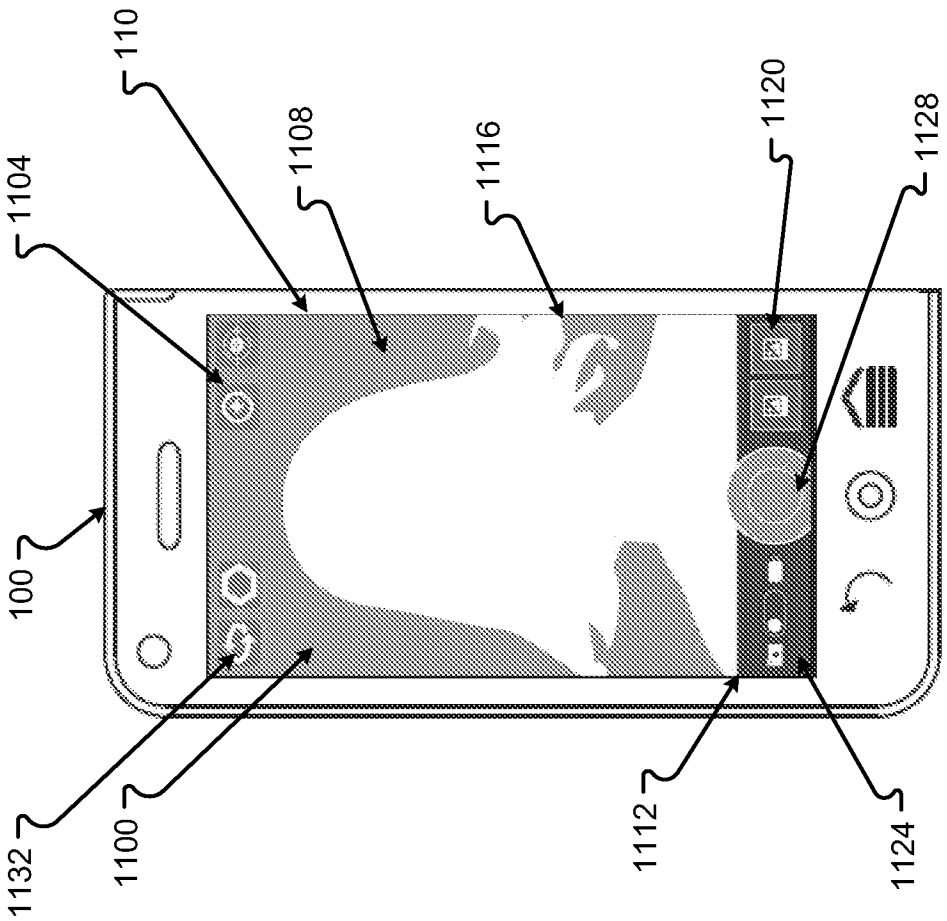


FIG. 11

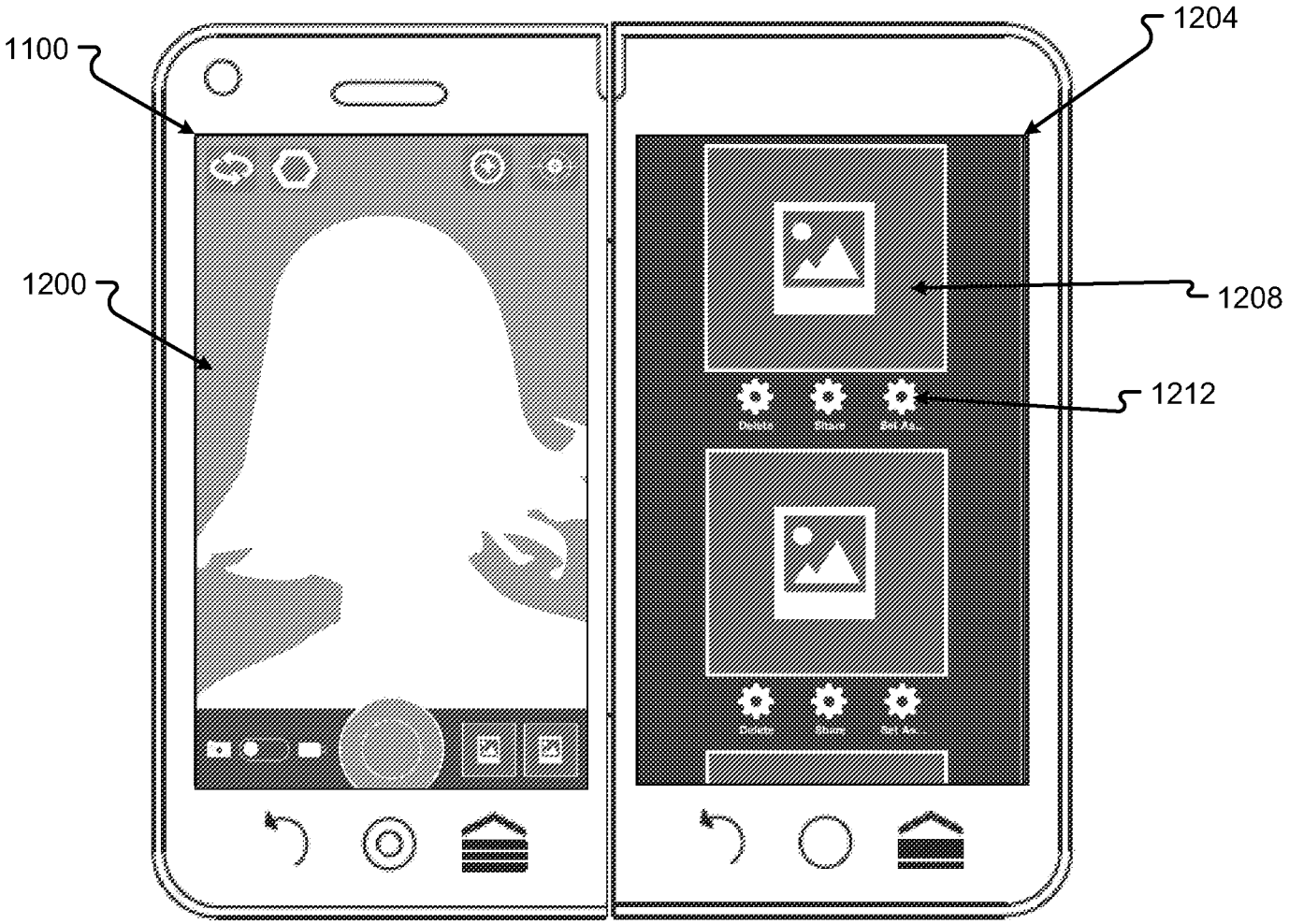


FIG. 12

Ex. 1002, p. 239
MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

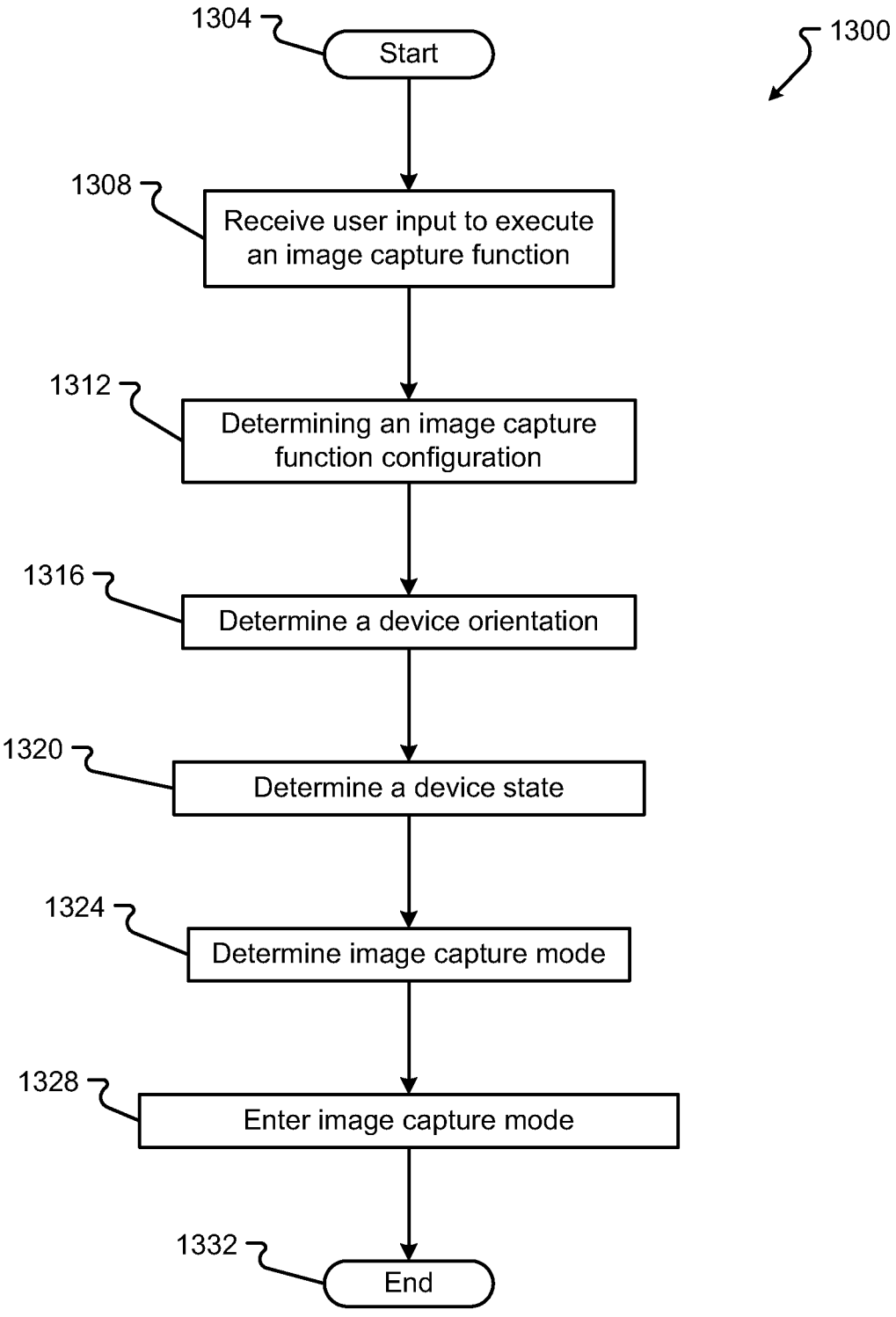

1304
Start
1300
1308
Receive user input to execute an image capture function
1312
Determining an image capture function configuration
1316
Determine a device orientation
1320
Determine a device state
1324
Determine image capture mode
1328
Enter image capture mode
1332
End

