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		
2		
3		
4		
5		

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.

AO 120 (Rev. 08/10)

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

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		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

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.

AO 120 (Rev. 08/10)

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

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		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

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.

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.
13/247,728	09/15/2015	9134756	6583-69	9244

111285 7590 08/26/2015

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 680 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):

Alexander de Paz, Burlington, CANADA;

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.
13/247,728	09/28/2011	Alexander de Paz	6583-69	9244

111285 7590 08/07/2015

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

EXAMINER
LEGGETT, ANDREA C.

ART UNIT	PAPER NUMBER
2171	

NOTIFICATION DATE	DELIVERY MODE
08/07/2015	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
edocket@sheridanross.com

Response to Rule 312 Communication	Application No.	Applicant(s)
	13/247,728	DE PAZ, ALEXANDER
	Examiner	Art Unit
	ANDREA LEGGETT	2171

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

1. ☒ The amendment filed on *29 July 2015* 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.

The IDS filed 7-28-15 cannot be considered because it lacks a statement as specified in 37 CFR 1.97(e).

/ANDREA LEGGETT/
Primary Examiner, Art Unit 2171

DO NOT ENTER: /A.L./

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	Group Art Unit: 2171
DE PAZ, Alexander	Confirmation No.: 9244
Serial No.: 13/247,728	Examiner: Andrea C. Leggett
Filed: September 28, 2011	
Atty. File No.: 6583-69	
Entitled: "DUAL SCREEN APPLICATION VISUAL INDICATOR"	***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 4, 2015. 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.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C. Leggett
Sheet	1	of	1	Attorney Docket Number	6583-69

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	2011/0047459	02/24/2011	Van Der Westhuizen	
	2	2011/0296333	12/01/2011	Bateman et al.	
	3	2012/0081278	04/05/2012	Freedman	

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	JORDAN, "Choose what opens when you plug in an iPhone," Mac Tips, Jan. 12, 2010, retrieved from http://web.archive.org/web/20100122014412/http://mactips.info/2010/01/choose-what-opens-when-you-plug-in-an-iphone, 3 pages
	5	KEAR, "Applescript to test is power adaptor is pugged in," LinkedIn AppleScript Developers, Dec. 22, 2010, retrieved from https://www.linkedin.com/grp/post/154178-38296878, 2 pages
	6	Official Action for European Patent Application No. 12180497.5, dated May 11, 2015 (Attorney's Ref. No. 6583-50-EP) 7 pages
	7	Official Action for U.S. Patent Application No. 13/247,823, mailed Jul. 21, 2015 (Attorney's Ref. No. 6583-49) 12 pages
	8	Official Action for U.S. Patent Application No. 13/341,666, mailed Apr. 24, 2015 (Attorney's Ref. No. 6583-107) 19 pages
	9	Official Action for U.S. Patent Application No. 13/341,634, mailed Apr. 24, 2015 (Attorney's Ref. No. 6583-108) 18 pages

Examiner Signature	/Andrea Leggett/	Date Considered	08/04/2015

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

DO NOT ENTER: /A.L./

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.
13/247,728	09/28/2011	Alexander de Paz	6583-69	9244

7590 08/04/2015

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

EXAMINER
LEGGETT, ANDREA C.

ART UNIT	PAPER NUMBER
2171	

NOTIFICATION DATE	DELIVERY MODE
08/04/2015	ELECTRONIC

NOTICE OF NON-COMPLIANT INFORMATION DISCLOSURE STATEMENT

An Information Disclosure Statement (IDS) filed 7/28/15 in the above-identified application fails to meet the requirements of 37 CFR 1.97(d) for the reason(s) specified below. Accordingly, the IDS will be placed in the file, but the information referred to therein has not been considered.

The IDS is not compliant with 37 CFR 1.97(d) because:

☑ The IDS lacks a statement as specified in 37 CFR 1.97(e).

☐ The IDS lacks the fee set forth in 37 CFR 1.17(p).

☐ The IDS was filed after the issue fee was paid. Applicant may wish to consider filing a petition to withdraw the application from issue under 37 CFR 1.313(c) to have the IDS considered. See MPEP 1308.

LH
571-272-4200 or 1-888-786-0101
Application Assistance Unit
Office of Data Management

Ex. 1002, p. 12
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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 05/04/2015
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.
13/247,728	09/28/2011	Alexander de Paz	6583-69	9244

TITLE OF INVENTION: DUAL SCREEN APPLICATION VISUAL INDICATOR

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	08/04/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
LEGGETT, ANDREA C.	2171	715-761000

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 4, 2015

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

Ex. 1002, p. 13
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Electronic Patent Application Fee Transmittal

Application Number:	13247728
Filing Date:	28-Sep-2011
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Filer:	Douglas W. Swartz/Christine Jacquet
Attorney Docket Number:	6583-69

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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

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

Electronic Acknowledgement Receipt

EFS ID:	23106897
Application Number:	13247728
International Application Number:	
Confirmation Number:	9244
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Customer Number:	111285
Filer:	Douglas W. Swartz/Christine Jacquet
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-69
Receipt Date:	04-AUG-2015
Filing Date:	28-SEP-2011
Time Stamp:	12:12:33
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	9973
Deposit Account	191970
Authorized User	SWARTZ, DOUGLAS W.

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	Issue-fee-transmittal_6583-69.pdf	92689 940f317ab1a0ac2743ddb4ad252ebebc7af8dd54	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30743 14ae9021f2715a01bf2b6874919b1e1917d4b415	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	123432		

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: 2171
DE PAZ, Alexander	Confirmation No.: 9244
Serial No.: 13/247,728	Examiner: Andrea C. Leggett
Filed: September 28, 2011	
Atty. File No.: 6583-69	
Entitled: "DUAL SCREEN APPLICATION VISUAL INDICATOR"	***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 4, 2015. 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.

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 of displaying a plurality of desktops and/or applications, each having at least one window, on a multi-display device, comprising:

receiving, by a processor, a first input that represents an instruction to reveal one of a desktop or application on a first display of the multi-display device;

selecting, by the processor, a first desktop or application to display on the first display;

receiving, by the processor, a second input that represents an instruction to reveal one of a desktop or application on a second display of the multi-display device;

selecting, by the processor, a second desktop or application to display on the second display;

displaying, by the processor, the selected first and second desktops or applications on the first and second displays;

receiving, by the processor, a third input that represents an instruction to maximize a selected one of the first or second desktops or applications resulting in the selected one being displayed on both of the first and second displays;[[_]] and

displaying, by the processor, the selected one of the first or second desktops or applications in a maximized condition.

2. (Original) The method of claim 1, wherein at least one of the first, second, and third inputs is achieved by at least a user input gesture.

3. (Original) The method of claim 1, wherein the third input is a user gesture comprising at least one of a tap or long hold gesture.

4. (Previously Presented) The method of claim 1, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that display can be maximized by a user gesture.

Ex. 1002, p. 19
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

5. (Previously Presented) The method of claim 4, wherein the visual indicator has a wave shape.

6. (Cancelled)

7. (Previously Presented) The method of claim 1, wherein a fourth input is an instruction to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only one of the first and second displays.

8. (Previously Presented) A non-transitory computer-readable medium having stored thereon instructions that cause a computing system to execute a method, the instructions comprising:

instructions configured to receive a first predetermined input that represents an instruction to determine and reveal a first desktop or application on a first display of the multi-display device;

instructions configured to receive a second predetermined input that represents an instruction to determine and reveal a second desktop or application on a second display of the multi-display device;

instructions configured to respond to the first and second predetermined inputs with outputs that cause the first desktop or application to be displayed on the first display and cause the second desktop or application to be displayed on the second display;

instructions configured to receive a third predetermined input that represents an instruction to maximize a selected one of the first or second desktops or applications resulting in the selected one being displayed on both of the first and second displays according to the instructions configured to respond to the third predetermined input; and

instructions configured to respond to the third predetermined input that causes displaying of the selected one of the first or second desktops or applications in a maximized condition.

9. (Previously Presented) The computer-readable medium of claim 8, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying

Ex. 1002, p. 20
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

that a desktop or application appearing on that display can be maximized by a user gesture according to the instructions configured to receive a third predetermined input.

10. (Cancelled)

11. (Previously Presented) The computer-readable medium of claim 8 wherein a fourth predetermined input is an instruction to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only one of the first and second displays according to the instructions configured to respond to the third predetermined input.

12. A multi-display user device, comprising:

a first display including a first display area;

a second display including a second display area;

a first user input gesture area of the first display;

a second user input gesture area of the second display, wherein the first and second user input gesture areas are configured to accept input from a user;

a non-transitory computer-readable medium having instructions stored thereon that include:

a first set of instructions configured to determine a number and identity of desktops or applications selected to be run by a user;

a second set of instructions configured to determine, based on the number and identity of the desktops or applications running, a window stack comprising a logical representation of the desktops and applications within an ordered group whereby a user can selectively move a selected desktop or application within the window stack and to be displayed in either the first or second displays;

a third set of instructions responsive to a gesture made by the user to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only one of the first and second displays; and

wherein the selected one of the first or second desktops or applications is displayed in a maximized or minimized condition.

Ex. 1002, p. 21
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

13. (Previously Presented) The device of claim 12, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that display can be maximized by a user gesture.

14. (Original) The device of claim 13, wherein the visual indicator has a wave shape.

15. (Previously Presented) The device of claim 12, wherein a fourth set of instructions are instructions to maximize a selected one of the first or second desktops or applications, resulting in the selected one being displayed on both of the first and second displays.

16. (Cancelled)

17. (Currently Amended) The device of ~~clam~~ claim 13, wherein the visual indicator appears on the applications or desktops running on both the first and second displays so that gestures made by the user to minimize a selected one of the first or second desktops or applications enables a user to minimize the applications or desktops appearing on both the first and second displays sequentially and repeatedly.

Ex. 1002, p. 22
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

REMARKS/ARGUMENTS

The amendments to Claims 1 and 17 do not require an additional search or examination, and the amendments are requested to correct minor typographical errors in the claims.

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. Although no fees are believed to be due with the filing of this paper, please charge any deficiency or credit any overpayment to Deposit Account 19-1970.

Respectfully submitted,

SHERIDAN ROSS P.C.

By: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37,739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: July 29, 2015

Ex. 1002, p. 23
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Electronic Acknowledgement Receipt

EFS ID:	23058504
Application Number:	13247728
International Application Number:	
Confirmation Number:	9244
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Customer Number:	111285
Filer:	Douglas W. Swartz/Amy Duarte
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-69
Receipt Date:	29-JUL-2015
Filing Date:	28-SEP-2011
Time Stamp:	14:53:53
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		Rule_312_Amendment_6583-69.pdf	149209 e83b963a295a84bbfe99047374c1ffbe513abcea	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:			
	Total Files Size (in bytes):	149209	

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.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
(Use as many sheets as necessary)				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C. Leggett
Sheet	1	of	1	Attorney Docket Number	6583-69

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	2011/0047459	02/24/2011	Van Der Westhuizen	
	2	2011/0296333	12/01/2011	Bateman et al.	
	3	2012/0081278	04/05/2012	Freedman	

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	JORDAN, "Choose what opens when you plug in an iPhone," Mac Tips, Jan. 12, 2010, retrieved from http://web.archive.org/web/20100122014412/http://mactips.info/2010/01/choose-what-opens-when-you-plug-in-an-iphone, 3 pages
	5	KEAR, "Applescript to test is power adaptor is pugged in," LinkedIn AppleScript Developers, Dec. 22, 2010, retrieved from https://www.linkedin.com/grp/post/154178-38296878, 2 pages
	6	Official Action for European Patent Application No. 12180497.5, dated May 11, 2015 (Attorney's Ref. No. 6583-50-EP) 7 pages
	7	Official Action for U.S. Patent Application No. 13/247,823, mailed Jul. 21, 2015 (Attorney's Ref. No. 6583-49) 12 pages
	8	Official Action for U.S. Patent Application No. 13/341,666, mailed Apr. 24, 2015 (Attorney's Ref. No. 6583-107) 19 pages
	9	Official Action for U.S. Patent Application No. 13/341,634, mailed Apr. 24, 2015 (Attorney's Ref. No. 6583-108) 18 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:	23044428
Application Number:	13247728
International Application Number:	
Confirmation Number:	9244
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Customer Number:	111285
Filer:	Douglas W. Swartz/Theresa Brown
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-69
Receipt Date:	28-JUL-2015
Filing Date:	28-SEP-2011
Time Stamp:	14:12:00
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		IDS_08.pdf	127516 7af82f2bb2954ba18ba740ffb85c70dcb63f3bb8	yes	3

	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Transmittal Letter		1	2	
	Information Disclosure Statement (IDS) Form (SB08)		3	3	
Warnings:					
Information:					
2	Non Patent Literature	JORDAN_Choose_what_opens.pdf	294906 42fb29d7838884733a40e8ebe3f50093ffa6f616	no	3
Warnings:					
Information:					
3	Non Patent Literature	KEAR_Applescript_to_test.pdf	164136 53e249f78858fc7bdd20976ba37ed37e7cc57789	no	2
Warnings:					
Information:					
4	Non Patent Literature	6583-50-EP_OA_05-11-2015.pdf	1144197 eed6342dc63cd8d57958342831f2a94cdb699820	no	7
Warnings:					
Information:					
5	Other Reference-Patent/App/Search documents	6583-49_OA_07-21-2015.pdf	482691 ddf4132023e77587eb597709c5335715442 1e5bf	no	12
Warnings:					
Information:					
6	Other Reference-Patent/App/Search documents	6583-107_FOA_04-24-2015.pdf	2167870 92510be03ef6dcaaed2ca5412d182344056c3027	no	19
Warnings:					
Information:					
7	Other Reference-Patent/App/Search documents	6583-108_FOA_04-24-2015.pdf	2087876 e35e6279501bbee9b17e4b939518d6044ec449b5	no	18
Warnings:					
Information:					
		Total Files Size (in bytes):	6469192		

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: 2171
Alexander de Paz	)	Confirmation No.: 9244
Serial No.: 13/247,728	)	Examiner: Andrea C. Leggett
Filed: September 28, 2011	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-69	)	
Entitled: "Dual Screen Application Visual Indicator"	)	*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

Ex. 1002, p. 30
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

Respectfully submitted,

SHERIDAN ROSS P.C.

DWJ

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

Date: July 27, 2015

Ex. 1002, p. 31
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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 05/04/2015

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

EXAMINER
LEGGETT, ANDREA C.

ART UNIT	PAPER NUMBER
2171	

DATE MAILED: 05/04/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/247,728	09/28/2011	Alexander de Paz	6583-69	9244

TITLE OF INVENTION: DUAL SCREEN APPLICATION VISUAL INDICATOR

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	08/04/2015

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

Ex. 1002, p. 32
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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 05/04/2015
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.
13/247,728	09/28/2011	Alexander de Paz	6583-69	9244

TITLE OF INVENTION: DUAL SCREEN APPLICATION VISUAL INDICATOR

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	08/04/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
LEGGETT, ANDREA C.	2171	715-761000

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. _____

Ex. 1002, p. 33
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.
13/247,728	09/28/2011	Alexander de Paz	6583-69	9244

111285 7590 05/04/2015

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

EXAMINER	
LEGGETT, ANDREA C.	

ART UNIT	PAPER NUMBER
2171	

DATE MAILED: 05/04/2015

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

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

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

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

Ex. 1002, p. 34
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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. 13/247,728	Applicant(s) DE PAZ, ALEXANDER	
	Examiner ANDREA LEGGETT	Art Unit 2171	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 *4-21-15*.
   ☐ 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 *1-5, 7-9, 11-15, and 17 renumbered as 1-14*. 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 4-28-15
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 _____.

/ANDREA LEGGETT/
Primary Examiner, Art Unit 2171

EXAMINER'S AMENDMENT

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

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with *Scott Weitzel* on 3-18-2015.

The application has been amended as follows:

Replace claims 1, 8, 12, and 17 with the following:

1. **(Currently Amended)** A method of displaying a plurality of desktops and/or applications, each having at least one window, on a multi-display device, comprising:

receiving, by a processor, a first input that represents an instruction to reveal one of a desktop or application on a first display of the multi-display device;

selecting, by the processor, a first desktop or application to display on the first display;

receiving, by the processor, a second input that represents an instruction to reveal one of a desktop or application on a second display of the multi-display device;

selecting, by the processor, a second desktop or application to display on the second display;

displaying, by the processor, the selected first and second desktops or applications on the first and second displays;

receiving, by the processor, a third input that represents an instruction to maximize a selected one of the first or second desktops or applications resulting in the selected one being displayed on both of the first and second displays; and

displaying, by the processor, the selected one of the first or second desktops or applications in a maximized condition.

8. (Currently Amended) A non-transitory computer-readable medium having stored thereon instructions that cause a computing system to execute a method, the instructions comprising:

instructions configured to receive a first predetermined input that represents an instruction to determine and reveal a first desktop or application on a first display of the multi-display device;

instructions configured to receive a second predetermined input that represents an instruction to determine and reveal a second desktop or application on a second display of the multi-display device;

instructions configured to respond to the first and second predetermined inputs with outputs that cause the first desktop or application to be displayed on the first display and cause the second desktop or application to be displayed on the second display;

instructions configured to receive a third predetermined input that represents an instruction to maximize a selected one of the first or second desktops or applications resulting in the selected one being displayed on both of the first and second displays according to the instructions configured to respond to the third predetermined input; and

instructions configured to respond to the third predetermined input that causes displaying of the selected one of the first or second desktops or applications in a maximized condition.

12. (**Currently Amended**) A multi-display user device, comprising:

a first display including a first display area;

a second display including a second display area;

a first user input gesture area of the first display;

a second user input gesture area of the second display, wherein the first and second user input gesture areas are configured to accept input from a user;

a non-transitory computer-readable medium having instructions stored thereon that include:

a first set of instructions configured to determine a number and identity of desktops or applications selected to be run by a user;

a second set of instructions configured to determine, based on the number and identity of the desktops or applications running, a window stack comprising a logical representation of the desktops and applications within an ordered group whereby a user can selectively move a selected desktop or application within the window stack and to be displayed in either the first or second displays;

a third set of instructions responsive to a gesture made by the user to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only one of the first and second displays; and

wherein the selected one of the first or second desktops or applications is displayed in a maximized or minimized condition.

17. (**Currently Amended**) The device of clam 13, wherein the visual indicator appears on the applications or desktops running on both the first and second displays so that gestures made by the user to minimize a selected one of the first or second desktops or applications enables a user to minimize the applications or desktops appearing on both the first and second displays sequentially and repeatedly.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREA LEGGETT whose telephone number is (571)270-7700. The examiner can normally be reached on Mon.-Fri. 8:00 am - 5:00 pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt M. Kim can be reached on (571)272-4182. 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.