FIG. 13

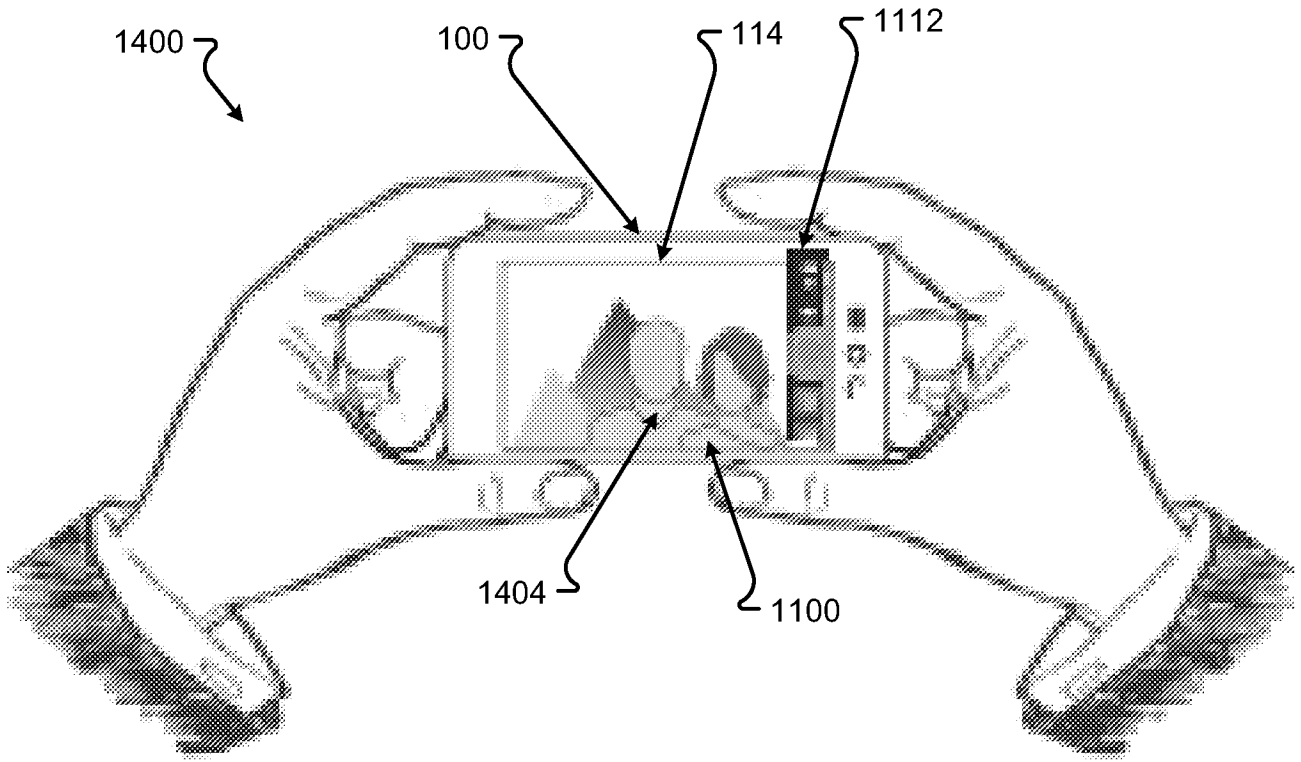


Fig. 14A

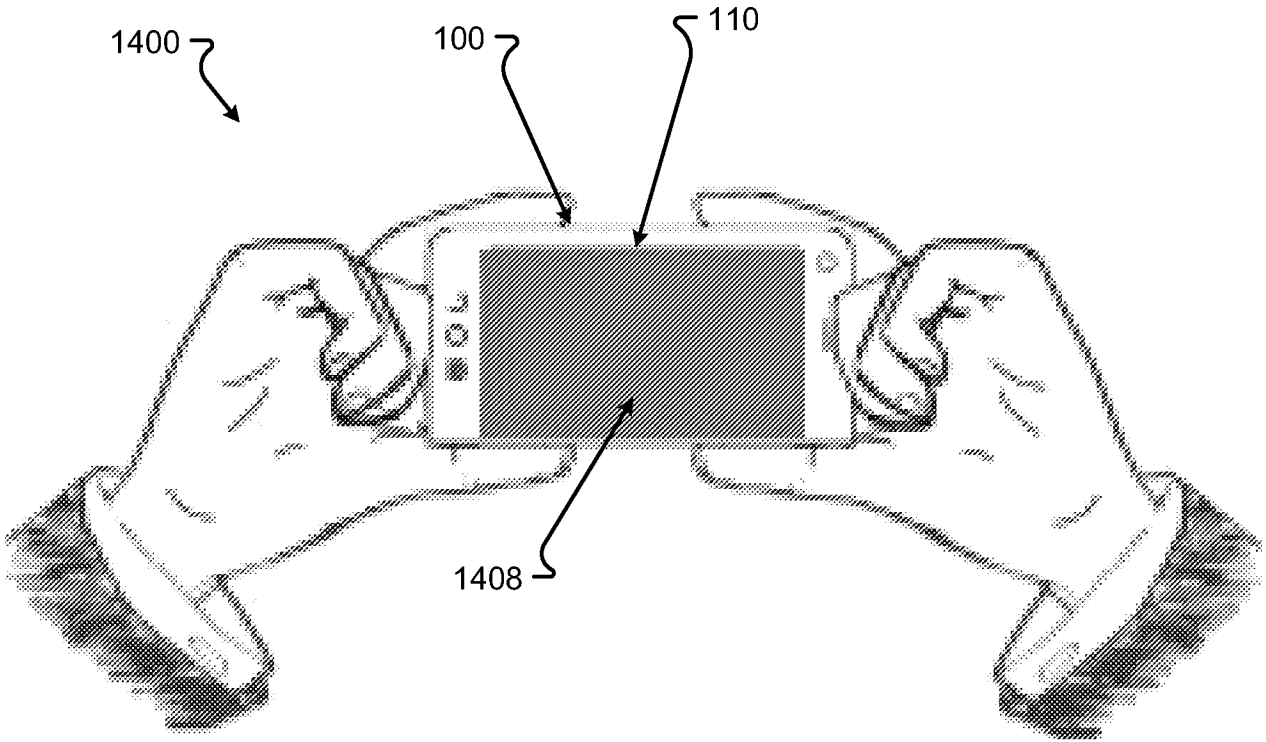


Fig. 14B

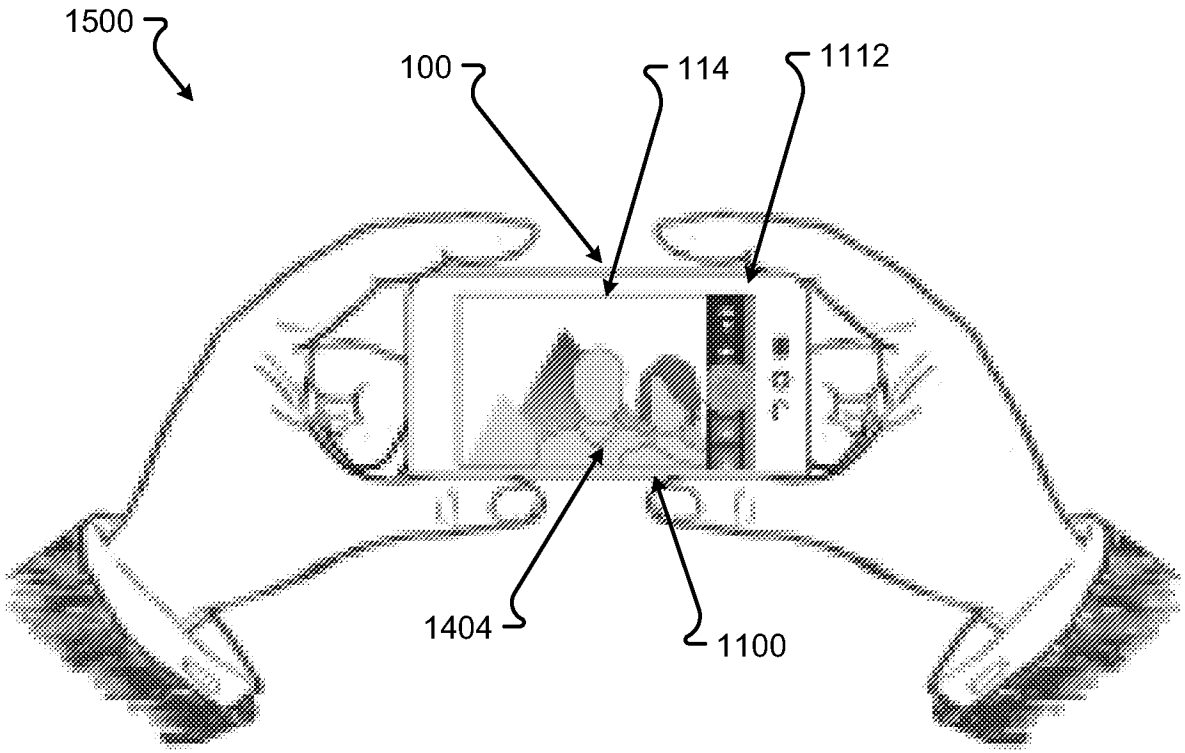


Fig. 15A

Ex. 1002, p. 243