/ANDREA LEGGETT/
Primary Examiner, Art Unit 2171

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"US 20120084676"	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2015/04/28 11:20
L2	10	(("6014135") or ("6301245") or ("6430174") or ("6661877") or ("7978182") or ("8350919") or ("8472926") or ("8539361") or ("8564543") or ("8739071")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/04/28 11:52
L3	22	(("20040075691") or ("20040122853") or ("20060195252") or ("20060281453") or ("20070005715") or ("20070146321") or ("20070176898") or ("20070271527") or ("20070282956") or ("20080037726") or ("20080086703") or ("20090029674") or ("20090106676") or ("20090137278") or ("20090228807") or ("20100007603") or ("20100037184") or ("20100125815") or ("20100297304") or ("20110018821") or ("20110153044") or ("20110291964")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/04/28 11:59
L4	9	(("20120052845") or ("20120079099") or ("20120083260") or ("20120124148") or ("20120290965") or ("20130024780") or ("20130095801") or ("20130238728") or ("20140022285")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/04/28 12:04
S1	64	((ALEXANDER) near2 ("DE PAZ")).INV.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2014/01/25 20:10
S3	5	(("20100245256") or ("20100245209") or ("20080062625") or ("20080165144") or ("20100085382")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/25 20:22
S4	2	(("20100182265") or ("20100298032")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/25 20:30
S5	1	("20110230178").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/25 20:40
S6	51	wave shape with indicator	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:32
S7	26	wave shape with (pointer or cursor)	US-PGPUB; USPAT;	ADJ	OFF	2014/01/25 22:36

			USOCR; DERWENT			
S8	7	curve shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:38
S9	103	(curve or curvy) with shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:39
S10	7	(curve or curvy) shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:39
S11	4	loop shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:42
S12	3	loop shape with indicator	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:42
S13	1	("20100305843").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 18:24
S14	214	"715/761".CCLS.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2014/01/26 19:34
S15	31	(("20060082518") or ("20060206825") or ("20080122796") or ("20080062625") or ("20080165144") or ("20080174570") or ("20090119678") or ("20090254861") or ("20100064244") or ("20100081475") or ("20100079355") or ("20100085274") or ("20100085382") or ("20100088532") or ("20100100842") or ("20100182247") or ("20100182265") or ("20100223553") or ("20100245209") or ("20100245256") or ("20100298032") or ("20100321275") or ("20110230178") or ("20120081270") or ("20120081277") or ("20120081302") or ("20120081400") or ("20120084674") or ("20120084693") or ("20120084720") or ("20120084722")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 19:46
S16	10	(("7996045") or ("20020097194") or ("20100137027") or ("20100182251") or ("20100227651") or ("20100280676") or ("20110128241") or ("20120246374") or ("20120297304") or ("20120299554")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 19:51
S17	20	(("6919864") or ("7289083") or ("8228292") or ("8261213") or ("8289292") or ("20060211454") or ("20070198948") or ("20080059915") or ("20090235203") or	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 19:53

		("20090262074") or ("20100088634") or ("20100245240") or ("20100304791") or ("20110175805") or ("20110187662") or ("20110209058") or ("20110210922") or ("20110239142") or ("20120005602") or ("20120280924") or ("2013012025~")).PN.				
S18	18	(("6331840") or ("6545669") or ("7839419") or ("8356258") or ("20030059003") or ("20050289478") or ("20060012951") or ("20060227106") or ("20080036743") or ("20090291760") or ("20090298548") or ("20100064536") or ("20100162128") or ("20100164836") or ("20100211872") or ("20100262554") or ("20100313156") or ("20110025625")).PN. or ((2011/0074717) or (2011/0107272) or (2011/0157057) or (2012/0054401)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 19:56
S19	1	("20110230178").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/19 08:59
S20	1	("20100085382").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/19 14:30
S21	2	"US 20120084676"	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 15:54
S22	50	g06f 3/04883	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 15:59
S23	12	g06f 3/04883 and (minimiz$9 or maximiz$9)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 16:00
S24	16	g06f 3/0486	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 17:33
S25	1	dual (display or screen) same first application same second application same (maximiz$9 or minimiz$9)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 17:41
S26	1	dual (display or screen) (maximiz$9 or minimiz$9)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 17:50
S27	169	dual (display or screen) same (maximiz$9 or minimiz$9)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 17:51

S28	88	dual (display or screen) same (maximiz$9 or minimiz$9) and second (window or application)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 17:51
S29	4	(("20070285401") or ("20100081475") or ("20100060587") or ("20040095401")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/19 18:07
S30	1	("20110209097").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/19 19:08
S31	1	("5835090").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/19 19:52
S32	1	("20090278806").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/21 14:29
S33	3	(("20080070593") or ("20110197200") or ("20080104227")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/22 12:49
S34	4	(("6068121") or ("20100053089") or ("20110006971") or ("20110252317")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/03/18 14:58
S35	2	"US 20120084676"	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2015/03/18 15:44
S36	509	g06f 3/048	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2015/03/18 15:44

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S37	91	((ALEXANDER) near2 ("DE PAZ")).INV.	US-PGPUB; USPAT; UPAD	ADJ	OFF	2015/03/18 16:18
S38	14	((dual screen or multi-screen or multi screen) with (maximiz$9 or minimiz$9)).clm.	US-PGPUB; USPAT; UPAD	ADJ	OFF	2015/03/18 16:21
S39	16	((dual screen or multi-screen or multi screen) same (maximiz$9 or minimiz$9)).clm.	US-PGPUB; USPAT; UPAD	ADJ	OFF	2015/03/18 16:22
S40	208	z124	US-PGPUB; USPAT; UPAD	ADJ	OFF	2015/03/18 16:23
S41	130	imerj.as.	US-PGPUB; USPAT; UPAD	ADJ	OFF	2015/03/18 16:24

4/28/2015 12:08:20 PM
C:\Users\aleggett\Documents\EAST\Workspaces\13-247728.wsp

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13247728	DE PAZ, ALEXANDER
	Examiner	**Art Unit**
	ANDREA LEGGETT	2171

CPC						
Symbol					**Type**	**Version**
G06F		3	/	0481	F	2013-01-01
G06F		3	/	048	I	2013-01-01
G06F		3	/	04812	I	2013-01-01
G06F		1	/	1616	I	2013-01-01
G06F		1	/	1641	I	2013-01-01
G06F		3	/	0483	I	2013-01-01
G06F		3	/	04883	I	2013-01-01
G06F		3	/	1423	A	2013-01-01
G06F		3	/	0488	I	2013-01-01
G06F		3	/	04886	I	2013-01-01
G06F		2200	/	1614	A	2013-01-01
G06F		1	/	1677	I	2013-01-01
G06F		3	/	017	I	2013-01-01
G06F		3	/	0484	I	2013-01-01
G06F		3	/	04842	I	2013-01-01
G06F		1	/	16	I	2013-01-01
G06F		3	/	0412	I	2013-01-01

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

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	14	
/ANDREA LEGGETT/ Primary Examiner.Art Unit 2171	4-28-2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13247728	DE PAZ, ALEXANDER
	Examiner	**Art Unit**
	ANDREA LEGGETT	2171

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
		G	0	6	F	3 / 048 (2013.01.01)						
CROSS REFERENCE(S)												
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)											

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	14	
/ANDREA LEGGETT/ Primary Examiner.Art Unit 2171	4-28-2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13247728	DE PAZ, ALEXANDER
	Examiner	**Art Unit**
	ANDREA LEGGETT	2171

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	13	17												
2	2														
3	3														
4	4														
5	5														
	6														
6	7														
7	8														
8	9														
	10														
9	11														
10	12														
11	13														
12	14														
14	15														
	16														

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 14	
/ANDREA LEGGETT/ Primary Examiner.Art Unit 2171 (Primary Examiner)	4-28-2015 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1A

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13247728	DE PAZ, ALEXANDER
	Examiner	**Art Unit**
	ANDREA LEGGETT	2171

✓	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	01/26/2014	08/21/2014	03/18/2015	04/28/2015					
1	1	✓	✓	=	=					
2	2	✓	✓	=	=					
3	3	✓	✓	=	=					
4	4	✓	✓	=	=					
5	5	✓	✓	=	=					
	6	✓	✓	-	-					
6	7	✓	✓	=	=					
7	8	✓	✓	=	=					
8	9	✓	✓	=	=					
	10	✓	✓	-	-					
9	11	✓	✓	=	=					
10	12	✓	✓	=	=					
11	13	✓	✓	=	=					
12	14	✓	✓	=	=					
14	15	✓	✓	=	=					
	16	✓	✓	-	-					
13	17	✓	✓	=	=					

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
(Use as many sheets as necessary)				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C. Leggett
Sheet	1	of	3	Attorney Docket Number	6583-69

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	6014135	01/11/2000	Fernandes	
	2	6301245	10/09/2001	Luzeski et al.	
	3	6430174	08/06/2002	Jennings et al.	
	4	6661877	12/09/2003	Lee et al.	
	5	7978182	07/12/2011	Ording et al.	
	6	8350919	01/08/2013	Schindler	
	7	8472926	06/25/2013	Doudkine et al.	
	8	8539361	09/17/2013	Hardy et al.	
	9	8564543	10/22/2013	Chaudhri	
	10	8739071	05/27/2014	Klassen et al.	
	11	2004/0075691	04/22/2004	Moon	
	12	2004/0122853	06/24/2004	Moore	
	13	2006/0195252	08/31/2006	Orr et al.	
	14	2006/0281453	12/14/2006	Jaiswal et al.	
	15	2007/0005715	01/04/2007	LeVasseur et al.	
	16	2007/0146321	06/28/2007	Sohn et al.	
	17	2007/0176898	08/02/2007	Suh	
	18	2007/0271527	11/22/2007	Paas et al.	
	19	2007/0282956	12/06/2007	Staats	
	20	2008/0037726	02/14/2008	Yao et al.	
	21	2008/0086703	04/10/2008	Flynt et al.	
	22	2009/0029674	01/29/2009	Brezina et al.	
	23	2009/0106676	04/23/2009	Brezina et al.	
	24	2009/0137278	05/28/2009	Haru et al.	
	25	2009/0228807	09/10/2009	Lemay	
	26	2010/0007603	01/14/2010	Kirkup	
	27	2010/0037184	02/11/2010	Sie	
	28	2010/0125815	05/20/2010	Wang et al.	
	29	2010/0297304	11/25/2010	Maxwell	
	30	2011/0018821	01/27/2011	Kii	
	31	2011/0153044	06/23/2011	Lindahl et al.	
	32	2011/0291964	12/01/2011	Chambers et al.	

Examiner Signature	/Andrea Leggett/	Date Considered	04/28/2015

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.L./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
(Use as many sheets as necessary)				Art Unit	2171
				Examiner Name	Andrea C. Leggett
Sheet	2	of	3	Attorney Docket Number	6583-69

	33	2012/0052845	03/01/2012	Olivier et al.	
	34	2012/0079099	03/29/2012	Dhara et al.	
	35	2012/0083260	04/05/2012	Arriola et al.	
	36	2012/0124148	05/17/2012	Hamlin et al.	
	37	2012/0290965	11/15/2012	Ignor et al.	
	38	2013/0024780	01/24/2013	Sutedja et al.	
	39	2013/0095801	04/18/2013	Kermoian et al.	
	40	2013/0238728	09/12/2013	Fleck et al.	
	41	2014/0022285	01/23/2014	Stovicek 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.
	42	Notice of Allowance for U.S. Patent Application No. 13/247,359, mailed Dec. 11, 2014 (Attorney's Ref. No. 6583-44) 6 pages
	43	Official Action for U.S. Patent Application No. 13/247,787, mailed Dec. 22, 2014 (Attorney's Ref. No. 6583-46) 18 pages
	44	Notice of Allowance for U.S. Patent Application No. 13/247,787, mailed Apr. 21, 2015 (Attorney's Ref. No. 6583-46) 12 pages
	45	Official Action for U.S. Patent Application No. 13/247,311, mailed Mar. 5, 2015 (Attorney's Ref. No. 6583-48) 7 pages
	46	Official Action for U.S. Patent Application No. 13/247,823, mailed Dec. 22, 2014 (Attorney's Ref. No. 6583-49), 18 pages
	47	Official Action for U.S. Patent Application No. 13/248,199, mailed Nov. 14, 2014 (Attorney's Ref. No. 6583-71) 15 pages
	48	Official Action for U.S. Patent Application No. 13/248,199, mailed Mar. 16, 2015 (Attorney's Ref. No. 6583-71) 16 pages
	49	Official Action for U.S. Patent Application No. 13/341,666, mailed Oct. 23, 2014 (Attorney's Ref. No. 6583-107) 19 pages

Examiner Signature	/Andrea Leggett/	Date Considered	04/28/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.L./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C. Leggett
Sheet	3	of	3	Attorney Docket Number	6583-69

	50	Official Action for U.S. Patent Application No. 13/627,680, mailed Oct. 24, 2014 (Attorney's Ref. No. 6583-172) 18 pages
	51	Notice of Allowance for U.S. Patent Application No. 13/365,157, mailed Nov. 7, 2014 (Attorney's Ref. No. 6583-181) 8 pages
	52	Official Action for U.S. Patent Application No. 13/365,1553, mailed Oct. 24, 2014 (Attorney's Ref. No. 6583-182) 19 pages
	53	Notice of Allowance for U.S. Patent Application No. 13/365,1553, mailed Feb. 18, 2015 (Attorney's Ref. No. 6583-182) 8 pages
	54	Official Action for U.S. Patent Application No. 13/365,148, mailed Oct. 15, 2014 (Attorney's Ref. No. 6583-183) 13 pages
	55	Official Action for U.S. Patent Application No. 13/365,148, mailed Mar. 25, 2015 (Attorney's Ref. No. 6583-183) 11 pages

Examiner Signature	/Andrea Leggett/	Date Considered	04/28/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.L./

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13247728	DE PAZ, ALEXANDER
	Examiner	Art Unit
	ANDREA LEGGETT	2171

CPC- SEARCHED		
Symbol	Date	Examiner
G06F 3/04883	8/21/2014	A.L.
G06F 3/0486	8/21/2014	A.L.
G06F 3/048	3/18/2015	A.L.

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
715	761	1/26/2014	A.L.

SEARCH NOTES		
Search Notes	Date	Examiner
East Search	1/26/2014	A.L.
Inventor Name Search (EAST)	1/26/2014	A.L.
EAST Search	8/21/2014	A.L.
Class/Subclass with Text (EAST)	8/21/2014	A.L.
EAST Search	3/18/2015	A.L.
NPL Search (see attached)	3/18/2015	A.L.
EAST Search	4/28/2015	A.L.

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
370	255,338	5/24/13	MA
	USPGPUB Text Search - see Interference printout	3/18/2015	A.L.

	/ANDREA LEGGETT/ Primary Examiner.Art Unit 2171

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	13/247,728	Filing Date	2011-09-28	Docket Number (if applicable)	6583-69	Art Unit	2171
First Named Inventor	DE PAZ, Alexander			Examiner Name	LEGGETT, Andrea C.		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☒ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 191970

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Tadd F. Wilson/	Date (YYYY-MM-DD)	2015-04-21
Name	Tadd F. Wilson	Registration Number	54544

This collection of information is required by 37 CFR 1.114. 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.

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 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.

Ex. 1002, p. 56
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	Confirmation No.: 9244
DE PAZ, Alexander	TC/A.U.: 2171
Serial No.: 13/247,728	Examiner: LEGGETT, Andrea C.
Filed: September 28, 2011	
Atty. File No.: 6583-69	
For: "DUAL SCREEN APPLICATION VISUAL INDICATOR"	***Filed Electronically***

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

PRELIMINARY AMENDMENT

Dear Commissioner:

Applicant submits this Preliminary Amendment, and Request for Continued Examination filed concurrently herewith, to address typographical and other errors in the claims. 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.

Please amend the above-identified patent application as follows:

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 of displaying a plurality of desktops and/or applications, each having at least one window, on a multi-~~screen~~display device, comprising:

receiving, by a processor, a first input that represents an instruction to reveal one of a desktop or application on a first display of the multi-~~screen~~display device;

selecting, by the processor, a first desktop or application to display on the first display;

receiving, by the processor, a second input that represents an instruction to reveal one of a desktop or application on a second display of the multi-~~screen~~display device;

selecting, by the processor, a second desktop or application to display on the second display;

displaying, by the processor, the selected first and second desktops or applications on the first and second displays;

receiving, by the processor, a third input that represents an instruction to maximize or minimize a selected one of the first or second desktops or applications resulting in the selected one being displayed on both of the first and second displays; ~~and~~ and

displaying, by the processor, the selected one of the first or second desktops or applications in a maximized or minimized condition.

2. (Original) The method of claim 1, wherein at least one of the first, second, and third inputs is achieved by at least a user input gesture.

3. (Original) The method of claim 1, wherein the third input is a user gesture comprising at least one of a tap or long hold gesture.

Ex. 1002, p. 58
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

4. (Previously Presented) The method of claim 1, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that display can be maximized by a user gesture.

5. (Previously Presented) The method of claim 4, wherein the visual indicator has a wave shape.

6. (Cancelled)

7. (Previously Presented) The method of claim 1, wherein a fourth input is an instruction to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only one of the first and second displays.

8. (Currently Amended) A non-transitory computer-readable medium having stored thereon instructions that cause a computing system to execute a method, the instructions comprising:

instructions configured to receive a first predetermined input that represents an instruction to determine and reveal a first desktop or application on a first display of the multi-~~screen~~display device;

instructions configured to receive a second predetermined input that represents an instruction to determine and reveal a second desktop or application on a second display of the multi-~~screen~~display device;

instructions configured to respond to the first and second predetermined inputs with outputs that cause the first desktop or application to be displayed on the first display and cause the second desktop or application to be displayed on the second display;

instructions configured to receive a third predetermined input that represents an instruction to maximize or minimize a selected one of the first or second desktops or applications resulting in the selected one being displayed on both of the first and second displays according to the instructions configured to respond to the third predetermined input; and

Ex. 1002, p. 59
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

instructions configured to respond to the third predetermined input that causes displaying of the selected one of the first or second desktops or applications in a maximized or minimized condition.

9. (Previously Presented) The computer-readable medium of claim 8, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that display can be maximized by a user gesture according to the instructions configured to receive a third predetermined input.

10. (Cancelled)

11. (Previously Presented) The computer-readable medium of claim 8 wherein a fourth predetermined input is an instruction to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only one of the first and second displays according to the instructions configured to respond to the third predetermined input.

12. (Currently Amended) A multi-~~screen~~display user device, comprising:

a first display including a first display area;

a second display including a second display area;

a first user input gesture area of the first display;

a second user input gesture area of the second display, wherein the first and second user input gesture areas are configured to accept input from a user;

a non-transitory computer-readable medium having instructions stored thereon that include:

a first set of instructions configured to determine a number and identity of desktops or applications selected to be run by a user;

a second set of instructions configured to determine, based on the number and identity of the desktops or applications running, a window stack comprising a logical representation of the desktops and applications within an ordered group whereby a user can

Ex. 1002, p. 60
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

selectively move a selected desktop or application within the window stack and to be displayed in either the first or second displays;

a third set of instructions responsive to a gesture made by the user to maximize or minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only one of the first and second displays; and

wherein the selected one of the first or second desktops or applications is displayed in a maximized or minimized condition.

13. (Previously Presented) The device of claim 12, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that display can be maximized by a user gesture.

14. (Original) The device of claim 13, wherein the visual indicator has a wave shape.

15. (Previously Presented) The device of claim 12, wherein a fourth set of instructions are instructions to maximize a selected one of the first or second desktops or applications, resulting in the selected one being displayed on both of the first and second displays.

16. (Cancelled)

17. (Previously Presented) The device of claim 13, wherein the visual indicator appears on the applications or desktops running on both the first and second displays so that gestures made by the user to maximize or minimize a selected one of the first or second desktops or applications enables a user to maximize and minimize the applications or desktops appearing on both the first and second displays sequentially and repeatedly.