MOTOROLA et al. v. MULTIFOLD
IPR2025-00038

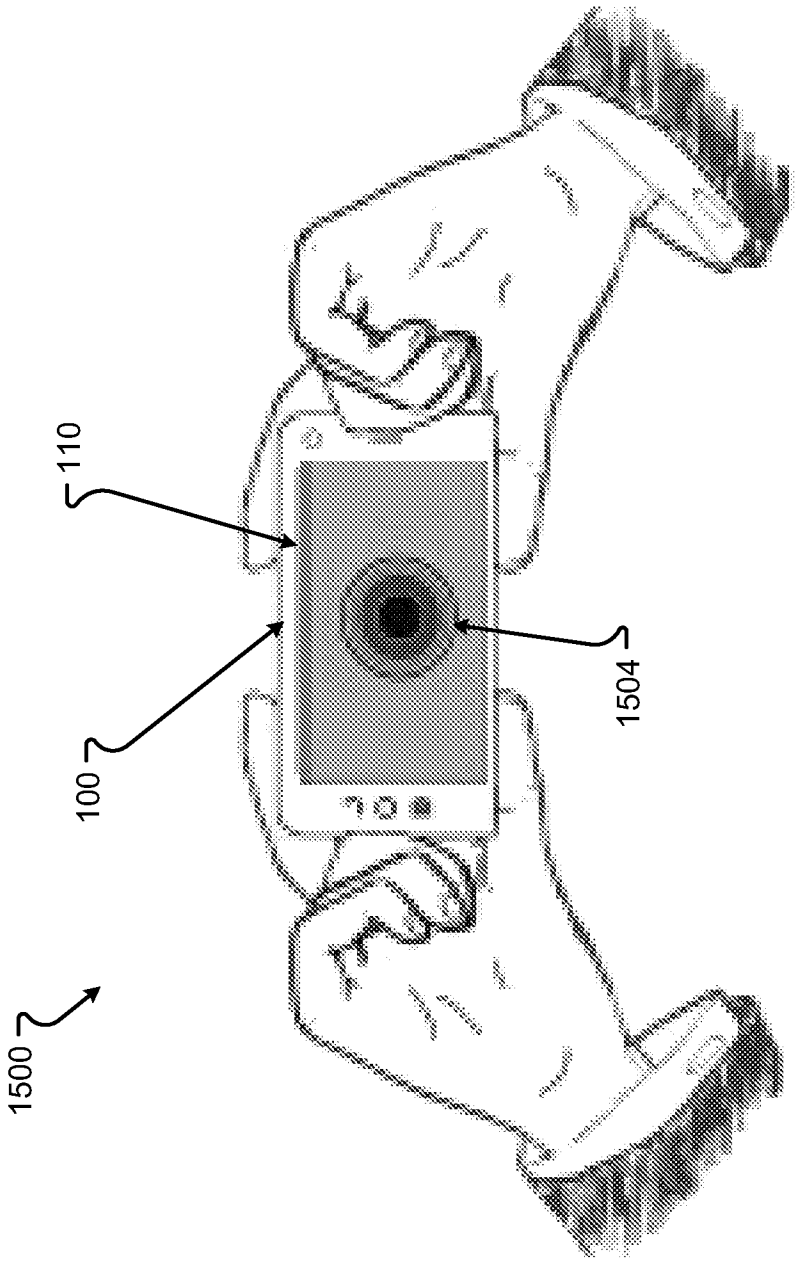


Fig. 15B

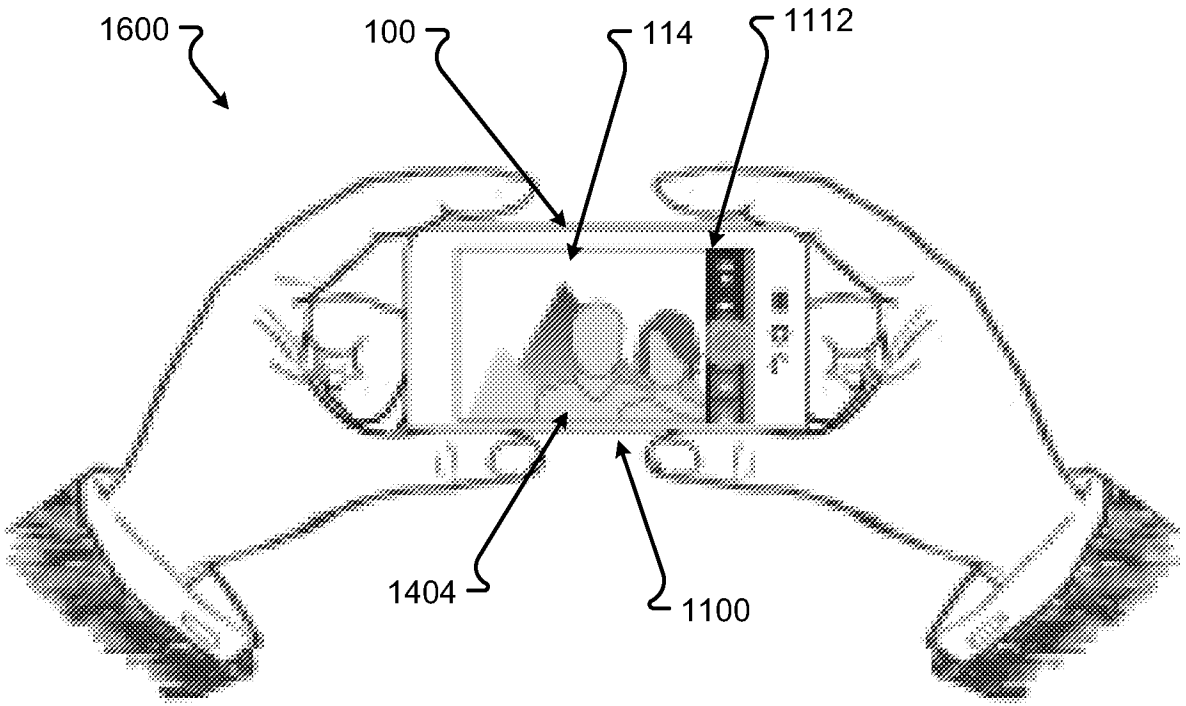


Fig. 16A

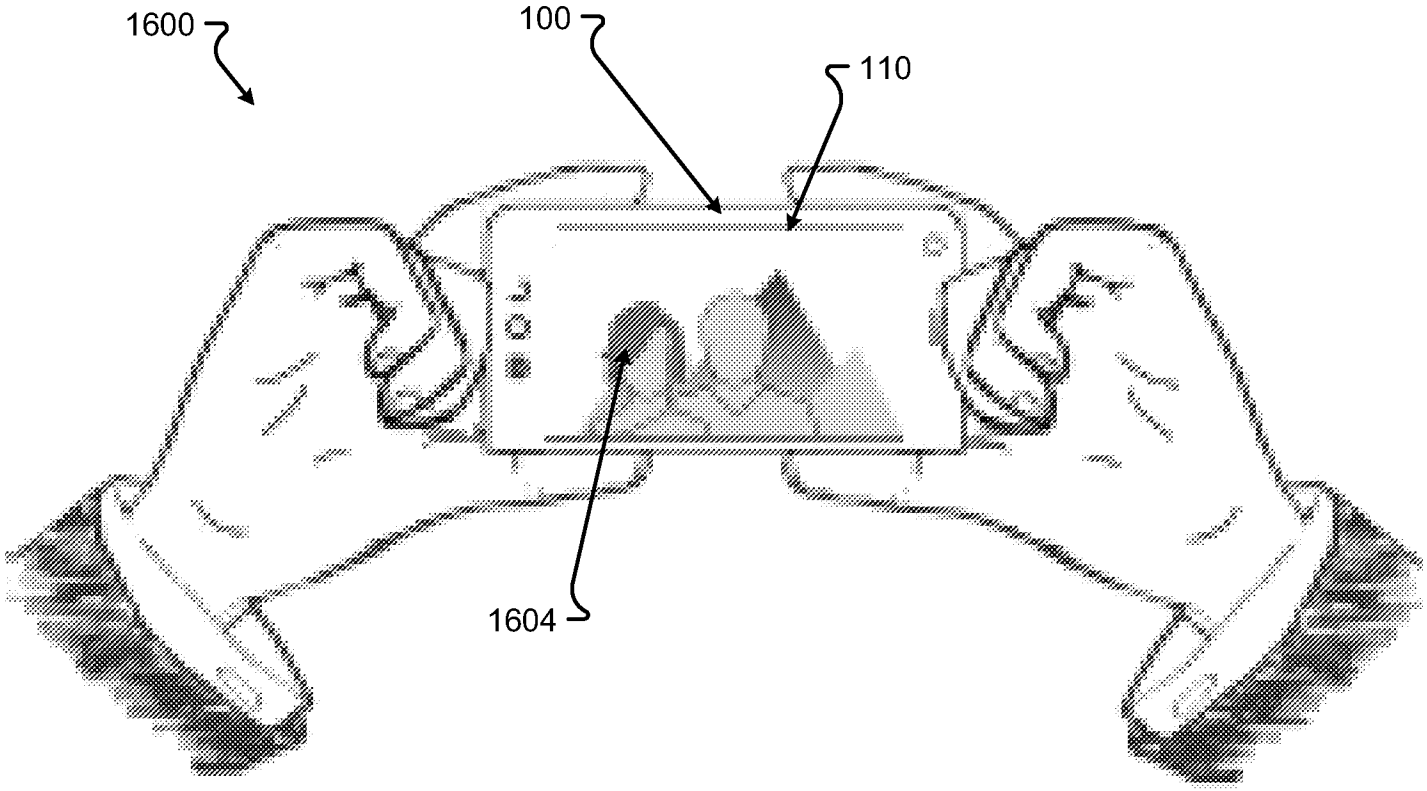