Ex. 1002, p. 61
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

REMARKS

Status of the Claims

In the Notice of Allowance dated March 23, 2015, claims 1-5, 7-9, 11-15, and 17 were allowed. Claims 1, 7, 11, 16, and 17 are amended. No new claims have been added or cancelled. Applicants respectfully request reconsideration of this application as amended. All claims were previously allowed, and Applicants believe these changes do not change the reasons for allowance.

CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application are in a condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested. Applicants do not acquiesce to any objection, rejection, or argument not specifically addressed herein. Rather, the Applicants believe the amendments and arguments contained herein overcome all objections, rejections, or arguments.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at (303) 863-2987.

The Commissioner is hereby authorized to charge to deposit account number 19-1970 any fees under 37 CFR § 1.16 and 1.17 that may be required by this paper and to credit any overpayment to that Account. If any extension of time is required in connection with the filing of this paper and has not been separately requested, such extension is hereby petitioned.

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: April 21, 2015

Ex. 1002, p. 62
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 2171
Alexander de Paz	)	Confirmation No.: 9244
Serial No.: 13/247,728	)	Examiner: Andrea C. Leggett
Filed: September 28, 2011	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-69	)	
Entitled: "DUAL SCREEN APPLICATION VISUAL INDICATOR"	)	*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

Ex. 1002, p. 63
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

Ex. 1002, p. 64
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

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

Date: April 21, 2015

Ex. 1002, p. 65
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
(Use as many sheets as necessary)				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C. Leggett
Sheet	1	of	3	Attorney Docket Number	6583-69

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	6014135	01/11/2000	Fernandes	
	2	6301245	10/09/2001	Luzeski et al.	
	3	6430174	08/06/2002	Jennings et al.	
	4	6661877	12/09/2003	Lee et al.	
	5	7978182	07/12/2011	Ording et al.	
	6	8350919	01/08/2013	Schindler	
	7	8472926	06/25/2013	Doudkine et al.	
	8	8539361	09/17/2013	Hardy et al.	
	9	8564543	10/22/2013	Chaudhri	
	10	8739071	05/27/2014	Klassen et al.	
	11	2004/0075691	04/22/2004	Moon	
	12	2004/0122853	06/24/2004	Moore	
	13	2006/0195252	08/31/2006	Orr et al.	
	14	2006/0281453	12/14/2006	Jaiswal et al.	
	15	2007/0005715	01/04/2007	LeVasseur et al.	
	16	2007/0146321	06/28/2007	Sohn et al.	
	17	2007/0176898	08/02/2007	Suh	
	18	2007/0271527	11/22/2007	Paas et al.	
	19	2007/0282956	12/06/2007	Staats	
	20	2008/0037726	02/14/2008	Yao et al.	
	21	2008/0086703	04/10/2008	Flynt et al.	
	22	2009/0029674	01/29/2009	Brezina et al.	
	23	2009/0106676	04/23/2009	Brezina et al.	
	24	2009/0137278	05/28/2009	Haru et al.	
	25	2009/0228807	09/10/2009	Lemay	
	26	2010/0007603	01/14/2010	Kirkup	
	27	2010/0037184	02/11/2010	Sie	
	28	2010/0125815	05/20/2010	Wang et al.	
	29	2010/0297304	11/25/2010	Maxwell	
	30	2011/0018821	01/27/2011	Kii	
	31	2011/0153044	06/23/2011	Lindahl et al.	
	32	2011/0291964	12/01/2011	Chambers et al.	

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.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
(Use as many sheets as necessary)				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C. Leggett
Sheet	2	of	3	Attorney Docket Number	6583-69

	33	2012/0052845	03/01/2012	Olivier et al.	
	34	2012/0079099	03/29/2012	Dhara et al.	
	35	2012/0083260	04/05/2012	Arriola et al.	
	36	2012/0124148	05/17/2012	Hamlin et al.	
	37	2012/0290965	11/15/2012	Ignor et al.	
	38	2013/0024780	01/24/2013	Sutedja et al.	
	39	2013/0095801	04/18/2013	Kermoian et al.	
	40	2013/0238728	09/12/2013	Fleck et al.	
	41	2014/0022285	01/23/2014	Stovicek 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.
	42	Notice of Allowance for U.S. Patent Application No. 13/247,359, mailed Dec. 11, 2014 (Attorney's Ref. No. 6583-44) 6 pages
	43	Official Action for U.S. Patent Application No. 13/247,787, mailed Dec. 22, 2014 (Attorney's Ref. No. 6583-46) 18 pages
	44	Notice of Allowance for U.S. Patent Application No. 13/247,787, mailed Apr. 21, 2015 (Attorney's Ref. No. 6583-46) 12 pages
	45	Official Action for U.S. Patent Application No. 13/247,311, mailed Mar. 5, 2015 (Attorney's Ref. No. 6583-48) 7 pages
	46	Official Action for U.S. Patent Application No. 13/247,823, mailed Dec. 22, 2014 (Attorney's Ref. No. 6583-49), 18 pages
	47	Official Action for U.S. Patent Application No. 13/248,199, mailed Nov. 14, 2014 (Attorney's Ref. No. 6583-71) 15 pages
	48	Official Action for U.S. Patent Application No. 13/248,199, mailed Mar. 16, 2015 (Attorney's Ref. No. 6583-71) 16 pages
	49	Official Action for U.S. Patent Application No. 13/341,666, mailed Oct. 23, 2014 (Attorney's Ref. No. 6583-107) 19 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.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
(Use as many sheets as necessary)				Art Unit	2171
				Examiner Name	Andrea C. Leggett
Sheet	3	of	3	Attorney Docket Number	6583-69

	50	Official Action for U.S. Patent Application No. 13/627,680, mailed Oct. 24, 2014 (Attorney's Ref. No. 6583-172) 18 pages
	51	Notice of Allowance for U.S. Patent Application No. 13/365,157, mailed Nov. 7, 2014 (Attorney's Ref. No. 6583-181) 8 pages
	52	Official Action for U.S. Patent Application No. 13/365,1553, mailed Oct. 24, 2014 (Attorney's Ref. No. 6583-182) 19 pages
	53	Notice of Allowance for U.S. Patent Application No. 13/365,1553, mailed Feb. 18, 2015 (Attorney's Ref. No. 6583-182) 8 pages
	54	Official Action for U.S. Patent Application No. 13/365,148, mailed Oct. 15, 2014 (Attorney's Ref. No. 6583-183) 13 pages
	55	Official Action for U.S. Patent Application No. 13/365,148, mailed Mar. 25, 2015 (Attorney's Ref. No. 6583-183) 11 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 Patent Application Fee Transmittal

Application Number:	13247728
Filing Date:	28-Sep-2011
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Filer:	Tadd Fjelp Wilson/Amy Duarte
Attorney Docket Number:	6583-69

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Request for Continued Examination	1801	1	1200	1200
		Total in USD ($)		**1200**

Electronic Acknowledgement Receipt

EFS ID:	22126757
Application Number:	13247728
International Application Number:	
Confirmation Number:	9244
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Customer Number:	111285
Filer:	Tadd Fjelp Wilson/Amy Duarte
Filer Authorized By:	Tadd Fjelp Wilson
Attorney Docket Number:	6583-69
Receipt Date:	21-APR-2015
Filing Date:	28-SEP-2011
Time Stamp:	16:54:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$1200
RAM confirmation Number	3876
Deposit Account	191970
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	RCE.pdf	697791 a3efc8e569a9f7a5eac6ca7e0138ce1224ad6dd0	no	3
Warnings:					
Information:					
2		AMEND_03_PrelimAmend_6583-69.pdf	149770 31b5fed18532be23a5cd326f87aa9fd13f1c483f	yes	6

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Preliminary Amendment	1	1
	Claims	2	5
	Applicant Arguments/Remarks Made in an Amendment	6	6

Warnings:					
Information:					
3		6583-69_IDS_07.pdf	249005 10150fec009c53f8d946f45d4311bde640259a5d	yes	6

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal Letter	1	3
	Information Disclosure Statement (IDS) Form (SB08)	4	6

Warnings:					
Information:					
4	Other Reference-Patent/App/Search documents	6583-44_NOA_12-11-2014.pdf	718272 0b08aa11ae2e5adb415c9566ef031ab95aef4825	no	6
Warnings:					
Information:					

5	Other Reference-Patent/App/Search documents	6583-46_OA_12-22-2014.pdf	1374070 28e73ca778e06ab8ff5a12f2f5b57701b512228d	no	18
Warnings:					
Information:					
6	Other Reference-Patent/App/Search documents	6583-46_NOA_04-21-2015.pdf	574779 80d6690dbd825c6ba4f2a0a65e3f7e975368016d	no	12
Warnings:					
Information:					
7	Other Reference-Patent/App/Search documents	6583-48_OA_03-05-2015.pdf	289579 b56014fde15f32b03168152ddbaa26bbff495c9b	no	7
Warnings:					
Information:					
8	Other Reference-Patent/App/Search documents	6583-49_OA_12-22-2014.pdf	1559517 14813301dc6c6b2304872b4df7377f9d1c8431c8	no	18
Warnings:					
Information:					
9	Other Reference-Patent/App/Search documents	6583-71_FOA_11-14-2014.pdf	503656 fe0b5783f84fdc704f1d239255b3a1e3dd81e7b5	no	15
Warnings:					
Information:					
10	Other Reference-Patent/App/Search documents	6583-71_OA_03-16-2015.pdf	549854 1615370bd49dfb590f366d604c9d4a4dbcc3923c	no	16
Warnings:					
Information:					
11	Other Reference-Patent/App/Search documents	6583-107_OA_10-23-2014.pdf	904261 a1879068c37c2ed6b9479f568c432961ae813088	no	19
Warnings:					
Information:					
12	Other Reference-Patent/App/Search documents	6583-172_OA_10-24-2014.pdf	547614 4204b43bbb47843dbd5660a7295178b58d9c2e86	no	18
Warnings:					
Information:					
13	Other Reference-Patent/App/Search documents	6583-181_NOA_11-07-2014.pdf	1058240 4c7952894d3ff4b1ee4186a039a0b376be54527c	no	8
Warnings:					
Information:					

14	Other Reference-Patent/App/Search documents	6583-182_OA_10-24-2014.pdf	656813 3c90ab4e24edee894b3e0cf2ff971152866c139f	no	19
Warnings:					
Information:					
15	Other Reference-Patent/App/Search documents	6583-182_NOA_02-18-2015.pdf	429729 3df51ece792c66d70942de8116a2f0ada2cbc002	no	8
Warnings:					
Information:					
16	Other Reference-Patent/App/Search documents	6583-183_OA_10-15-2014.pdf	397094 99ec6ef24fef6c2ef77e94e275089d150290fead	no	13
Warnings:					
Information:					
17	Other Reference-Patent/App/Search documents	6583-183_OA_03-25-2015.pdf	326093 1e230c28104f39b89f25930af22ea7e230f96e23	no	11
Warnings:					
Information:					
18	Fee Worksheet (SB06)	fee-info.pdf	30512 a3c961223a99f931bd6efb0e8dc104ba4370e1cb	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	11016649		

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

111285 7590 03/23/2015

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

EXAMINER
LEGGETT, ANDREA C.

ART UNIT	PAPER NUMBER
2171	

DATE MAILED: 03/23/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/247,728	09/28/2011	Alexander de Paz	6583-69	9244

TITLE OF INVENTION: DUAL SCREEN APPLICATION VISUAL INDICATOR

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	06/23/2015

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

Ex. 1002, p. 75
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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 03/23/2015
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.
13/247,728	09/28/2011	Alexander de Paz	6583-69	9244

TITLE OF INVENTION: DUAL SCREEN APPLICATION VISUAL INDICATOR

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	06/23/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
LEGGETT, ANDREA C.	2171	715-761000

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. _____

Ex. 1002, p. 76
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.
13/247,728	09/28/2011	Alexander de Paz	6583-69	9244

111285 7590 03/23/2015

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

EXAMINER	
LEGGETT, ANDREA C.	

ART UNIT	PAPER NUMBER
2171	

DATE MAILED: 03/23/2015

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

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

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

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

Ex. 1002, p. 77
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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. 13/247,728	Applicant(s) DE PAZ, ALEXANDER	
	Examiner ANDREA LEGGETT	Art Unit 2171	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 *11-25-14 & 3-18-15*.
   ☐ 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 *1-5, 7-9, 11-15, and 17 renumbered as 1-14*. 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 10-8-14
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 _____.

/ANDREA LEGGETT/
Primary Examiner, Art Unit 2171

EXAMINER'S AMENDMENT

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

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with *Scott Weitzel* on 3-18-2015.

The application has been amended as follows:

Replace claims 1-17 with the following:

1. **(Currently Amended)** A method of displaying a plurality of desktops and/or applications, each having at least one window, on a multi-screen device, comprising:

receiving, by a processor, a first input that represents an instruction to reveal one of a desktop or application on a first display of the multi-screen device;

selecting, by the processor, a first desktop or application to display on the first display;

receiving, by the processor, a second input that represents an instruction to reveal one of a desktop or application on a second display of the multi-screen device;

selecting, by the processor, a second desktop or application to display on the second display;

displaying, by the processor, the selected first and second desktops or applications on the first and second displays;

receiving, by the processor, a third input that represents an instruction to maximize a selected one of the first or second desktops or applications **resulting in the selected one being displayed on both of the first and second displays**; and

displaying, by the processor, the selected one of the first or second desktops or applications in a maximized condition.

2. (Original) The method of claim 1, wherein at least one of the first, second, and third inputs is achieved by at least a user input gesture.

3. (Original) The method of claim 1, wherein the third input is a user gesture comprising at least one of a tap or long hold gesture.

4. (**Currently Amended**) The method of claim 1, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that display can be maximized by a user gesture.

5. (Previously Presented) The method of claim 4, wherein the visual indicator has a wave shape.

6. (**Cancelled**)

7. (**Currently Amended**) The method of claim 1, wherein **a fourth** input is an instruction to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only one of the first and second displays.

8. (Currently Amended) A non-transitory computer-readable medium having stored thereon instructions that cause a computing system to execute a method, the instructions comprising:

instructions configured to receive a first predetermined input that represents an instruction to determine and reveal a first desktop or application on a first display of the multi-screen device;

instructions configured to receive a second predetermined input that represents an instruction to determine and reveal a second desktop or application on a second display of the multi-screen device;

instructions configured to respond to the first and second predetermined inputs with outputs that cause the first desktop or application to be displayed on the first display and cause the second desktop or application to be displayed on the second display;

instructions configured to receive a third predetermined input that represents an instruction to maximize a selected one of the first or second desktops or applications **resulting in the selected one being displayed on both of the first and second displays according to the instructions configured to respond to the third predetermined input**; and

instructions configured to respond to the third predetermined input that causes displaying of the selected one of the first or second desktops or applications in a maximized condition.

9. (Currently Amended) The computer-readable medium of claim 8, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that display can be maximized by a user gesture according to the instructions configured to receive a third predetermined input.

10. (**Cancelled**)

11. (**Currently Amended**) The computer-readable medium of claim 8 wherein **a fourth** predetermined input is an instruction to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only one of the first and second displays according to the instructions configured to respond to the third predetermined input.

12. (**Currently Amended**) A multi-screen user device, comprising:

a first display including a first display area;

a second display including a second display area;

a first user input gesture area of the first display;

a second user input gesture area of the second display, wherein the first and second user input gesture areas are configured to accept input from a user;

a non-transitory computer-readable medium having instructions stored thereon that include:

a first set of instructions configured to determine a number and identity of desktops or applications selected to be run by a user;

a second set of instructions configured to determine, based on the number and identity of the desktops or applications running, a window stack comprising a logical representation of the desktops and applications within an ordered group whereby a user can selectively move a selected desktop or application within the window stack and to be displayed in either the first or second displays;

a third set of instructions responsive to a gesture made by the user to minimize a selected one of the first or second desktops or applications, **resulting in the selected one being displayed only one of the first and second displays**; and

wherein the selected one of the first or second desktops or applications is displayed in a maximized or minimized condition.

13. (**Currently Amended**) The device of claim 12, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that

a desktop or application appearing on that display can be maximized by a user gesture.

14. (Original) The device of claim 13, wherein the visual indicator has a wave shape.

15. (**Currently Amended**) The device of claim 12, wherein **a fourth** set of instructions are instructions to maximize a selected one of the first or second desktops or applications, resulting in the selected one being displayed on both of the first and second displays.

16. (**Cancelled**)

17. (**Currently Amended**) The device of clam 13, wherein the visual indicator appears on the applications or desktops running on both the first and second displays so that gestures made by the user to minimize a selected one of the first or second desktops or applications enables a user to minimize the applications or desktops appearing on both the first and second displays sequentially and repeatedly.

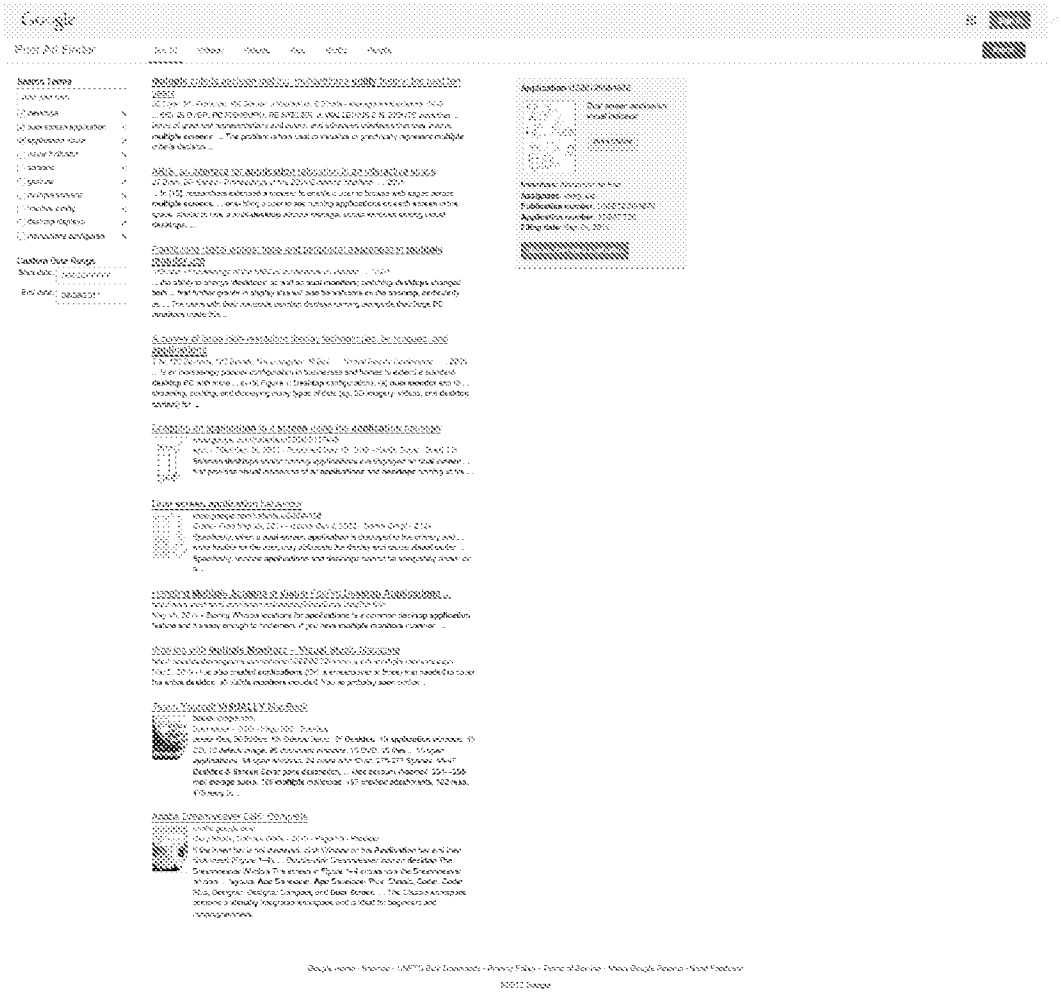
Claims 1-5, 7-9, 11-15, and 17 renumbered as 1-14 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREA LEGGETT whose telephone number is (571)270-7700. The examiner can normally be reached on Mon.-Fri. 8:00 am - 5:00 pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt M. Kim can be reached on (571)272-4182. 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.

/ANDREA LEGGETT/
Primary Examiner, Art Unit 2171



Ex. 1002, p. 86
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	(("6068121") or ("20100053089") or ("20110006971") or ("20110252317")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2015/03/18 14:58
L2	2	"US 20120084676"	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2015/03/18 15:44
L3	509	g06f 3/048	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2015/03/18 15:44
S1	64	((ALEXANDER) near2 ("DE PAZ")).INV.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2014/01/25 20:10
S3	5	(("20100245256") or ("20100245209") or ("20080062625") or ("20080165144") or ("20100085382")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/25 20:22
S4	2	(("20100182265") or ("20100298032")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/25 20:30
S5	1	("20110230178").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/25 20:40
S6	51	wave shape with indicator	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:32
S7	26	wave shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:36
S8	7	curve shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:38
S9	103	(curve or curvy) with shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR;	ADJ	OFF	2014/01/25 22:39

			DERWENT			
S10	7	(curve or curvy) shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:39
S11	4	loop shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:42
S12	3	loop shape with indicator	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:42
S13	1	("20100305843").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 18:24
S14	214	"715/761".CCLS.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2014/01/26 19:34
S15	31	(("20060082518") or ("20060206825") or ("20080122796") or ("20080062625") or ("20080165144") or ("20080174570") or ("20090119678") or ("20090254861") or ("20100064244") or ("20100081475") or ("20100079355") or ("20100085274") or ("20100085382") or ("20100088532") or ("20100100842") or ("20100182247") or ("20100182265") or ("20100223553") or ("20100245209") or ("20100245256") or ("20100298032") or ("20100321275") or ("20110230178") or ("20120081270") or ("20120081277") or ("20120081302") or ("20120081400") or ("20120084674") or ("20120084693") or ("20120084720") or ("20120084722")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 19:46
S16	10	(("7996045") or ("20020097194") or ("20100137027") or ("20100182251") or ("20100227651") or ("20100280676") or ("20110128241") or ("20120246374") or ("20120297304") or ("20120299554")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 19:51
S17	20	(("6919864") or ("7289083") or ("8228292") or ("8261213") or ("8289292") or ("20060211454") or ("20070198948") or ("20080059915") or ("20090235203") or ("20090262074") or ("20100088634") or ("20100245240") or ("20100304791") or ("20110175805") or ("20110187662") or ("20110209058") or ("20110210922") or ("20110239142") or ("20120005602") or ("20120280924") or ("2013012025~")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 19:53
S18	18	(("6331840") or ("6545669") or ("7839419") or ("8356258") or ("20030059003") or ("20050289478") or ("20060012951") or ("20060227106") or ("20080036743") or ("20090291760") or ("20090298548") or ("20100064536") or	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 19:56

		("20100162128") or ("20100164836") or ("20100211872") or ("20100262554") or ("20100313156") or ("20110025625")).PN. or ((2011/0074717) or (2011/0107272) or (2011/0157057) or (2012/0054401)).CCLS.				
S19	1	("20110230178").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/19 08:59
S20	1	("20100085382").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/19 14:30
S21	2	"US 20120084676"	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 15:54
S22	50	g06f 3/04883	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 15:59
S23	12	g06f 3/04883 and (minimiz$9 or maximiz$9)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 16:00
S24	16	g06f 3/0486	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 17:33
S25	1	dual (display or screen) same first application same second application same (maximiz$9 or minimiz$9)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 17:41
S26	1	dual (display or screen) (maximiz$9 or minimiz$9)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 17:50
S27	169	dual (display or screen) same (maximiz$9 or minimiz$9)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 17:51
S28	88	dual (display or screen) same (maximiz$9 or minimiz$9) and second (window or application)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 17:51
S29	4	(("20070285401") or ("20100081475") or ("20100060587") or ("20040095401")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/19 18:07
S30	1	("20110209097").PN.	US-PGPUB; USPAT;	OR	OFF	2014/08/19 19:08

			USOCR			
S31	1	("5835090").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/19 19:52
S32	1	("20090278806").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/21 14:29
S33	3	(("20080070593") or ("20110197200") or ("20080104227")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/22 12:49

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	91	((ALEXANDER) near2 ("DE PAZ")).INV.	US-PGPUB; USPAT; UPAD	ADJ	OFF	2015/03/18 16:18
L5	14	((dual screen or multi-screen or multi screen) with (maximiz$9 or minimiz$9)).clm.	US-PGPUB; USPAT; UPAD	ADJ	OFF	2015/03/18 16:21
L6	16	((dual screen or multi-screen or multi screen) same (maximiz$9 or minimiz$9)).clm.	US-PGPUB; USPAT; UPAD	ADJ	OFF	2015/03/18 16:22
L7	208	z124	US-PGPUB; USPAT; UPAD	ADJ	OFF	2015/03/18 16:23
L8	130	imerj.as.	US-PGPUB; USPAT; UPAD	ADJ	OFF	2015/03/18 16:24

3/18/2015 4:27:17 PM
C:\Users\aleggett\Documents\EAST\Workspaces\13-247728.wsp

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13247728	DE PAZ, ALEXANDER
	Examiner	**Art Unit**
	ANDREA LEGGETT	2171

✓	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	01/26/2014	08/21/2014	03/18/2015						
1	1	✓	✓	=						
2	2	✓	✓	=						
3	3	✓	✓	=						
4	4	✓	✓	=						
5	5	✓	✓	=						
	6	✓	✓	-						
6	7	✓	✓	=						
7	8	✓	✓	=						
8	9	✓	✓	=						
	10	✓	✓	-						
9	11	✓	✓	=						
10	12	✓	✓	=						
11	13	✓	✓	=						
12	14	✓	✓	=						
14	15	✓	✓	=						
	16	✓	✓	-						
13	17	✓	✓	=						

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
(Use as many sheets as necessary)				Art Unit	2171
				Examiner Name	LEGGETT, ANDREA C.
Sheet	1	of	1	Attorney Docket Number	6583-69

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	8068121	11/29/2011	Williamson	
	2	2010/0053089	03/04/2010	Kwok et al.	
	3	2011/0006971	01/13/2011	Ebey et al.	
	4	2011/0252317	10/13/2011	Keranen 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.
	5	"How to disable orientation change in Android?" stackoverflow.com, Oct. 18, 2009, 4 pages
	6	Official Action for U.S. Patent Application No. 13/247,359, mailed Aug. 06, 2014 (Attorney's Ref. No. 6583-44) 15 pages
	7	Official Action for U.S. Patent Application No. 13/247,823, mailed Sep. 09, 2014 (Attorney's Ref. No. 6583-49)
	8	Official Action for U.S. Patent Application No. 13/341,634, mailed Oct. 02, 2014 (Attorney's Ref. No. 6583-108) 18 pages
	9	Notice of Allowance for U.S. Patent Application No. 13/247,514, mailed Sep. 12, 2014 (Attorney's Ref. No. 6583-51) 19 pages

Examiner Signature	/Andrea Leggett/	Date Considered	03/18/2015

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.L./

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

BIB DATA SHEET

CONFIRMATION NO. 9244

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
13/247,728	09/28/2011	715	2171	6583-69

APPLICANTS

INVENTORS

Alexander de Paz, Burlington, CANADA;

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

This appln claims benefit of 61/539,884 09/27/2011
and claims benefit of 61/458,150 11/17/2010
and claims benefit of 61/389,000 10/01/2010
and claims benefit of 61/389,117 10/01/2010
and claims benefit of 61/389,087 10/01/2010

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ****

10/13/2011

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /ANDREA C. LEGGETT/ Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		CANADA	25	14 ~~17~~	3

ADDRESS

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

TITLE

DUAL SCREEN APPLICATION VISUAL INDICATOR

FILING FEE RECEIVED		
1250	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13247728	DE PAZ, ALEXANDER
	Examiner	**Art Unit**
	ANDREA LEGGETT	2171

CPC								
Symbol							**Type**	**Version**
G06F		1	/	1616			F	2013-01-01
G06F		3	/	048			I	2013-01-01
G06F		1	/	1641			I	2013-01-01
G06F		3	/	0481			I	2013-01-01
G06F		3	/	0483			I	2013-01-01
G06F		3	/	04883			I	2013-01-01
G06F		3	/	1423			A	2013-01-01
G06F		3	/	0488			I	2013-01-01
G06F		3	/	04886			I	2013-01-01
G06F		2200	/	1614			A	2013-01-01
G06F		1	/	1677			I	2013-01-01
G06F		3	/	017			I	2013-01-01
G06F		3	/	0484			I	2013-01-01
G06F		3	/	04842			I	2013-01-01
G06F		1	/	16			I	2013-01-01

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	14	
/ANDREA LEGGETT/ Primary Examiner.Art Unit 2171	3-18-2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13247728	DE PAZ, ALEXANDER
	Examiner	**Art Unit**
	ANDREA LEGGETT	2171

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION	
CLASS	SUBCLASS	CLAIMED	NON-CLAIMED

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

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	14	
/ANDREA LEGGETT/ Primary Examiner.Art Unit 2171	3-18-2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13247728	DE PAZ, ALEXANDER
	Examiner	**Art Unit**
	ANDREA LEGGETT	2171

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	13	17												
2	2														
3	3														
4	4														
5	5														
	6														
6	7														
7	8														
8	9														
	10														
9	11														
10	12														
11	13														
12	14														
14	15														
	16														

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 14	
/ANDREA LEGGETT/ Primary Examiner.Art Unit 2171 (Primary Examiner)	3-18-2015 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1A

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13247728	DE PAZ, ALEXANDER
	Examiner	Art Unit
	ANDREA LEGGETT	2171

CPC- SEARCHED		
Symbol	Date	Examiner
G06F 3/04883	8/21/2014	A.L.
G06F 3/0486	8/21/2014	A.L.
G06F 3/048	3/18/2015	A.L.

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
715	761	1/26/2014	A.L.

SEARCH NOTES		
Search Notes	Date	Examiner
East Search	1/26/2014	A.L.
Inventor Name Search (EAST)	1/26/2014	A.L.
EAST Search	8/21/2014	A.L.
Class/Subclass with Text (EAST)	8/21/2014	A.L.
EAST Search	3/18/2015	A.L.
NPL Search (see attached)	3/18/2015	A.L.

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
370	255,338	5/24/13	MA
	USPGPUB Text Search - see Interference printout	3/18/2015	A.L.

	/ANDREA LEGGETT/ Primary Examiner.Art Unit 2171

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.: 13/247,728	)	Confirmation No.: 9244
Applicant: Alexander de Paz	)	TC/A.U.: 2171
Filed: September 28, 2011	)	Examiner: Leggett, Andrea C.
Docket No.: 6583-69	)	**RESPONSE TO NON-FINAL OFFICE ACTION**
FOR: "DUAL SCREEN APPLICATION VISUAL INDICATOR"	)	***Filed Electronically***

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 August 27, 2014. While Applicant believes no 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 7 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 of displaying a plurality of desktops and/or applications, each having at least one window, on a multi-screen device, comprising:

receiving, by a processor, a first input that represents an instruction to reveal one of a desktop or application on a first display of the multi-screen device;

selecting, by [[a]]the processor, a first desktop or application to display on the first display;

receiving, by [[a]]the processor, a second input that represents an instruction to reveal one of a desktop or application on a second display of the multi-screen device;

selecting, by [[a]]the processor, a second desktop or application to display on the second display;

displaying, by [[a]]the processor, the selected first and second desktops or applications on the first and second displays;

receiving, by [[a]]the processor, a third input that represents an instruction to maximize or minimize a selected one of the first or second desktops or applications; and

displaying, by [[a]]the processor, the selected one of the first or second desktops or applications in a maximized or minimized condition.

2. (Original) The method of claim 1, wherein at least one of the first, second, and third inputs is achieved by at least a user input gesture.

3. (Original) The method of claim 1, wherein the third input is a user gesture comprising at least one of a tap or long hold gesture.

Ex. 1002, p. 99
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

4. (Original) The method of claim 1, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that display can be maximized or minimized by a user gesture.

5. (Previously Presented) The method of claim 4, wherein the visual indicator has a wave shape.

6. (Original) The method of claim 1, wherein the third input is an instruction to maximize a selected one of the first or second desktops or applications, resulting in the selected one being displayed on both of the first and second displays.

7. (Currently Amended) The method of claim 1, wherein the third input is an instruction to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only ~~on either~~ one of the first and second displays.

8. (Original) A non-transitory computer-readable medium having stored thereon instructions that cause a computing system to execute a method, the instructions comprising:

instructions configured to receive a first predetermined input that represents an instruction to determine and reveal a first desktop or application on a first display of the multi-screen device;

instructions configured to receive a second predetermined input that represents an instruction to determine and reveal a second desktop or application on a second display of the multi-screen device;

instructions configured to respond to the first and second predetermined inputs with outputs that cause the first desktop or application to be displayed on the first display and cause the second desktop or application to be displayed on the second display;

Ex. 1002, p. 100
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

instructions configured to receive a third predetermined input that represents an instruction to maximize or minimize a selected one of the first or second desktops or applications; and

instructions configured to respond to the third predetermined input that causes displaying of the selected one of the first or second desktops or applications in a maximized or minimized condition.

9. (Original) The computer-readable medium of claim 8, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that display can be maximized or minimized by a user gesture according to the instructions configured to receive a third predetermined input.

10. (Original) The computer-readable medium of claim 8 wherein the third predetermined input is an instruction to maximize a selected one of the first or second desktops or applications, resulting in the selected one being displayed on both of the first and second displays according to the instructions configured to respond to the third predetermined input.

11. (Currently Amended) The computer-readable medium of claim 8 wherein the third predetermined input is an instruction to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only ~~on either~~one of the first and second displays according to the instructions configured to respond to the third predetermined input.

12. (Previously Presented) A multi-screen user device, comprising:

a first display including a first display area;

a second display including a second display area;

a first user input gesture area of the first display;

a second user input gesture area of the second display, wherein the first and second user input gesture areas are configured to accept input from a user;

Ex. 1002, p. 101
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

a non-transitory computer-readable medium having instructions stored thereon that include:

a first set of instructions configured to determine a number and identity of desktops or applications selected to be run by a user;

a second set of instructions configured to determine, based on the number and identity of the desktops or applications running, a window stack comprising a logical representation of the desktops and applications within an ordered group whereby a user can selectively move a selected desktop or application within the window stack and to be displayed in either the first or second displays;

a third set of instructions responsive to a gesture made by the user to maximize or minimize a selected one of the first or second desktops or applications; and

wherein the selected one of the first or second desktops or applications is displayed in a maximized or minimized condition.

13. (Original) The device of claim 12, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that display can be maximized or minimized by a user gesture.

14. (Original) The device of claim 13, wherein the visual indicator has a wave shape.

15. (Original) The device of claim 12, wherein the third set of instructions are instructions to maximize a selected one of the first or second desktops or applications, resulting in the selected one being displayed on both of the first and second displays.

16. (Currently Amended) The device of claim 12, wherein the third set of instructions are instructions to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only ~~on either~~one of the first and second displays.

Ex. 1002, p. 102
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

17. (Currently Amended) The device of claim 13, wherein the visual indicator appears on the applications or desktops running on both the first and second displays so that gestures made by the user to maximize or minimize a selected one of the first or second desktops or applications enables a user to maximize and minimize the applications or desktops appearing on both the first and second displays sequentially and repeatedly.

Ex. 1002, p. 103
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

REMARKS

Examiner Interview

The undersigned applicant's representative would like to thank the Examiner for her time discussing this application on October 30, 2014. In particular, several differences between the pending claims and the Clark reference were discussed. More specifically, the claimed term "display" being a portion of one or more screens (See, Application, ¶0019). The Clark reference is generally directed towards "...a method for use in controlling placement of graphical objects on a *GUI operating system desktop*." (Clark, col. 2, lines 1-3) and utilizes the term, "display" to mean "show" ("If the position of the object is acceptable, the state of the *display* is changed from invisible to visible and the object is displayed." (Clark, col. 3. lines 15-17).

Also discussed was Clark's "bird's eye view." Applicant's representative over-simplified Clark's "bird's eye view" as being only an image of the enhanced desktop. However, Applicant's representative was correct in his statement that Clark's "bird's eye view" is not a desktop. In particular as the only feature provided by the "bird's eye view" is, "a graphical symbol for each object resident on the enhanced desktop"(Clark, col. 4, lines 41-42) and "movement of the object relative to the enhanced desktop by moving the symbol relative to the graphical representation." (Clark, col. 4, lines 46-49).

While no conclusion was reached regarding allowability, the Examiner agreed to re-review the references.

Again, the Examiner's time spent discussing this application is sincerely appreciated.

Status of the Claims

In the Office Action dated August 27, 2014, claims 1-17 were pending. Claims 1, 7, 11, 16, and 17 are amended. No new claims have been added or cancelled. Applicants respectfully request reconsideration of this application as amended.

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

Claims 1-2, 4, 6-13, and 15-17 stand rejected under 35 U.S.C. § 102(b) as being unpatentable over U.S. Patent 5,835,090 to Clark et al ("Clark").

This rejection is respectfully traversed. "A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described,

Ex. 1002, p. 104
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

in a single prior art reference." Verdegaal Bros. v. Union Oil Co. of California, 814 F.2d 628, 631 (Fed. Cir. 1987) (emphasis added). Further, "[t]he identical invention must be shown in as complete detail as is contained in the claim." Richardson v. Suzuki Motor Co., 868 F.2d 1226, 1236 (Fed. Cir. 1989). Furthermore, each limitation of every claim must be given weight in determining patentability. See In re Wilson, 424 F.2d 1382, 1385, 165 USPQ 494, 496 (CCPA 1970) ("All words in a claim must be considered in judging the patentability of that claim against the prior art" (emphasis added); MPEP § 2106 ("USPTO personnel should begin claim analysis by identifying and evaluating each claim limitation" (emphasis added)). Clark fails to disclose features required by claims 1-4, 6-13, and 15-17.

Independent Claims 1, 8 and 12:

Amended claim 1 recites, *inter alia*:

> receiving, by a processor, a first input that represents an instruction to reveal one of a desktop or application on a first display of the multi-screen device;

The Examiner states that the above limitation is disclosed by Clark. Applicant respectfully disagrees and traverses the rejection.