Fig. 16B

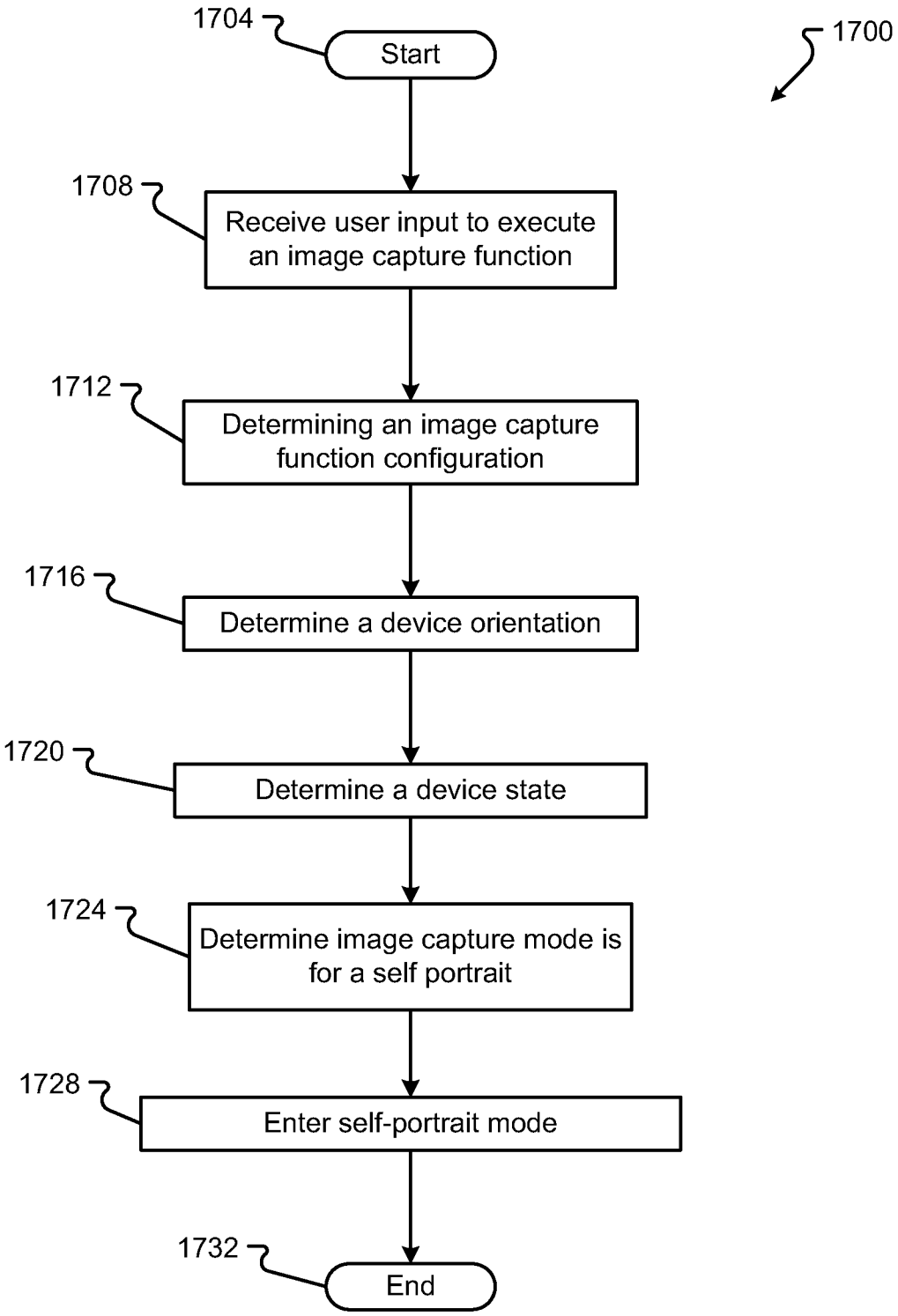

1704
Start
1700
1708
Receive user input to execute an image capture function
1712
Determining an image capture function configuration
1716
Determine a device orientation
1720
Determine a device state
1724
Determine image capture mode is for a self portrait
1728
Enter self-portrait mode
1732
End

FIG. 17

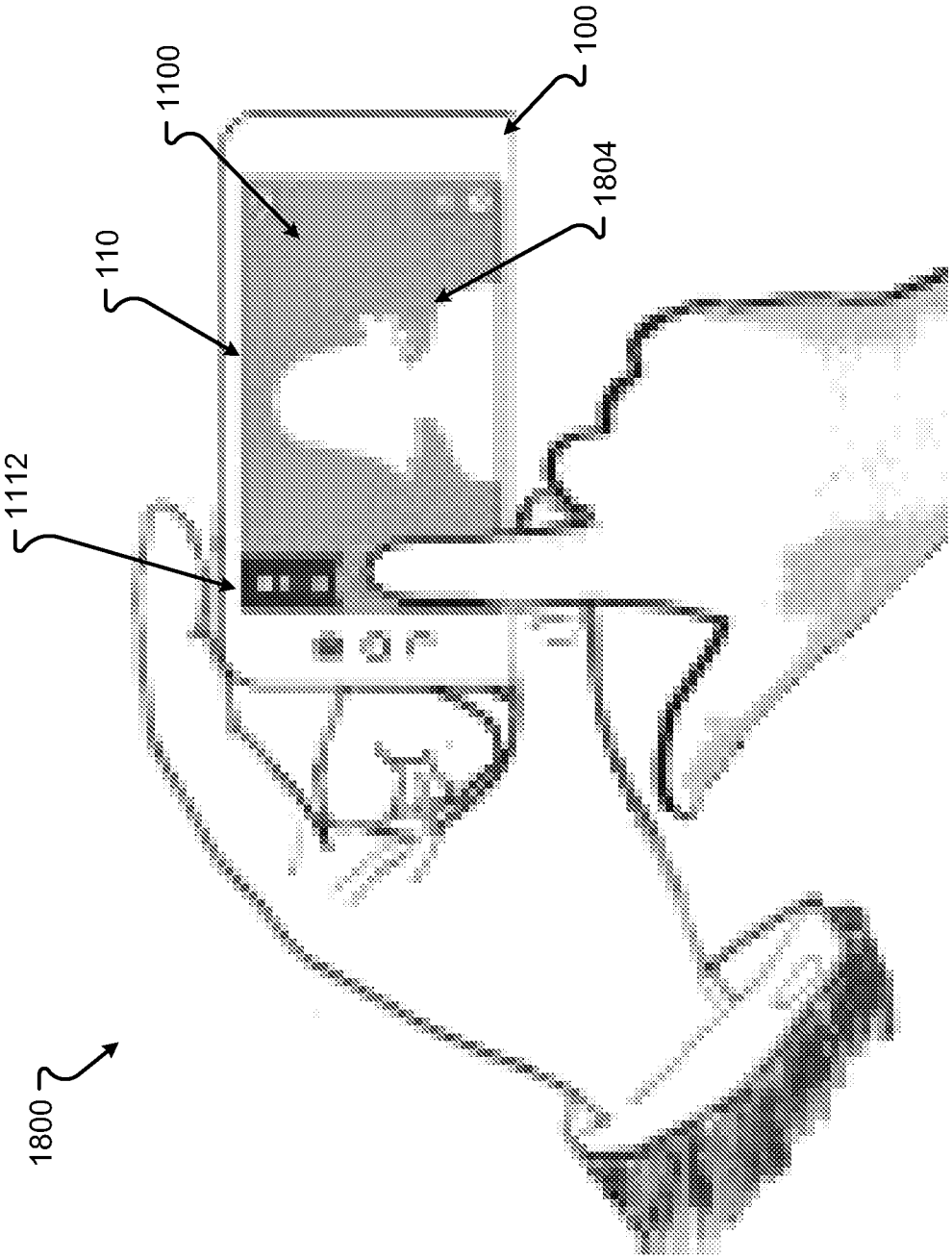


Fig. 18

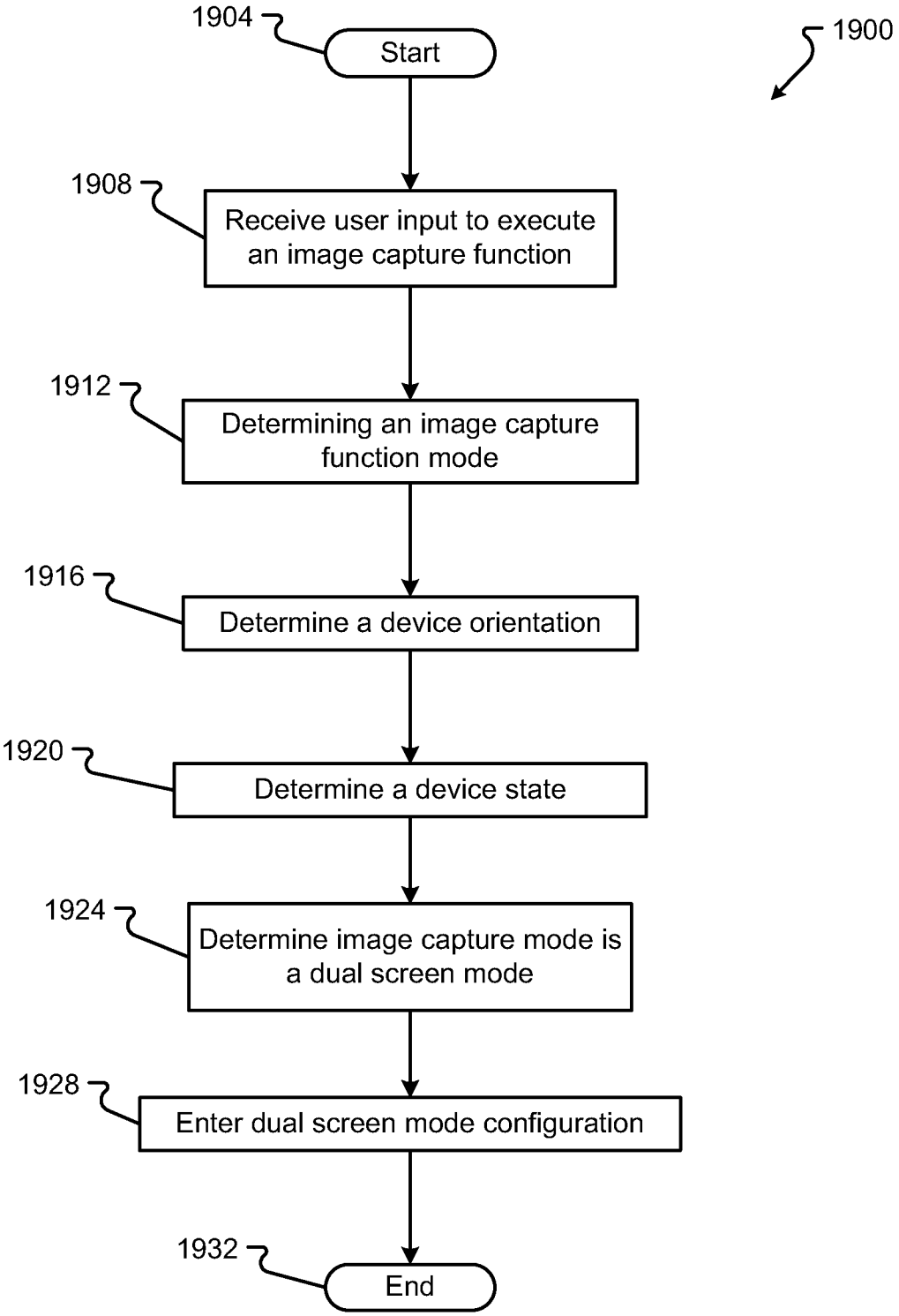

1904
Start
1900
1908
Receive user input to execute an image capture function
1912
Determining an image capture function mode
1916
Determine a device orientation
1920
Determine a device state
1924
Determine image capture mode is a dual screen mode
1928
Enter dual screen mode configuration
1932
End