Applicant submits that what Clark discloses is the presentation and management of windows on at least one computer monitor (a physical display) and not within a "display" as claimed by Applicant's claim 1. A "display," as claimed, is defined by the instant application:

> 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. (Application, as-filed, ¶0019).

In contrast, Clark is cited, specifically:

Ex. 1002, p. 105
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

> In a preferred implementation, the program manager (20) manages multi-pass window creation by allowing a graphical user interface operating system (16) to fill in a window structure in a hidden form and thereafter analyzing the window's coordinates relative to selected display criteria such as avoiding monitor splits. (Clark, Abstract).

However, the Clark reference fails to teach that which is claimed. While Clark may disclose filling in a window structure in a hidden form and then avoiding monitor splits, Clark is silent as to, "reveal one of a desktop or application on a first display," as required by claim 1. The claimed, "first display" being, for example, "a separate *logical* display." Therefore, while Clark may address where a window is presented on a monitor, it is only with the benefit of Applicant's claim 1, that a desktop or application is presented within a claimed "display."

Similarly, the cited reference to Clark's "bird's eye view" disclosed in column 19, lines 60-65 is silent as to the claimed display of a desktop or application. The content of Clark's "bird's eye view" is for, "indicating the positions of windows or other objects on the desktop." (Clark, col. 19, lines 59-61). The distinction between Clark and Applicant's claim 1 is more fully appreciated upon consideration that:

> Amended claim 1 further recites, *inter alia*:
>
> receiving, by the processor, a third input that represents an instruction to maximize or minimize a selected one of the first or second desktops or applications;
>
> displaying, by the processor, the selected one of the first or second desktops or applications in a maximized or minimized condition.

The Examiner cites, in part, Clark's Fig. 6. However, the claimed "displaying... in a maximized or minimized condition," and "displaying... the selected first and second desktops or applications ***on the first and second displays***," is not found in Clark. Clark is directed towards windows on desktops and not the minimizing or maximizing of the content therein and discloses, a window being minimized per default parameters (element 120), a window is maximized per default parameters (element 128), or a new display message is created according to user preferences (element 118). (See Clark, Fig. 6). Furthermore, Clark's "bird's eye view" comprises "graphical symbols" for positioning the

Ex. 1002, p. 106
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

position of their respective object. (Clark, col. 4, lines 42-49). Clark is silent to any maximization or minimization of an application or desktop, including the "bird's eye view," within any "display," as claimed, or assuming *arguendo*, any equivalent to a claimed display.

Additionally, Clark is silent to a processor that is operable to perform both of the claimed, "...receiving a first/second input [...] to **reveal** one of a desktop or application on a first/second display of the multi-screen device." Clark may teach the, "fill[ing] in [of] a window structure in a hidden form and thereafter analyzing the window's coordinates relative to selected display criteria such as avoiding monitor splits." However, such a "hidden form" and "display...[to] avoid monitor splits" is different from the claimed "reveal" operation, whereby one of a number of windows is brought to the top of the stack (*see* Application, as filed, ¶158), would be limited to one particular first display 510 or second display 560 as Jones is silent to any other operation of the separable devices.

As Clark fails to teach each claimed limitation, Applicant submits that claim 1 is allowable and respectfully requests withdrawal of the rejection thereto. In addition, independent claims 8 and 12 recite a similar limitation as that of claim 1, as is similarly rejected. Accordingly, Applicant submits that claims 8 and 12 are allowable over the art and respectfully requests withdrawal of the rejection and the allowance thereof.

Dependent claims

In addition to being allowable for reciting additional limitations of the allowable independent claims, additional reasons are believed to exist for the allowability of the dependent claims.

Claims 5 and 14 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Jones in view of U.S. Patent Publication 2010/0305843 to Yan et al. ("Yan").

Applicant respectfully disagrees. In particular, claims 5 and 14 recite, "wherein the visual indicator has a wave shape. Yan is relied upon to provide the aforementioned limitation as such a teaching is absent in Jones.

However, Yan discloses a representation of a path which may have an obstacle, (Yan, Fig. 2C, "curved shape" element 240), and thereby indicate to a user to around

Ex. 1002, p. 107
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

the obstacle. Rather than teaching the claimed wave shape, Yan teaches a path whereby happenstance dictates an indicator of a path.

Accordingly, Applicant submits that claims 5 and 14 are allowable and respectfully requests withdrawal of the rejection and the allowance thereof.

Ex. 1002, p. 108
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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: November 25, 2014

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

Ex. 1002, p. 109
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Electronic Acknowledgement Receipt

EFS ID:	20791632
Application Number:	13247728
International Application Number:	
Confirmation Number:	9244
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Customer Number:	111285
Filer:	Scott Weitzel/Melissa Reno
Filer Authorized By:	Scott Weitzel
Attorney Docket Number:	6583-69
Receipt Date:	25-NOV-2014
Filing Date:	28-SEP-2011
Time Stamp:	10:47:36
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		AMEND_02.pdf	142835 08137d83aa5844b1aa33cb092506848f9d4c97f2	yes	12

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	6
	Applicant Arguments/Remarks Made in an Amendment	7	12
Warnings:			
Information:			
	Total Files Size (in bytes):	142835	

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.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. 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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/247,728	Filing Date 09/28/2011	☐ 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)		
	11/25/2014	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
AMENDMENT	Total (37 CFR 1.16(i))	* 17	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
/NICOLE LOVE-HENSLEY/

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.**

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/247,728	09/28/2011	Alexander de Paz	6583-69	9244

111285 7590 11/04/2014

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

EXAMINER	
LEGGETT, ANDREA C.	
ART UNIT	PAPER NUMBER
2171	

NOTIFICATION DATE	DELIVERY MODE
11/04/2014	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
edocket@sheridanross.com

Applicant-Initiated Interview Summary	Application No.	Applicant(s)	
	13/247,728	DE PAZ, ALEXANDER	
	Examiner	Art Unit	
	ANDREA LEGGETT	2171	

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

(1) *ANDREA LEGGETT*. (3)_____.

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

Date of Interview: *30 October 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: *Clark*.

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...)

Applicant discussed the invention and the differences between the invention and the prior art. While no agreement was reached, Examiner agreed to consider Applicant's arguments when taking a further look through 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

/ANDREA LEGGETT/ Primary Examiner, Art Unit 2171	

Ex. 1002, p. 114
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
(Use as many sheets as necessary)				Art Unit	2171
				Examiner Name	LEGGETT, ANDREA C.
Sheet	1	of	1	Attorney Docket Number	6583-69

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	8068121	11/29/2011	Williamson	
	2	2010/0053089	03/04/2010	Kwok et al.	
	3	2011/0006971	01/13/2011	Ebey et al.	
	4	2011/0252317	10/13/2011	Keranen 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.
	5	"How to disable orientation change in Android?" stackoverflow.com, Oct. 18, 2009, 4 pages
	6	Official Action for U.S. Patent Application No. 13/247,359, mailed Aug. 06, 2014 (Attorney's Ref. No. 6583-44) 15 pages
	7	Official Action for U.S. Patent Application No. 13/247,823, mailed Sep. 09, 2014 (Attorney's Ref. No. 6583-49)
	8	Official Action for U.S. Patent Application No. 13/341,634, mailed Oct. 02, 2014 (Attorney's Ref. No. 6583-108) 18 pages
	9	Notice of Allowance for U.S. Patent Application No. 13/247,514, mailed Sep. 12, 2014 (Attorney's Ref. No. 6583-51) 19 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 Patent Application Fee Transmittal

Application Number:	13247728
Filing Date:	28-Sep-2011
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Filer:	Douglas W. Swartz/Robert Roe-Pachirat
Attorney Docket Number:	6583-69

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:	20367904
Application Number:	13247728
International Application Number:	
Confirmation Number:	9244
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Customer Number:	111285
Filer:	Douglas W. Swartz/Robert Roe-Pachirat
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-69
Receipt Date:	08-OCT-2014
Filing Date:	28-SEP-2011
Time Stamp:	18:28:28
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	5212
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 1.17 (Patent application and reexamination processing fees)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		6583-69_IDS_06.pdf	160313 b9d8d4902b9394cc97e4962d901122a95c401c53	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:					
2	Non Patent Literature	How_to_disable_orientation_change_in_Android.pdf	171529 715a0763820e3fd1ba7382329f0c11a7c2a8a277	no	4
Warnings:					
Information:					
3	Non Patent Literature	6583-44_OA_08-06-2014.pdf	527700 0da05e8b37208881d8794bc3a3076319635ecfc5	no	15
Warnings:					
Information:					
4	Non Patent Literature	6583-49_OA_09-09-2014.pdf	735505 0a7ac442ac17791382833b9717bda4a0aa184e14	no	18
Warnings:					
Information:					
5	Non Patent Literature	6583-108_OA_10-02-2014.pdf	850505 2b06f22c9f656eca7fc25c4f2529e0e7ca3507aa	no	18
Warnings:					
Information:					
6	Non Patent Literature	6583-51_NOA_09-12-2014.pdf	896407 a06888def9b5fcb15a537dfb26000ac1f402b58e	no	19
Warnings:					
Information:					
7	Fee Worksheet (SB06)	fee-info.pdf	30531 3ec97e0b313aa1902bdfecf46f1cca4d81d04c71	no	2
Warnings:					
Information:					

Total Files Size (in bytes):	3372490

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: 2171
Alexander de Paz	)	Confirmation No.: 9244
Serial No.: 13/247,728	)	Examiner: LEGGETT, ANDREA C.
Filed: September 28, 2011	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-69	)	
Entitled: "Dual Screen Application Visual Indicator"	)	*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

Ex. 1002, p. 122
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

Ex. 1002, p. 123
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

By: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37,739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: October 08, 2014

Ex. 1002, p. 124
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.
13/247,728	09/28/2011	Alexander de Paz	6583-69	9244

111285 7590 08/27/2014

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

EXAMINER
LEGGETT, ANDREA C.

ART UNIT	PAPER NUMBER
2171	

NOTIFICATION DATE	DELIVERY MODE
08/27/2014	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. 13/247,728	Applicant(s) DE PAZ, ALEXANDER	
	Examiner ANDREA LEGGETT	Art Unit 2171	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 *4-30-14*.

☐ 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) *1-17* 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) *1-17* 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 _____ 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 *6-19-14*.

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

4) ☐ Other: _____.

DETAILED ACTION

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

This action is in response to the amendment filed on April 30, 2014. Claims 5 and 12 are amended and claims 1-17 are pending and have been considered below.

Claim Rejections - 35 USC § 101

The rejection of claims 12-17 has been withdrawn pursuant to Applicant amendment.

Claim Rejections - 35 USC § 102

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

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- 2, 4, 6-13, and 15-17 are** rejected under pre-AIA 35 U.S.C. 102(**b**) as being anticipated by **Clark et al. (U.S. Patent No. 5,835,090)**.

With regard to claim 1, Clark teaches a method of displaying a plurality of desktops and/or applications, each having at least one window, on a multi-screen device **(Fig. 5; [abstract] A desktop manager application (20) manages graphical object creation, repositioning, resizing and related object placement functions in the context of a multi-monitor or other enhanced desktop environment)**, comprising:

receiving, by a processor, a first input that represents an instruction to reveal one of a desktop or application on a first display of the multi-screen device **([abstract] in a preferred implementation, the program manager (20) manages multi-pass window creation by allowing a graphical user interface operating system (16) to fill in a window structure in a hidden form and thereafter analyzing the window's coordinates relative to selected display criteria such as avoiding monitor splits; [col. 19, lines 60-65])**;

selecting, by a processor, a first desktop or application to display on the first display **(Fig. 5; Fig. 3, 70; [abstract]; [col. 19, lines 60-65])**;

receiving, by a processor, a second input that represents an instruction to reveal one of a desktop or application on a second display of the multi-screen device **(Fig. 5; [col. 2, lines 40-43] an application may create a window at a first location and immediately move the window to a second location such that the window appears to be created at the second location to a user; [col. 3, lines 34-37] It will be appreciated, however, that the user may desire to deactivate the "Single Monitor Windows" function to allow multi-monitor**

window displays, e.g., display across the entire enhanced desktop. The desktop manager can also be programmed to control placement of secondary objects (i.e., objects created within other objects) such as child or document windows as well as parent or primary objects);

selecting, by a processor, a second desktop or application to display on the second display **(Fig. 5; Fig. 3, 70; [abstract]; [col. 19, lines 60-65]; [col. 3, lines 34-37])**;

displaying, by a processor, the selected first and second desktops or applications on the first and second displays device **(Fig. 5; [abstract])**;

receiving, by a processor, a third input that represents an instruction to maximize or minimize a selected one of the first or second desktops or applications **(Fig. 6; [col. 4, lines 66- col. 67, line 10]; [col. 21, lines 19-23] Otherwise, the window is minimized (120) as specified by the operating system or application, i.e., according to the default parameters, and the minimized window or icon is displayed (122) normally; [col. 21, lines 28-32] In this regard, the user may prefer to maximize a window, for example, to the full enhanced desktop, to the full display area of its current monitor, or to the monitor(s) containing the window corners)**;

displaying, by a processor, the selected one of the first or second desktops or applications in a maximized or minimized condition **(Fig. 6; [col. 4, lines 66- col. 67, line 10]; [col. 21, lines 19-23] Otherwise, the window is minimized (120) as specified by the operating system or application, i.e.,**

according to the default parameters, and the minimized window or icon is displayed (122) normally; [col. 21, lines 28-32] In this regard, the user may prefer to maximize a window, for example, to the full enhanced desktop, to the full display area of its current monitor, or to the monitor(s) containing the window corners)

With regard to claim 2, the limitations are addressed above and Clark teaches wherein at least one of the first, second, and third inputs is achieved by at least a user input gesture **([col. 3, lines 34-37] It will be appreciated, however, that the user may desire to deactivate the "Single Monitor Windows" function to allow multi-monitor window displays, e.g., display across the entire enhanced desktop. The desktop manager can also be programmed to control placement of secondary objects (i.e., objects created within other objects) such as child or document windows as well as parent or primary objects; [col. 21, lines 28-32] In this regard, the user may prefer to maximize a window, for example, to the full enhanced desktop, to the full display area of its current monitor, or to the monitor(s) containing the window corners).**

With regard to claim 4, the limitations are addressed above and Clark teaches wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that

display can be maximized or minimized by a user gesture **([col. 4, lines 1-6] for drag and drop window repositioning, the step of monitoring cursor events may involve intercepting a mouse down message event and determining whether the event occurred when the cursor was positioned on a window title bar, thereby indicating that repositioning has been initiated; [col. 3, lines 34-37]; [col. 21, lines 28-32])**.

With regard to claim 6, the limitations are addressed above and Clark teaches wherein the third input is an instruction to maximize a selected one of the first or second desktops or applications, resulting in the selected one being displayed on both of the first and second displays **([col. 3, lines 34-37] It will be appreciated, however, that the user may desire to deactivate the "Single Monitor Windows" function to allow multi-monitor window displays, e.g., display across the entire enhanced desktop. The desktop manager can also be programmed to control placement of secondary objects (i.e., objects created within other objects) such as child or document windows as well as parent or primary objects; [col. 21, lines 28-32] In this regard, the user may prefer to maximize a window, for example, to the full enhanced desktop, to the full display area of its current monitor, or to the monitor(s) containing the window corners).**

With regard to claim 7, the limitations are addressed above and Clark teaches wherein the third input is an instruction to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only on either the first and second displays **([col. 3, lines 34-37] It will be appreciated, however, that the user may desire to deactivate the "Single Monitor Windows" function to allow multi-monitor window displays, e.g., display across the entire enhanced desktop. The desktop manager can also be programmed to control placement of secondary objects (i.e., objects created within other objects) such as child or document windows as well as parent or primary objects; [col. 21, lines 19-23] Otherwise, the window is minimized (120) as specified by the operating system or application, i.e., according to the default parameters, and the minimized window or icon is displayed (122) normally).**

With regard to claim 8, Clark teaches a non-transitory computer-readable medium having stored thereon instructions that cause a computing system to execute a method **(Fig. 1)**, the instructions comprising:

instructions configured to receive a first predetermined input that represents an instruction to determine and reveal a first desktop or application on a first display of the multi-screen device **([abstract] in a preferred implementation, the program manager (20) manages multi-pass window creation by allowing a graphical user interface operating system (16) to fill**

in a window structure in a hidden form and thereafter analyzing the window's coordinates relative to selected display criteria such as avoiding monitor splits; [col. 19, lines 60-65]);

instructions configured to receive a second predetermined input that represents an instruction to determine and reveal a second desktop or application on a second display of the multi-screen device **(Fig. 5; [col. 2, lines 40-43] an application may create a window at a first location and immediately move the window to a second location such that the window appears to be created at the second location to a user; [col. 3, lines 34-37] It will be appreciated, however, that the user may desire to deactivate the "Single Monitor Windows" function to allow multi-monitor window displays, e.g., display across the entire enhanced desktop. The desktop manager can also be programmed to control placement of secondary objects (i.e., objects created within other objects) such as child or document windows as well as parent or primary objects)**;

instructions configured to respond to the first and second predetermined inputs with outputs that cause the first desktop or application to be displayed on the first display **(Fig. 5; Fig. 3, 70; [abstract]; [col. 19, lines 60-65])** and cause the second desktop or application to be displayed on the second display **(Fig. 5; Fig. 3, 70; [abstract]; [col. 19, lines 60-65]; [col. 3, lines 34-37])**;

instructions configured to receive a third predetermined input that represents an instruction to maximize or minimize a selected one of the first or

second desktops or applications **(Fig. 6; [col. 4, lines 66- col. 67, line 10]; [col. 21, lines 19-23] Otherwise, the window is minimized (120) as specified by the operating system or application, i.e., according to the default parameters, and the minimized window or icon is displayed (122) normally; [col. 21, lines 28-32] In this regard, the user may prefer to maximize a window, for example, to the full enhanced desktop, to the full display area of its current monitor, or to the monitor(s) containing the window corners)**; and

instructions configured to respond to the third predetermined input that causes displaying of the selected one of the first or second desktops or applications in a maximized or minimized condition **(Fig. 6; [col. 4, lines 66- col. 67, line 10]; [col. 21, lines 19-23] Otherwise, the window is minimized (120) as specified by the operating system or application, i.e., according to the default parameters, and the minimized window or icon is displayed (122) normally; [col. 21, lines 28-32] In this regard, the user may prefer to maximize a window, for example, to the full enhanced desktop, to the full display area of its current monitor, or to the monitor(s) containing the window corners)**.

With regard to claim 9, the medium claim corresponds to the method claim 4, respectively, and therefore is rejected with the same rationale.

With regard to claim 10, the medium claim corresponds to the method claim 6, respectively, and therefore is rejected with the same rationale.

With regard to claim 11, the medium claim corresponds to the method claim 7, respectively, and therefore is rejected with the same rationale.