FIG. 19

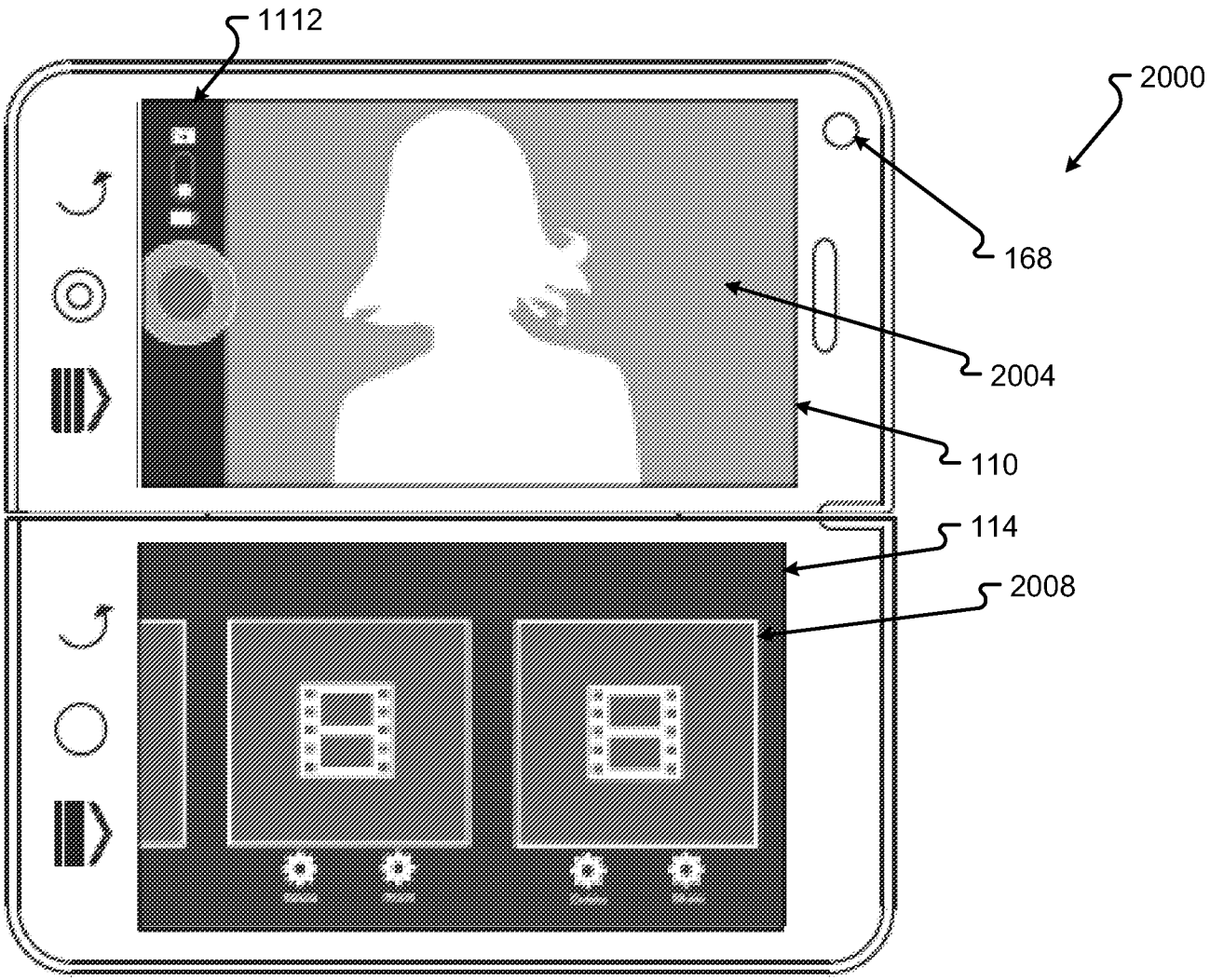


Fig. 20

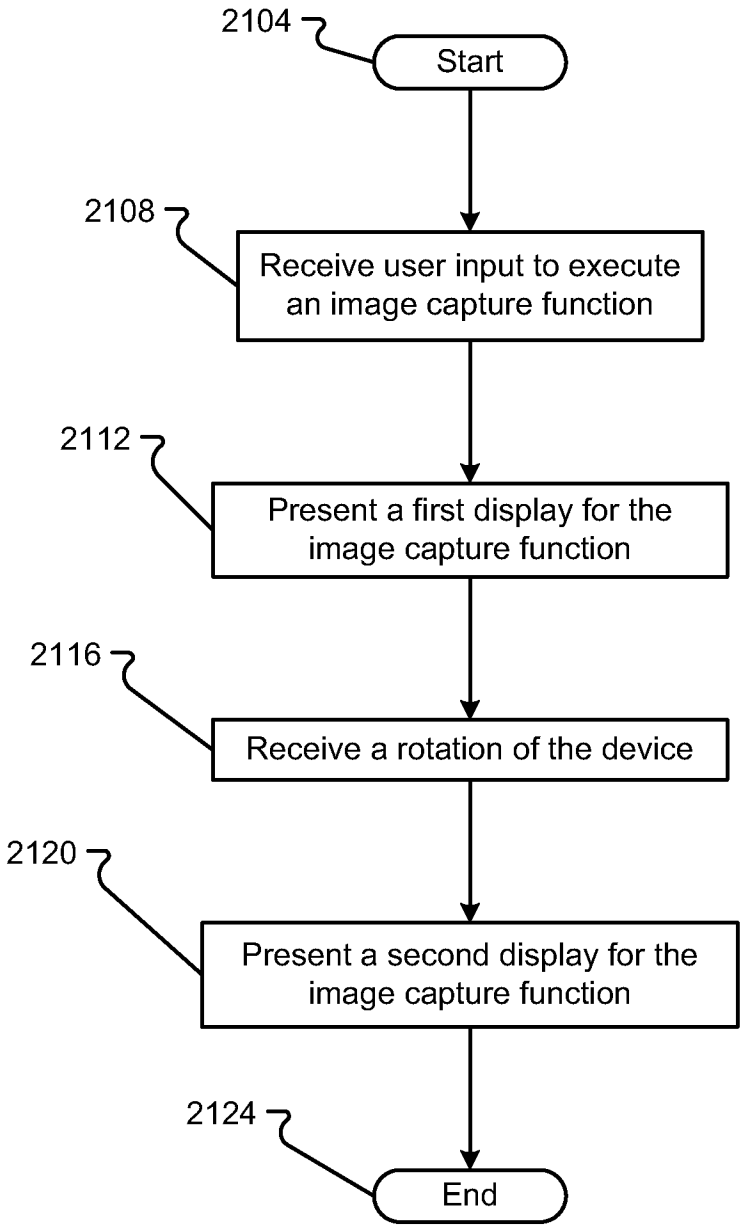

2104
Start
2100
2108
Receive user input to execute an image capture function
2112
Present a first display for the image capture function
2116
Receive a rotation of the device
2120
Present a second display for the image capture function
2124
End

FIG. 21

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	CAPTURE MODE OUTWARD FACING MODES
First Named Inventor/Applicant Name:	Sanjiv Sirpal
Filer:	Tadd Fjelp Wilson
Attorney Docket Number:	6583-282

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	380	380
Utility Search Fee	1111	1	620	620
Utility Examination Fee	1311	1	250	250
Pages:				
Claims:				
Miscellaneous-Filing:				
Late filing fee for oath or declaration	1051	1	130	130
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**1380**

Electronic Acknowledgement Receipt

EFS ID:	13844824
Application Number:	13627498
International Application Number:	
Confirmation Number:	1310
Title of Invention:	CAPTURE MODE OUTWARD FACING MODES
First Named Inventor/Applicant Name:	Sanjiv Sirpal
Customer Number:	22442
Filer:	Tadd Fjelp Wilson
Filer Authorized By:	
Attorney Docket Number:	6583-282
Receipt Date:	26-SEP-2012
Filing Date:	
Time Stamp:	16:08:55
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$1380
RAM confirmation Number	2862
Deposit Account	191970
Authorized User	

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 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	ADS.pdf	1399735 3c974f6b8c8aea9c0ab714a78ce5cb45ce040764	no	6
Warnings:					
Information:					
2		Application.pdf	287234 aedf345d01c5ecbdacbbae6f83a930e39566c7be	yes	59

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Specification	1	55
	Claims	56	58
	Abstract	59	59

Warnings:					
Information:					
3	Drawings-only black and white line drawings	Drawings.pdf	631877 b9a1de0674563fb3499bab5ada5a9e5b416cc670	no	38
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	36360 983a8fb90798ceb6edd923739f9cbac662971686	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2355206		

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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.

Electronic Acknowledgement Receipt

EFS ID:	13844824
Application Number:	13627498
International Application Number:	
Confirmation Number:	1310
Title of Invention:	CAPTURE MODE OUTWARD FACING MODES
First Named Inventor/Applicant Name:	Sanjiv Sirpal
Customer Number:	22442
Filer:	Tadd Fjelp Wilson
Filer Authorized By:	
Attorney Docket Number:	6583-282
Receipt Date:	26-SEP-2012
Filing Date:	
Time Stamp:	16:08:55
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$1380
RAM confirmation Number	2862
Deposit Account	191970
Authorized User	

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 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	ADS.pdf	1399735 3c974f6b8c8aea9c0ab714a78ce5cb45ce040764	no	6
Warnings:					
Information:					
2		Application.pdf	287234 aedf345d01c5ecbdacbbae6f83a930e39566c7be	yes	59

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Specification	1	55
	Claims	56	58
	Abstract	59	59

Warnings:					
Information:					
3	Drawings-only black and white line drawings	Drawings.pdf	631877 b9a1de0674563fb3499bab5ada5a9e5b416cc670	no	38
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	36360 983a8fb90798ceb6edd923739f9cbac662971686	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2355206		

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New Applications Under 35 U.S.C. 111

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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.

DocCode - SCORE

SCORE Placeholder Sheet for IFW Content

Application Number: 13627498 Document Date: 09/26/2012

The presence of this form in the IFW record indicates that the following document type was received in electronic format on the date identified above. This content is stored in the SCORE database.

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