With regard to claim 12, Jones teaches a multi-screen user device **(Fig. 5; [abstract] A desktop manager application (20) manages graphical object creation, repositioning, resizing and related object placement functions in the context of a multi-monitor or other enhanced desktop environment)**, comprising:

a first display including a first display area **(Fig. 5; Fig. 1, 12)**;

a second display including a second display area **(Fig. 5; Fig. 1, 14)**;

a first user input gesture area of the first display **([abstract] in a preferred implementation, the program manager (20) manages multi-pass window creation by allowing a graphical user interface operating system (16) to fill in a window structure in a hidden form and thereafter analyzing the window's coordinates relative to selected display criteria such as avoiding monitor splits; [col. 19, lines 60-65])**;

a second user input gesture area of the second display, wherein the first and second user input gesture areas are configured to accept input from a user **(Fig. 5; [col. 2, lines 40-43] an application may create a window at a first**

location and immediately move the window to a second location such that the window appears to be created at the second location to a user; [col. 3, lines 34-37] It will be appreciated, however, that the user may desire to deactivate the "Single Monitor Windows" function to allow multi-monitor window displays, e.g., display across the entire enhanced desktop. The desktop manager can also be programmed to control placement of secondary objects (i.e., objects created within other objects) such as child or document windows as well as parent or primary objects);

a computer-readable medium having instructions stored thereon that include:

a first set of instructions configured to determine a number and identity of desktops or applications selected to be run by a user **([abstract])**;

a second set of instructions configured to determine, based on the number and identity of the desktops or applications running, a window stack comprising a logical representation of the desktops and applications within an ordered group whereby a user can selectively move a selected desktop or application within the window stack and to be displayed in either the first or second displays **([col. 4, lines 1-6] for drag and drop window repositioning, the step of monitoring cursor events may involve intercepting a mouse down message event and determining whether the event occurred when the cursor was positioned on a window title bar, thereby indicating that repositioning has been initiated; [col. 3, lines 34-37]; [col. 21, lines 28-32])**;

a third set of instructions responsive to a gesture made by the user to maximize or minimize a selected one of the first or second desktops or applications **(Fig. 6; [col. 4, lines 66- col. 67, line 10]; [col. 21, lines 19-23] Otherwise, the window is minimized (120) as specified by the operating system or application, i.e., according to the default parameters, and the minimized window or icon is displayed (122) normally; [col. 21, lines 28-32] In this regard, the user may prefer to maximize a window, for example, to the full enhanced desktop, to the full display area of its current monitor, or to the monitor(s) containing the window corners)**; and

wherein the selected one of the first or second desktops or applications is displayed in a maximized or minimized condition **(Fig. 6; [col. 4, lines 66- col. 67, line 10]; [col. 21, lines 19-23] Otherwise, the window is minimized (120) as specified by the operating system or application, i.e., according to the default parameters, and the minimized window or icon is displayed (122) normally; [col. 21, lines 28-32] In this regard, the user may prefer to maximize a window, for example, to the full enhanced desktop, to the full display area of its current monitor, or to the monitor(s) containing the window corners)**.

With regard to claim 13, the device claim corresponds to the method claim 4, respectively, and therefore is rejected with the same rationale.

With regard to claim 15, the device claim corresponds to the method claim 6, respectively, and therefore is rejected with the same rationale.

With regard to claim 16, the device claim corresponds to the method claim 11, respectively, and therefore is rejected with the same rationale.

With regard to claim 17, the limitations are addressed above and Clark teaches wherein the visual indicator appears on the applications or desktops running on both the first and second displays so that gestures made by the user to maximize or minimize a selected one of the first or second desktops or applications enables a user to maximize and minimize the applications or desktops appearing on both the first and second displays sequentially and repeatedly **([col. 4, lines 1-6] for drag and drop window repositioning, the step of monitoring cursor events may involve intercepting a mouse down message event and determining whether the event occurred when the cursor was positioned on a window title bar, thereby indicating that repositioning has been initiated; [col. 3, lines 34-37]; [col. 21, lines 28-32])**

Claim Rejections - 35 USC § 103

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

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

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

Claim **3 is** rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Clark et al. (U.S. Patent No. 5,835,090)** in view of **Jones et al. (U.S. 2011/0230178)**.

With regard to claim 3, the limitations are addressed above and Clark teaches wherein the third input is a user gesture **([col. 3, lines 34-37] It will be appreciated, however, that the user may desire to deactivate the "Single Monitor Windows" function to allow multi-monitor window displays, e.g., display across the entire enhanced desktop. The desktop manager can also be programmed to control placement of secondary objects (i.e., objects created within other objects) such as child or document windows as well as parent or primary objects; ; [col. 21, lines 28-32] In this regard, the user may prefer to maximize a window, for example, to the full**

enhanced desktop, to the full display area of its current monitor, or to the monitor(s) containing the window corners). However, Clark does not teach:

- *comprising at least one of a tap or long hold gesture*

Jones teaches a mobile communication device having multiple interchangeable display devices [abstract] configured to accept user input, wherein the third input is a user gesture comprising at least one of a tap or long hold gesture **([0089] A user can control browsing of the gallery by providing touch input (tap input…; [0068] a user can select…by tapping an icon displayed…; [0059]; [0066]).** Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains to have modified the multi-screen device taught by Clark, to have included the user gestures taught by Jones, to have achieved a system and method of displaying content interchangeably between first and second displays of a multi-screen device

Claims **5 and 14 are** rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Clark et al. (U.S. Patent No. 5,835,090)** in view of **Yan et al. (U.S. 2010/0305843)**.

With regard to claim 5, the limitations are addressed above. However, Clark does not teach:

- *wherein the visual indicator has a wave shape*

Yan teaches a system and method of presenting a graphical indicator on a user interface of a mobile device [abstract], wherein the visual indicator has a wave shape **([0024]; [0029] – [0030] curved shape of arrow 240; [claim 5] an indicator having a curved shape)**. Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains to have modified the indicator taught by Jones, to have included the curved shape indicator taught by Yan, to have achieved a system and method of displaying a graphical indicator interchangeably between first and second displays of a multi-screen device.

With regard to claim 14, the device claim corresponds to the method claim 5, respectively, and therefore is rejected with the same rationale.

Response to Arguments

Applicant's arguments filed 4-30-14 with respect to the rejection(s) of claim(s) 1-17 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Clark et al. (U.S. Patent No. 5,835,090).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREA LEGGETT whose telephone number is (571)270-7700. The examiner can normally be reached on Mon.-Fri. 8:00 am - 5:00 pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt M. Kim can be reached on (571)272-4182. 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.

/ANDREA LEGGETT/
Primary Examiner, Art Unit 2171
August 21, 2014

Notice of References Cited	Application/Control No. 13/247,728	Applicant(s)/Patent Under Reexamination DE PAZ, ALEXANDER	
	Examiner ANDREA LEGGETT	Art Unit 2171	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,835,090	11-1998	Clark et al.	715/764
	B	US-			
	C	US-			
	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.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13247728	DE PAZ, ALEXANDER
	Examiner	Art Unit
	ANDREA LEGGETT	2171

CPC- SEARCHED		
Symbol	Date	Examiner
G06F 3/04883	8/21/2014	A.L.
G06F 3/0486	8/21/2014	A.L.

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
715	761	1/26/2014	A.L.

SEARCH NOTES		
Search Notes	Date	Examiner
East Search	1/26/2014	A.L.
Inventor Name Search (EAST)	1/26/2014	A.L.
EAST Search	8/21/2014	A.L.
Class/Subclass with Text (EAST)	8/21/2014	A.L.

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
370	255,338	5/24/13	MA

	/ANDREA LEGGETT/ Primary Examiner.Art Unit 2171

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13247728	DE PAZ, ALEXANDER
	Examiner	**Art Unit**
	ANDREA LEGGETT	2171

✓	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	01/26/2014	08/21/2014							
	1	✓	✓							
	2	✓	✓							
	3	✓	✓							
	4	✓	✓							
	5	✓	✓							
	6	✓	✓							
	7	✓	✓							
	8	✓	✓							
	9	✓	✓							
	10	✓	✓							
	11	✓	✓							
	12	✓	✓							
	13	✓	✓							
	14	✓	✓							
	15	✓	✓							
	16	✓	✓							
	17	✓	✓							

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	64	((ALEXANDER) near2 ("DE PAZ")).INV.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2014/01/25 20:10
S3	5	(("20100245256") or ("20100245209") or ("20080062625") or ("20080165144") or ("20100085382")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/25 20:22
S4	2	(("20100182265") or ("20100298032")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/25 20:30
S5	1	("20110230178").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/25 20:40
S6	51	wave shape with indicator	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:32
S7	26	wave shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:36
S8	7	curve shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:38
S9	103	(curve or curvy) with shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:39
S10	7	(curve or curvy) shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:39
S11	4	loop shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:42
S12	3	loop shape with indicator	US-PGPUB; USPAT;	ADJ	OFF	2014/01/25 22:42

			USOCR; DERWENT			
S13	1	("20100305843").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 18:24
S14	214	"715/761".CCLS.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2014/01/26 19:34
S15	31	(("20060082518") or ("20060206825") or ("20080122796") or ("20080062625") or ("20080165144") or ("20080174570") or ("20090119678") or ("20090254861") or ("20100064244") or ("20100081475") or ("20100079355") or ("20100085274") or ("20100085382") or ("20100088532") or ("20100100842") or ("20100182247") or ("20100182265") or ("20100223553") or ("20100245209") or ("20100245256") or ("20100298032") or ("20100321275") or ("20110230178") or ("20120081270") or ("20120081277") or ("20120081302") or ("20120081400") or ("20120084674") or ("20120084693") or ("20120084720") or ("20120084722")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 19:46
S16	10	(("7996045") or ("20020097194") or ("20100137027") or ("20100182251") or ("20100227651") or ("20100280676") or ("20110128241") or ("20120246374") or ("20120297304") or ("20120299554")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 19:51
S17	20	(("6919864") or ("7289083") or ("8228292") or ("8261213") or ("8289292") or ("20060211454") or ("20070198948") or ("20080059915") or ("20090235203") or ("20090262074") or ("20100088634") or ("20100245240") or ("20100304791") or ("20110175805") or ("20110187662") or ("20110209058") or ("20110210922") or ("20110239142") or ("20120005602") or ("20120280924") or ("2013012025~")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 19:53
S18	18	(("6331840") or ("6545669") or ("7839419") or ("8356258") or ("20030059003") or ("20050289478") or ("20060012951") or ("20060227106") or ("20080036743") or ("20090291760") or ("20090298548") or ("20100064536") or ("20100162128") or ("20100164836") or ("20100211872") or ("20100262554") or ("20100313156") or ("20110025625")).PN. or ((2011/0074717) or (2011/0107272) or (2011/0157057) or (2012/0054401)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 19:56
S19	1	("20110230178").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/19 08:59
S20	1	("20100085382").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/19 14:30
S21	2	"US 20120084676"	US-	ADJ	OFF	2014/08/19

			PGPUB; USPAT; USOCR; DERWENT			15:54
S22	50	g06f 3/04883	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 15:59
S23	12	g06f 3/04883 and (minimiz$9 or maximiz$9)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 16:00
S24	16	g06f 3/0486	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 17:33
S25	1	dual (display or screen) same first application same second application same (maximiz$9 or minimiz$9)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 17:41
S26	1	dual (display or screen) (maximiz$9 or minimiz$9)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 17:50
S27	169	dual (display or screen) same (maximiz$9 or minimiz$9)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 17:51
S28	88	dual (display or screen) same (maximiz$9 or minimiz$9) and second (window or application)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/08/19 17:51
S29	4	(("20070285401") or ("20100081475") or ("20100060587") or ("20040095401")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/19 18:07
S30	1	("20110209097").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/19 19:08
S31	1	("5835090").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/08/19 19:52

EAST Search History (Interference)

<This search history is empty>

8/21/2014 2:27:09 PM
C:\Users\aleggett\Documents\EAST\Workspaces\13-247728.wsp

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
(Use as many sheets as necessary)				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C Leggett
Sheet	1	of	2	Attorney Docket Number	6583-69

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	6577496	06/10/2003	Gioscia et al.	
	2	6987988	01/17/2006	Uchiyama	
	3	7432876	10/07/2008	Okuley	
	4	2006/0197755	09/07/2006	Bawany	
	5	2009/0278806	11/12/2009	Duarte et al.	
	6	2010/0013778	01/21/2010	Liu et al.	
	7	2010/0058231	03/04/2010	Duarte et al.	
	8	2010/0248788	09/30/2010	Yook et al.	
	9	2011/0012931	01/20/2011	Abe	
	10	2011/0143769	06/16/2011	Jones et al.	
	11	2011/0267256	11/03/2011	Stevens et al.	
	12	2012/0268399	10/25/2012	Cheng 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.
	13	"Make Windows Position Your Dual Monitors Correctly," How-To Geek.com, Apr. 17, 2010, [retrieved on Mar. 4, 2014], 4 pages. Retrieved from: www.howtogeek.com/howto/14875/make-windows-position-your-dual-monitors-correctly/
	14	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2011/053884, mailed Mar. 13, 2014 (Attorney's Ref. No. 6583-44-PCT) 8 pages
	15	Official Action for U.S. Patent Application No. 13/247,359 mailed Mar. 21, 2014 (Attorney's Ref. No. 6583-44) 12 pages.
	16	Official Action for U.S. Patent Application No. 13/247,787, mailed May 14, 2014 (Attorney's Ref. No. 6583-46) 23 pages

Examiner Signature	/Andrea Leggett/	Date Considered	08/21/2014

*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. /A.L./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
(Use as many sheets as necessary)				Art Unit	2171
				Examiner Name	Andrea C Leggett
Sheet	2	of	2	Attorney Docket Number	6583-69

	17	Official Action for U.S. Patent Application No. 13/247,823 mailed Mar. 12, 2014 (Attorney's Ref. No. 6583-49) 19 pages
	18	Official Action for U.S. Patent Application No. 13/341,666, mailed Jun. 04, 2014 (Attorney's Ref. No. 6583-107) 19 pages
	19	Official Action for U.S. Patent Application No. 13/341,634, mailed Jun. 04, 2014 (Attorney's Ref. No. 6583-108) 20 pages
	20	Official Action for U.S. Patent Application No. 13/365,157, mailed Jan. 21, 2014 (Attorney's Ref. No. 6583-181), 21 pages
	21	Official Action for U.S. Patent Application No. 13/365,157, mailed May 30, 2014 (Attorney's Ref. No. 6583-181) 22 pages
	22	Official Action for U.S. Patent Application No. 13/365,153, mailed Jan. 16, 2014 (Attorney's Ref. No. 6583-182), 17 pages
	23	Official Action for U.S. Patent Application No. 13/365,153, mailed May 15, 2014 (Attorney's Ref. No. 6583-182) 17 pages
	24	Official Action for U.S. Patent Application No. 13/365,148, mailed May 29, 2014 (Attorney's Ref. No. 6583-183) 13 pages
	25	Notice of Allowance for U.S. Patent Application No. 12/948,682, mailed Jan. 27, 2014 (Attorney's Ref. No. 6583-379), 8 pages
	26	Notice of Allowance for U.S. Patent Application No. 13/222,888, mailed Jun. 09, 2014 (Attorney's Ref. No. 6583-50) 5 pages

Examiner Signature	/Andrea Leggett/	Date Considered	08/21/2014

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.L./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
(Use as many sheets as necessary)				Art Unit	2171
				Examiner Name	Andrea C Leggett
Sheet	1	of	2	Attorney Docket Number	6583-69

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	6577496	06/10/2003	Gioscia et al.	
	2	6987988	01/17/2006	Uchiyama	
	3	7432876	10/07/2008	Okuley	
	4	2006/0197755	09/07/2006	Bawany	
	5	2009/0278806	11/12/2009	Duarte et al.	
	6	2010/0013778	01/21/2010	Liu et al.	
	7	2010/0058231	03/04/2010	Duarte et al.	
	8	2010/0248788	09/30/2010	Yook et al.	
	9	2011/0012931	01/20/2011	Abe	
	10	2011/0143769	06/16/2011	Jones et al.	
	11	2011/0267256	11/03/2011	Stevens et al.	
	12	2012/0268399	10/25/2012	Cheng 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.
	13	"Make Windows Position Your Dual Monitors Correctly," How-To Geek.com, Apr. 17, 2010, [retrieved on Mar. 4, 2014], 4 pages. Retrieved from: www.howtogeek.com/howto/14875/make-windows-position-your-dual-monitors-correctly/
	14	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2011/053884, mailed Mar. 13, 2014 (Attorney's Ref. No. 6583-44-PCT) 8 pages
	15	Official Action for U.S. Patent Application No. 13/247,359 mailed Mar. 21, 2014 (Attorney's Ref. No. 6583-44) 12 pages.
	16	Official Action for U.S. Patent Application No. 13/247,787, mailed May 14, 2014 (Attorney's Ref. No. 6583-46) 23 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.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
(Use as many sheets as necessary)				Art Unit	2171
				Examiner Name	Andrea C Leggett
Sheet	2	of	2	Attorney Docket Number	6583-69

	17	Official Action for U.S. Patent Application No. 13/247,823 mailed Mar. 12, 2014 (Attorney's Ref. No. 6583-49) 19 pages
	18	Official Action for U.S. Patent Application No. 13/341,666, mailed Jun. 04, 2014 (Attorney's Ref. No. 6583-107) 19 pages
	19	Official Action for U.S. Patent Application No. 13/341,634, mailed Jun. 04, 2014 (Attorney's Ref. No. 6583-108) 20 pages
	20	Official Action for U.S. Patent Application No. 13/365,157, mailed Jan. 21, 2014 (Attorney's Ref. No. 6583-181), 21 pages
	21	Official Action for U.S. Patent Application No. 13/365,157, mailed May 30, 2014 (Attorney's Ref. No. 6583-181) 22 pages
	22	Official Action for U.S. Patent Application No. 13/365,153, mailed Jan. 16, 2014 (Attorney's Ref. No. 6583-182), 17 pages
	23	Official Action for U.S. Patent Application No. 13/365,153, mailed May 15, 2014 (Attorney's Ref. No. 6583-182) 17 pages
	24	Official Action for U.S. Patent Application No. 13/365,148, mailed May 29, 2014 (Attorney's Ref. No. 6583-183) 13 pages
	25	Notice of Allowance for U.S. Patent Application No. 12/948,682, mailed Jan. 27, 2014 (Attorney's Ref. No. 6583-379), 8 pages
	26	Notice of Allowance for U.S. Patent Application No. 13/222,888, mailed Jun. 09, 2014 (Attorney's Ref. No. 6583-50) 5 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. [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.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

To:

JOHNSON, Brent, P.
Sheridan Ross P.C.
1560 Broadway, Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

RECEIVED
APR 01 2014
SHERIDAN ROSS P.C.
DOCKETING DEPT

Date of mailing *(day/month/year)* 13 March 2014 (13.03.2014)	
Applicant's or agent's file reference 6583-44-PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2011/053884	29 September 2011 (29.09.2011)	01 October 2010 (01.10.2010)

Applicant
IMERJ LLC et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Philippe Bécamel

e-mail: pt03.pct@wipo.int

Ex. 1002, p. 154
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-44-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2011/053884	International filing date *(day/month/year)* 29 September 2011 (29.09.2011)	Priority date *(day/month/year)* 01 October 2010 (01.10.2010)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant IMERJ LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 7 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☒	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 04 March 2014 (04.03.2014)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Philippe Bécamel e-mail: pt03.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: BRENT P. JOHNSON
SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	28 FEB 2012
Applicant's or agent's file reference 6583-44-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US 11/53884	29 September 2011 (29.09.2011)	01 October 2010 (01.10.2010)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06F 3/ 048 (2012.01)
USPC - 715/769

Applicant IMERJ LLC

1. This opinion contains indications relating to the following items:

- [X] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [X] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [X] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to th IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Fom PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	03 February 2012 (03.02.2012)	Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53884

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53884

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	7, 14, 20	YES
	Claims	1-6, 8-13, 15-19	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1-6, 8-13, 15-19 lack novelty under PCT Article 33(2) as being anticipated by US 2010/0245209 A1 to Miller et al., (herein after "Miller").

As per claim 1, Miller discloses a method of controlling data displayed by a multi-screen device (Abstract, a dual-display mobile computer device), comprising:
determining that the multi-screen device has been placed in a dual display state with a first desktop or application displayed on a first display and second desktop or application displayed on a second display, wherein data from the first and second desktops/application are displayed on their respective first and second displays (para [0003], [0004]);
determining that the first and second desktops or applications are each displayed in respective first portrait or landscape orientations (para [0005], [0018] ,[0019], [0020], [0021]);
determining that an input is received from at least one of the desktops or applications, or from the device, or from a user, instructing that the first orientations of one of the desktops or applications should change to a second different orientation (para [0001], [0017], [0026], [0027] the position data and the position sensors keep track of the previous orientation for the displays and decide what the orientation the first and second display should be displayed after received an input); and
in response to determining that an input is received, causing the data from a selected one of the first or second desktops or applications to be displayed in the second different orientation (para [0001], [0017], [0026], [0027], [0031]).

As per claim 2, Miller further discloses the first and second desktops or applications are displayed in first portrait orientations, and in response to determining that the input is received, causing the data from a selected one of the first or second desktops or applications to be displayed in a landscape orientation as the second different orientation, and the non-selected one of the first or second desktops remains in the first portrait orientation (para [0001], [0013], [0017], [0026], [0027], [0031]).

As per claim 3, Miller further discloses the first and second desktops or applications are displayed in first landscape orientations, and in response to determining that the input is received, causing the data from a selected one of the first or second desktops or applications to be displayed in a portrait orientation as the second different orientation, and the non-selected one of the first or second desktops remains in the first landscape orientation (para [0001], [0013], [0017], [0026], [0027], [0031]).

As per claim 4, Miller further discloses the input is at least one of a user input, application input, or device input comprising data received from a position sensor or an accelerometer (para [0013], [0024], [0026], [0031], [0038], and Fig. 1).

As per claim 5, Miller further discloses a user sets a control protocol to determine precedence in which input from a plurality of inputs controls the data from the selected one of the first or second desktops or applications to be displayed in the second different orientation (para [0013], wherein the position controller can determine how one display is positioned relative to the other, also see parea [0023], [0024], [0025], [0026]).

As per claim 6, Miller further discloses the at least one input comprises a plurality of inputs including application (para [0016], [0047], Fig. 5), device (para[0047], Fig. 5), and user inputs (para [0031]).

-- See supplemental sheet --

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53884

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fu lly supported by the description, are made:
Specification contains a typographic error.

[0097] 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.

The first sentence should be:
[0097] Communications between various components of the device 100 can be carried by one or more buses 220.

The item number "222" is not found in Fig. 2.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53884

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:
-- Box V.2 Citations and explanations

As per claim 8, Miller discloses a non-transitory computer-readable medium having stored thereon instructions that cause a computing system to execute a method, the instructions comprising (para [0050]-[0051], computer readable media; [0023], computer-executable instructions):
instructions configured to determine that the multi-screen device has been placed in a dual display state with a first desktop or application displayed on a first display and second desktop or application displayed on a second display, wherein data from the first and second desktops/application are displayed on their respective first and second displays (para [0034], [0003], [0004], a dual-display computer mobile device);
instructions configured to determine that the first and second desktops or applications are each displayed in respective first portrait or landscape orientations (para [0005], [0018], [0019], [0020], [0021]);
instructions configured to determine that an input is received from at least one of the desktops or applications, or from the device, or from a user, instructing that the first orientations of one of the desktops or applications should change to a second different orientation (para [0001], [0017], [0026], [0027] the position data and the position sensors keep track of the previous orientation for the displays and decide what the orientation the first and second display should be displayed after received an input); and
in response to determining that an input is received, instructions configured to cause the data from a selected one of the first or second desktops or applications to be displayed in the second different orientation (para [0001], [0017], [0026], [0027], [0031]).

As per claim 9, Miller further discloses the first and second desktops or applications are displayed in first portrait orientations, and in response to determining that the input is received, causing the data from a selected one of the first or second desktops or applications to be displayed in a landscape orientation as the second different orientation, and the non-selected one of the first or second desktops remains in the first portrait orientation (para [0001], [0013], [0017], [0026], [0027], [0031]).

As per claim 10, Miller further discloses the first and second desktops or applications are displayed in first landscape orientations, and in response to determining that the input is received, causing the data from a selected one of the first or second desktops or applications to be displayed in a portrait orientation as the second different orientation, and the non-selected one of the first or second desktops remains in the first landscape orientation (para [0001], [0013], [0017], [0026], [0027], [0031]).

As per claim 11, Miller further discloses the input is at least one of a user input, application input, or device input comprising data received from a position sensor or an accelerometer(para [0013], [0024], [0026], [0031], [0038], and Fig. 1).

As per claim 12, Miller further discloses a user sets a control protocol to determine precedence in which input from a plurality of inputs controls the data from the selected one of the first or second desktops or applications to be displayed in the second different orientation (para [0013], wherein the position controller can determine how one display is positioned relative to the other, also see parea [0023], [0024], [0025], [0026]).

As per claim 13, Miller further discloses the at least one input comprises a plurality of inputs including application (para [0016], [0047], Fig. 5), device (para[0047], Fig. 5), and user inputs (para [0031]).

As per claim 15, Miller discloses a multi-screen user device (Abstract, a dual-display mobile computer device), comprising :
a first display including a first display area (e.g. first display 108, para [0003],[0012],[0018]);
a second display including a second display area (e.g. second display 112, para [0003],[0012].[0018]);
an independent display orientation element configured to manage a plurality of inputs corresponding to data to determine the orientation of desktops or applications displayed on the first and second displays (para [0001], [0017], [0026], [0027] the position data and the position sensors keep track of the previous orientation for the displays and decide what the orientation the first and second display should be displayed after received an input); and
a computer-readable medium having instructions stored thereon that include(para [0050]-[0051], computer readable media; [0023], computer-executable instructions):
a first set of instructions configured to determine that the multi-screen device has been placed in a dual display state with a first desktop or application displayed on a first display and second desktop or application displayed on a second display, wherein data from the first and second desktops/application are displayed on their respective first and second displays (para [0034], [0035]) ;
a second set of instructions configured to determine that the first and second desktops or applications are each displayed in respective first portrait or landscape orientations (para [0005], [0018], [0019], [0020], [0021]);
a third set of instructions configured to determine that an input is received from at least one of the desktops or applications, or from the device, or from a user, instructing that the first orientations of one of the desktops or applications should change to a second different orientation (para [0001], [0017], [0026], [0027] the position data and the position sensors keep track of the previous orientation for the displays and decide what the orientation the first and second display should be displayed after received an input); and
in response to determining that an input is received, a fourth set of instructions configured to cause the data from a selected one of the first or second desktops or applications to be displayed in the second different orientation (para [0001], [0017], [0026], [0027], [0031]).
-- see supplemental sheet --

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53884

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:
-- Box V.2 Citations and explanations

As per claim 16, Miller further discloses the first and second desktops or applications are displayed in first portrait orientations, and in response to determining that the input is received, causing the data from a selected one of the first or second desktops or applications to be displayed in a landscape orientation as the second different orientation, and the non-selected one of the first or second desktops remains in the first portrait orientation (para [0001], [0013], [0017], [0026], [0027], [0031]).

As per claim 17, Miller further discloses the the first and second desktops or applications are displayed in first landscape orientations, and in response to determining that the input is received, causing the data from a selected one of the first or second desktops or applications to be displayed in a portrait orientation as the second different orientation, and the non-selected one of the first or second desktops remains in the first landscape orientation (para [0001], [0013], [0017], [0026], [0027], [0031]).

As per claim 18, Miller further discloses the a user sets a control protocol to determine precedence in which input from a plurality of inputs controls the data from the selected one of the first or second desktops or applications to be displayed in the second different orientation (para [0013], wherein the position controller can determine how one display is positioned relative to the other, also see parea [0023], [0024], [0025], [0026]).

As per claim 19, Miller further discloses wherein the at least one input comprises a plurality of inputs including application, device, and user inputs (para [0016], [0047], Fig. 5), device (para[0047], Fig. 5), and user inputs (para [0031]).

Claims 7, 14 and 20 lack an inventive step under PCT Article 33(3) as being obvious over Miller in view of US 2008/0174570 A1 by Jobs et al. (hereinafter 'Jobs').

As per claim 7, Miller discloses a method of controlling data displayed by a multi-screen device. Miller further discloses in response to determining that the user input is received, causing the data from another selected one of the first or second desktops or applications to remain displayed in the first orientation while the data from the selected one of the first or second desktops is displayed in the second different orientation (para [0004], [0024] [0025], wherein "determine a position angle between the first display and the second display that correlates to a display posture of the mobile computer device", which means the first orientation of one of the desktops or applications is part of state data, which is been kept, until the position is changed; also see Fig. 3). Miller does not expressly disclose the first orientation of one of the desktops or applications should be locked. However, Jobs discloses the first orientation of one of the desktops or applications should be locked. Jobs teaches it in an analogous prior art, see Jobs's para [0956], [0957], [0965], [0966] and Fig. 44A, 44B, and 44C. It would have been obvious to one of ordinary skill in the art to add Miller's controlling data displayed by a multi-screen device with the first orientation of one of the desktops or applications should be locked feature because the addition would keep track of the display information (Jobs's para [0956], [0957]).

As per claim 14, Miller discloses a non-transitory computer-readable medium having stored thereon instructions that cause a computing system to execute a method, wherein instructions configured to determine that the multi-screen device. Miller further discloses in response to determining that the user input is received, causing the data from another selected one of the first or second desktops or applications to remain displayed in the first orientation while the data from the selected one of the first or second desktops is displayed in the second different orientation (para [0004], [0024] [0025], wherein "determine a position angle between the first display and the second display that correlates to a display posture of the mobile computer device", which means the first orientation of one of the desktops or applications is part of state data, which is been kept, until the position is changed; also see Fig. 3). Miller does not expressly disclose the first orientation of one of the desktops or applications should be locked. However, Jobs discloses the first orientation of one of the desktops or applications should be locked. Jobs teaches it in an analogous prior art, see Jobs's para [0956], [0957], [0965], [0966] and Fig. 44A, 44B, and 44C. It would have been obvious to one of ordinary skill in the art to add Miller's controlling data displayed by a multi-screen
device with the first orientation of one of the desktops or applications should be locked feature because the addition would keep track of the display information (Jobs's para [0956], [0957]).

As per claim 20, Miller discloses a multi-screen user device. Miller further discloses in response to determining that the user input is received, causing the data from another selected one of the first or second desktops or applications to remain displayed in the first orientation while the data from the selected one of the first or second desktops is displayed in the second different orientation (para [0004], [0024] [0025], wherein "determine a position angle between the first display and the second display that correlates to a display posture of the mobile computer device", which means the first orientation of one of the desktops or applications is part of state data, which is been kept, until the position is changed; also see Fig. 3). Miller does not expressly disclose the first orientation of one of the desktops or applications should be locked. However, Jobs discloses the first orientation of one of the desktops or applications should be locked. Jobs teaches it in an analogous prior art, see Jobs's para [0956], [0957], [0965], [0966] and Fig. 44A, 44B, and 44C. It would have been obvious to one of ordinary skill in the art to add Miller's controlling data displayed by a multi-screen device with the first orientation of one of the desktops or applications should be locked feature because the addition would keep track of the display information (Jobs's para [0956], [0957]).

Claims 1-20 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

Electronic Patent Application Fee Transmittal

Application Number:	13247728
Filing Date:	28-Sep-2011
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Filer:	Douglas W. Swartz/robert roe-pachirat
Attorney Docket Number:	6583-69

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:	19358791
Application Number:	13247728
International Application Number:	
Confirmation Number:	9244
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Customer Number:	111285
Filer:	Douglas W. Swartz/robert roe-pachirat
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-69
Receipt Date:	19-JUN-2014
Filing Date:	28-SEP-2011
Time Stamp:	18:53:15
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	5251
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 1.17 (Patent application and reexamination processing fees)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		6583-69_IDS_05.pdf	209560 ad3d2bb9ffc0e9f3fe2f3cac72bf34f9f72aa150	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:					
2	Non Patent Literature	Make_Windows_Position_Your_Dual_Monitors.pdf	789337 bb0d0eb60c6d3a0490f83351f99cf2f08d5d8cae	no	4
Warnings:					
Information:					
3	Non Patent Literature	6583-44-PCT_IPRP_03-13-2014.pdf	908569 43ba799e078d7b2d6df232591cdbfe15d0ef480e	no	8
Warnings:					
Information:					
4	Non Patent Literature	6583-44_OA_03-21-2014.pdf	412290 a9ae2948999383516502b1d1798f2526af279a9a	no	12
Warnings:					
Information:					
5	Non Patent Literature	6583-46_OA_05-14-2014.pdf	834799 9a9ea0a61dc13580b5756da011f4ffb90182c2f2	no	23
Warnings:					
Information:					
6	Non Patent Literature	6583-49_OA_03-12-2014.pdf	758553 4588551829b5fc8cc25630c0caf18e163b92c999	no	19
Warnings:					
Information:					
7	Non Patent Literature	6583-107_OA_06-04-2014.pdf	913992 8c69c6358363926724986fe3a5bddf5ec27e972c	no	19
Warnings:					
Information:					

8	Non Patent Literature	6583-108_OA_06-04-2014.pdf	919942 bd75b8568551cf9b56ded53c34be02f930214db5	no	20
Warnings:					
Information:					
9	Non Patent Literature	6583-181_OA_01-21-2014.pdf	708641 bb8735d9a45181c30807a5a2c16ffc64266e5104	no	21
Warnings:					
Information:					
10	Non Patent Literature	6583-181_OA_05-30-2014.pdf	804736 fee4a2bac17f0c3885e3fc47efdb06bea2d457d9	no	22
Warnings:					
Information:					
11	Non Patent Literature	6583-182_OA_01-16-2014.pdf	583744 35a4f86aeb90d7707a2ae39eb82608e3fc08a344	no	17
Warnings:					
Information:					
12	Non Patent Literature	6583-182_OA_05-15-2014.pdf	587504 3e09f2f0ff8e2d0fd2b3d5fe8396f7d9c62ffe2e	no	17
Warnings:					
Information:					
13	Non Patent Literature	6583-183_OA_05-29-2014.pdf	353428 79bfe47f162ca1128295ad285076368ea31f988e	no	13
Warnings:					
Information:					
14	Non Patent Literature	6583-379_NOA_01-27-2014.pdf	425582 491cceb976ea6129630e6abe024b4868b63362d6	no	8
Warnings:					
Information:					
15	Non Patent Literature	6583-50_NOA_06-09-2014.pdf	352868 de7bd488d9b0c88b5c9337c816b9d994186bc57d	no	5
Warnings:					
Information:					
16	Fee Worksheet (SB06)	fee-info.pdf	30532 d1aa532e94488510cc9ed84dd40cfdf275ce82d3	no	2
Warnings:					
Information:					

Total Files Size (in bytes):	9594077

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: 2171
Alexander de Paz	)	Confirmation No.: 9244
Serial No.: 13/247,728	)	Examiner: Andrea C Leggett
Filed: September 28, 2011	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-69	)	
Entitled: "Dual Screen Application Visual Indicator"	)	*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

Ex. 1002, p. 168
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

Ex. 1002, p. 169
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

By: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37,739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: June 19, 2014

Ex. 1002, p. 170
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.: 13/247,728	)	Confirmation No.: 9244
Applicant: Alexander de Paz	)	TC/A.U.: 2171
Filed: September 28, 2011	)	Examiner: Leggett, Andrea C.
Docket No.: 6583-69	)	
	)	***Filed Electronically***
FOR: "DUAL SCREEN APPLICATION VISUAL INDICATOR"	)	

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. While Applicant believes no 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. (Original) A method of displaying a plurality of desktops and/or applications, each having at least one window, on a multi-screen device, comprising:

receiving, by a processor, a first input that represents an instruction to reveal one of a desktop or application on a first display of the multi-screen device;

selecting, by a processor, a first desktop or application to display on the first display;

receiving, by a processor, a second input that represents an instruction to reveal one of a desktop or application on a second display of the multi-screen device;

selecting, by a processor, a second desktop or application to display on the second display;

displaying, by a processor, the selected first and second desktops or applications on the first and second displays;

receiving, by a processor, a third input that represents an instruction to maximize or minimize a selected one of the first or second desktops or applications;

displaying, by a processor, the selected one of the first or second desktops or applications in a maximized or minimized condition

2. (Original) The method of claim 1, wherein at least one of the first, second, and third inputs is achieved by at least a user input gesture.

3. (Original) The method of claim 1, wherein the third input is a user gesture comprising at least one of a tap or long hold gesture.

4. (Original) The method of claim 1, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that display can be maximized or minimized by a user gesture.

Ex. 1002, p. 172
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

5. (Currently Amended) The method of claim [[1]]4, wherein the visual indicator has a wave shape.

6. (Original) The method of claim 1, wherein the third input is an instruction to maximize a selected one of the first or second desktops or applications, resulting in the selected one being displayed on both of the first and second displays.

7. (Original) The method of claim 1, wherein the third input is an instruction to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only on either the first and second displays.

8. (Original) A non-transitory computer-readable medium having stored thereon instructions that cause a computing system to execute a method, the instructions comprising:

instructions configured to receive a first predetermined input that represents an instruction to determine and reveal a first desktop or application on a first display of the multi-screen device;

instructions configured to receive a second predetermined input that represents an instruction to determine and reveal a second desktop or application on a second display of the multi-screen device;

instructions configured to respond to the first and second predetermined inputs with outputs that cause the first desktop or application to be displayed on the first display and cause the second desktop or application to be displayed on the second display;

instructions configured to receive a third predetermined input that represents an instruction to maximize or minimize a selected one of the first or second desktops or applications; and

Ex. 1002, p. 173
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

instructions configured to respond to the third predetermined input that causes displaying of the selected one of the first or second desktops or applications in a maximized or minimized condition.

9. (Original) The computer-readable medium of claim 8, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that display can be maximized or minimized by a user gesture according to the instructions configured to receive a third predetermined input.

10. (Original) The computer-readable medium of claim 8 wherein the third predetermined input is an instruction to maximize a selected one of the first or second desktops or applications, resulting in the selected one being displayed on both of the first and second displays according to the instructions configured to respond to the third predetermined input.

11. (Original) The computer-readable medium of claim 8 wherein the third predetermined input is an instruction to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only on either the first and second displays according to the instructions configured to respond to the third predetermined input.

12. (Currently Amended) A multi-screen user device, comprising:

a first display including a first display area;

a second display including a second display area;

a first user input gesture area of the first display;

a second user input gesture area of the second display, wherein the first and second user input gesture areas are configured to accept input from a user;

a <u>non-transitory</u> computer-readable medium having instructions stored thereon that include:

Ex. 1002, p. 174
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

a first set of instructions configured to determine a number and identity of desktops or applications selected to be run by a user;

a second set of instructions configured to determine, based on the number and identity of the desktops or applications running, a window stack comprising a logical representation of the desktops and applications within an ordered group whereby a user can selectively move a selected desktop or application within the window stack and to be displayed in either the first or second displays;

a third set of instructions responsive to a gesture made by the user to maximize or minimize a selected one of the first or second desktops or applications; and

wherein the selected one of the first or second desktops or applications is displayed in a maximized or minimized condition.

13. (Original) The device of claim 12, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that display can be maximized or minimized by a user gesture.

14. (Original) The device of claim 13, wherein the visual indicator has a wave shape.

15. (Original) The device of claim 12, wherein the third set of instructions are instructions to maximize a selected one of the first or second desktops or applications, resulting in the selected one being displayed on both of the first and second displays.

16. (Original) The device of claim 12, wherein the third set of instructions are instructions to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only on either the first and second displays.

17. (Original) The device of clam 13, wherein the visual indicator appears on the applications or desktops running on both the first and second displays so that

Ex. 1002, p. 175
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

gestures made by the user to maximize or minimize a selected one of the first or second desktops or applications enables a user to maximize and minimize the applications or desktops appearing on both the first and second displays sequentially and repeatedly.

Ex. 1002, p. 176
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

REMARKS

Examiner Interview

The undersigned applicant's representative would like to thank the Examiner for her time discussing this application on February 19, 2014. The Examiner's time spent discussing this application is appreciated.

Status of the Claims

The above-identified patent application has been reviewed in light of the Examiner's Action dated January 31, 2014. Claims 5 and 12 are amended. No new claims have been added or cancelled. Applicants respectfully request reconsideration of this application as amended.

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

Claim 12-17 stand rejected under 35 U.S.C. § 101 as being directed to non-statutory subject matter. Claim 12 has been amended to recite, "A non-transitory computer readable medium." Claims 13-17, which depend from claim 12, are also believed to be in proper form. Accordingly, Applicant respectfully requests the withdrawal of the rejection under 35 U.S.C. § 101.

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

Claims 1-4, 6-13, and 15-17 stand rejected under 35 U.S.C. § 102(b) as being unpatentable over U.S. Patent Publication 2011/0230178 to Jones et al. ("Jones").

This rejection is respectfully traversed. "A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference." Verdegaal Bros. v. Union Oil Co. of California, 814 F.2d 628, 631 (Fed. Cir. 1987) (emphasis added). Further, "[t]he identical invention must be shown in as complete detail as is contained in the claim." Richardson v. Suzuki Motor Co., 868 F.2d 1226, 1236 (Fed. Cir. 1989). Furthermore, each limitation of every claim must be given weight in determining patentability. See In re Wilson, 424 F.2d 1382, 1385, 165 USPQ 494, 496 (CCPA 1970) ("All words in a claim must be considered in

Ex. 1002, p. 177
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

judging the patentability of that claim against the prior art" (emphasis added); MPEP § 2106 ("USPTO personnel should begin claim analysis by identifying and evaluating each claim limitation" (emphasis added).) Broad generalizations of the claim limitations are insufficient to support an anticipation or obviousness rejection. Jones fails to disclose features required by claims 1-4, 6-13, and 15-17.

Independent Claims:

Claim 1 recites, *inter alia*:

receiving, by a processor, a first input that represents an instruction to reveal one of a desktop or application on a first display of the multi-screen device;

[...]

receiving, by a processor, a second input that represents an instruction to reveal one of a desktop or application on a second display of the multi-screen device;

[...]

displaying, by a processor, the selected first and second desktops or applications on the first and second displays;

The Examiner states that such a teaching is found in Jones. More particularly, "Figs. 5a-5c, 530 and 560; Fig. 6, 660; Fig. 7, 760; [0060] the first device 590 comprises a second portion 530." (Office Action, p. 4, ¶4).

First, Applicant submits that Jones fails to recite a "multi-screen device" but rather teaches a system of devices, namely: "***first device 590*** comprises a first display 510" and "***second device 550***" having "second display 560" (Jones, Figs. 5, ¶0060). (Emphasis added).

Furthermore, Jones is silent to a processor that is operable perform both of the claimed, "...receiving a first/second input [...] to **reveal** one of a desktop or application on a first/second display of the multi-screen device." Even, assuming *arguendo*, that Jones reveals content on first display 510 and second display 560. Jones still fails to render claim 1 as Jones teaches distinct devices, as evidenced by the separation illustrated in Jones Fig. 5(c). Any "reveal" operation, whereby one of a number of windows is brought to the top of the stack (*see* Application, as filed, ¶158), would be

Ex. 1002, p. 178
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

limited to one particular first display 510 or second display 560 as Jones is silent to any other operation of the separable devices.

As Jones fails to teach each claimed limitation, Applicant submits that claim 1 is allowable and respectfully requests withdrawal of the rejection thereto. In addition, independent claim 8 and 12 recite a similar limitation as that of claim 1, as is similarly rejection. Accordingly, Applicant submits that claims 8 and 12 are allowable over the art and respectfully requests withdrawal of the rejection and the allowance thereof.

Dependent claims

In addition to being allowable for reciting additional limitations of the allowable independent claims, additional reasons are believed to exist for the allowability of the dependent claims.

Claims 5 and 14 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Jones in view of U.S. Patent Publication 2010/0305843 to Yan et al. ("Yan").

Applicant respectfully disagrees. In particular, claims 5 and 14 recite, "wherein the visual indicator has a wave shape. Yan is relied up to provide the aforementioned limitation as such a teaching is absent in Jones.

However, what Yan discloses a representation of a path which may have an obstacle, (Yan, Fig. 2C, "curved shape" element 240), and thereby indicate to a user to around the obstacle. Rather than teaching the claimed wave shape, Yan teaches a path whereby happenstance dictates an indicator of a path.

Accordingly, Applicant submits that claims 5 and 14 are allowable and respectfully requests withdrawal of the rejection and the allowance thereof.

Ex. 1002, p. 179
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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: April 30, 2014

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

Ex. 1002, p. 180
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Electronic Acknowledgement Receipt

EFS ID:	18910219
Application Number:	13247728
International Application Number:	
Confirmation Number:	9244
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Customer Number:	111285
Filer:	Scott Weitzel/Genie Schnelle
Filer Authorized By:	Scott Weitzel
Attorney Docket Number:	6583-69
Receipt Date:	30-APR-2014
Filing Date:	28-SEP-2011
Time Stamp:	18:04:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		AMEND_01.pdf	136378 464da68be26a2e43ef8bbc3007d5b6c6a21c99ef	yes	10

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	6
	Applicant Arguments/Remarks Made in an Amendment	7	10
Warnings:			
Information:			
	Total Files Size (in bytes):	136378	

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 NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/247,728	09/28/2011	Alexander de Paz	6583-69	9244

111285 7590 02/25/2014

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

EXAMINER	
LEGGETT, ANDREA C.	

ART UNIT	PAPER NUMBER
2171	

NOTIFICATION DATE	DELIVERY MODE
02/25/2014	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)	
	13/247,728	DE PAZ, ALEXANDER	
	Examiner	Art Unit	
	ANDREA LEGGETT	2171	

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

(1) *ANDREA LEGGETT*. (3)_____.

(2) *Scott Weizel*. (4)_____.

Date of Interview: *19 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 and 4-7*.

Identification of prior art discussed: *Jones*.

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...)

Applicant discussed differences between the invention and the prior art. Applicant also mentioned amendments to the claim as it relates to "a processor". Examiner mentioned that the arguments will be considered upon further review of the references and will not hesitate to practice compact prosecution in accordance with Office policies .

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

/ANDREA LEGGETT/ Primary Examiner, Art Unit 2171	

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
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.
13/247,728	09/28/2011	Alexander de Paz	6583-69	9244

111285 7590 01/31/2014

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

EXAMINER	
LEGGETT, ANDREA C.	
ART UNIT	PAPER NUMBER
2171	

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. 13/247,728	Applicant(s) DE PAZ, ALEXANDER	
	Examiner ANDREA LEGGETT	Art Unit 2171	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 *9-28-11*.

☐ 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) *1-17* 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) *1-17* 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 _____ 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 *2-20-13, 7-2-13, 10-2-13, 1-7-14*.

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

4) ☐ Other: _____.

DETAILED ACTION

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

Claim Rejections - 35 USC § 101

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 **12-17 are** rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter because claims 12-17 comprise a "computer-readable medium" storing instructions that perform various functions. However, the Specification of the present disclosure defines the medium expressly as including transmission media ([0028] "*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 execution...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*"). Thus, the broadest, reasonable interpretation of "computer-readable medium" encompasses nonstatutory subject matter (transmission media) that is unpatentable under 35 U.S.C. 101.

Claim Rejections - 35 USC § 102

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

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

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

Claims **1-4, 6-13, and 15-17** are rejected under pre-AIA 35 U.S.C. 102(e) as being anticipated by **Jones et al. (U.S. 2011/0230178)**.

With regard to claim 1, Jones teaches a method of displaying a plurality of desktops and/or applications, each having at least one window, on a multi-screen device **(Figs. 5b-7)**, comprising:

receiving, by a processor **(Fig. 8, 810; [0071])**, a first input that represents an instruction to reveal one of a desktop or application on a first display of the multi-screen device **(Figs. 5a-5c, 510; Fig. 6, 610; Fig. 7, 710; [0060] a first**

display 510, first portion 520);

selecting, by a processor, a first desktop or application to display on the first display **(Figs. 5a-5c, 510; Fig. 6, 610; Fig. 7, 710; [0060] – [0063])**;

receiving, by a processor, a second input that represents an instruction to reveal one of a desktop or application on a second display of the multi-screen device **(Figs. 5a-5c, 530 and 560; Fig. 6, 660; Fig. 7, 760; [0060] the first device 590 comprises a second portion 530)**;

selecting, by a processor, a second desktop or application to display on the second display **(Figs. 5a-5c, 530 and 560; Fig. 6, 660; Fig. 7, 760; [0060] – [0063])**;

displaying, by a processor, the selected first and second desktops or applications on the first and second displays device **(Figs. 5a-7; [0060] – [0063])**;

receiving, by a processor, a third input that represents an instruction to maximize or minimize a selected one of the first or second desktops or applications **([0059] a user can more easily apply touch gestures, such as ("drag and drop," "pinch to zoom," etc.) across flush displays; [0066] For example, with reference to FIG. 6, in response to the detection of a multi-touch "pinch" gesture (two fingers touching the display moving toward each other) on the first display 610, the mobile device 600 can update both the first and second displays 610 and 660 to zoom out from the selected map area. The mobile device 600 can zoom in, zoom out, rotate the map or**

perform other operations in response to multi-finger gestures detected on the first display 610, the second display 660 or both displays (e.g., one finger touching the first display and a second finger touching the second display));

displaying, by a processor, the selected one of the first or second desktops or applications in a maximized or minimized condition **(Fig. 6; [0059]; [0066])**

With regard to claim 2, the limitations are addressed above and Jones teaches wherein at least one of the first, second, and third inputs is achieved by at least a user input gesture **([0059] a user can more easily apply touch gestures, such as ("drag and drop," "pinch to zoom," etc.) across flush displays; [0066] For example, with reference to FIG. 6, in response to the detection of a multi-touch "pinch" gesture (two fingers touching the display moving toward each other) on the first display 610, the mobile device 600 can update both the first and second displays 610 and 660 to zoom out from the selected map area. The mobile device 600 can zoom in, zoom out, rotate the map or perform other operations in response to multi-finger gestures detected on the first display 610, the second display 660 or both displays (e.g., one finger touching the first display and a second finger touching the second display))**.

With regard to claim 3, the limitations are addressed above and Jones teaches wherein the third input is a user gesture comprising at least one of a tap or long hold gesture **([0089] A user can control browsing of the gallery by providing touch input (tap input…; [0068] a user can select…by tapping an icon displayed…; [0059]; [0066])**.

With regard to claim 4, the limitations are addressed above and Jones teaches wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that display can be maximized or minimized by a user gesture **(Fig. 7, 710)**.

With regard to claim 6, the limitations are addressed above and Jones teaches wherein the third input is an instruction to maximize a selected one of the first or second desktops or applications, resulting in the selected one being displayed on both of the first and second displays **([0059] a user can more easily apply touch gestures, such as ("drag and drop," "pinch to zoom," etc.) across flush displays; [0066] For example, with reference to FIG. 6, in response to the detection of a multi-touch "pinch" gesture (two fingers touching the display moving toward each other) on the first display 610, the mobile device 600 can update both the first and second displays 610 and 660 to zoom out from the selected map area. The mobile device 600 can zoom in, zoom out, rotate the map or perform other operations in response to multi-**

finger gestures detected on the first display 610, the second display 660 or both displays (e.g., one finger touching the first display and a second finger touching the second display)).

With regard to claim 7, the limitations are addressed above and Jones teaches wherein the third input is an instruction to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only on either the first and second displays **([0066] For example, with reference to FIG. 6, in response to the detection of a multi-touch "pinch" gesture (two fingers touching the display moving toward each other) on the first display 610, the mobile device 600 can update both the first and second displays 610 and 660 to zoom out from the selected map area. The mobile device 600 can zoom in, zoom out, rotate the map or perform other operations in response to multi-finger gestures detected on the first display 610, the second display 660 or both displays (e.g., one finger touching the first display and a second finger touching the second display))**.

With regard to claim 8, Jones teaches a non-transitory computer-readable medium having stored thereon instructions that cause a computing system to execute a method, the instructions comprising:

instructions configured to receive a first predetermined input that represents an instruction to determine and reveal a first desktop or application on

a first display of the multi-screen device **(Figs. 5a-5c, 510; Fig. 6, 610; Fig. 7, 710; [0060] a first display 510, first portion 520)**;

instructions configured to receive a second predetermined input that represents an instruction to determine and reveal a second desktop or application on a second display of the multi-screen device **(Figs. 5a-5c, 530 and 560; Fig. 6, 660; Fig. 7, 760; [0060] the first device 590 comprises a second portion 530)**;

instructions configured to respond to the first and second predetermined inputs with outputs that cause the first desktop or application to be displayed on the first display and cause the second desktop or application to be displayed on the second display **(Figs. 5a-7; [0060] – [0063])**;

instructions configured to receive a third predetermined input that represents an instruction to maximize or minimize a selected one of the first or second desktops or applications **([0059] a user can more easily apply touch gestures, such as ("drag and drop," "pinch to zoom," etc.) across flush displays; [0066] For example, with reference to FIG. 6, in response to the detection of a multi-touch "pinch" gesture (two fingers touching the display moving toward each other) on the first display 610, the mobile device 600 can update both the first and second displays 610 and 660 to zoom out from the selected map area. The mobile device 600 can zoom in, zoom out, rotate the map or perform other operations in response to multi-finger gestures detected on the first display 610, the second display 660 or both**

displays (e.g., one finger touching the first display and a second finger touching the second display)); and

instructions configured to respond to the third predetermined input that causes displaying of the selected one of the first or second desktops or applications in a maximized or minimized condition **(Fig. 6; [0059]; [0066])**.

With regard to claim 9, the medium claim corresponds to the method claim 4, respectively, and therefore is rejected with the same rationale.

With regard to claim 10, the medium claim corresponds to the method claim 6, respectively, and therefore is rejected with the same rationale.

With regard to claim 11, the medium claim corresponds to the method claim 7, respectively, and therefore is rejected with the same rationale.

With regard to claim 12, Jones teaches a multi-screen user device **(Figs. 5b-7)**, comprising:

a first display including a first display area **(Figs. 5a-5c, 510; Fig. 6, 610; Fig. 7, 710; [0060] – [0063])**;

a second display including a second display area **(Figs. 5a-5c, 530 and 560; Fig. 6, 660; Fig. 7, 760; [0060] – [0063])**;

a first user input gesture area of the first display **([0059]; [0066])**;

a second user input gesture area of the second display, wherein the first and second user input gesture areas are configured to accept input from a user **([0059]; [0066])**;

a computer-readable medium having instructions stored thereon that include:

a first set of instructions configured to determine a number and identity of desktops or applications selected to be run by a user **([0059]; [0066])**;

a second set of instructions configured to determine, based on the number and identity of the desktops or applications running, a window stack comprising a logical representation of the desktops and applications within an ordered group whereby a user can selectively move a selected desktop or application within the window stack and to be displayed in either the first or second displays **([0059] a user can more easily apply touch gestures, such as ("drag and drop," "pinch to zoom," etc.) across flush displays; [0066] For example, with reference to FIG. 6, in response to the detection of a multi-touch "pinch" gesture (two fingers touching the display moving toward each other) on the first display 610, the mobile device 600 can update both the first and second displays 610 and 660 to zoom out from the selected map area. The mobile device 600 can zoom in, zoom out, rotate the map or perform other operations in response to multi-finger gestures detected on the first display 610, the second display 660 or both displays**

(e.g., one finger touching the first display and a second finger touching the second display));

a third set of instructions responsive to a gesture made by the user to maximize or minimize a selected one of the first or second desktops or applications **([0059] a user can more easily apply touch gestures, such as ("drag and drop," "pinch to zoom," etc.) across flush displays; [0066] For example, with reference to FIG. 6, in response to the detection of a multi-touch "pinch" gesture (two fingers touching the display moving toward each other) on the first display 610, the mobile device 600 can update both the first and second displays 610 and 660 to zoom out from the selected map area. The mobile device 600 can zoom in, zoom out, rotate the map or perform other operations in response to multi-finger gestures detected on the first display 610, the second display 660 or both displays (e.g., one finger touching the first display and a second finger touching the second display))**; and

wherein the selected one of the first or second desktops or applications is displayed in a maximized or minimized condition **(Fig. 6; [0059]; [0066])**.

With regard to claim 13, the device claim corresponds to the method claim 4, respectively, and therefore is rejected with the same rationale.

With regard to claim 15, the device claim corresponds to the method claim 6, respectively, and therefore is rejected with the same rationale.

With regard to claim 16, the device claim corresponds to the method claim 11, respectively, and therefore is rejected with the same rationale.

With regard to claim 17, the limitations are addressed above and Jones teaches wherein the visual indicator appears on the applications or desktops running on both the first and second displays so that gestures made by the user to maximize or minimize a selected one of the first or second desktops or applications enables a user to maximize and minimize the applications or desktops appearing on both the first and second displays sequentially and repeatedly **([0059] a user can more easily apply touch gestures, such as ("drag and drop," "pinch to zoom," etc.) across flush displays; [0066] For example, with reference to FIG. 6, in response to the detection of a multi-touch "pinch" gesture (two fingers touching the display moving toward each other) on the first display 610, the mobile device 600 can update both the first and second displays 610 and 660 to zoom out from the selected map area. The mobile device 600 can zoom in, zoom out, rotate the map or perform other operations in response to multi-finger gestures detected on the first display 610, the second display 660 or both displays (e.g., one finger touching the first**

display and a second finger touching the second display)).

Claim Rejections - 35 USC § 103

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

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

Claims **5 and 14 are** rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Jones et al. (U.S. 2011/0230178)** in view of **Yan et al. (U.S. 2010/0305843)**.

With regard to claim 5, the limitations are addressed above. However, Jones does not teach:

- *wherein the visual indicator has a wave shape*

Yan teaches a system and method of presenting a graphical indicator on a user interface of a mobile device [abstract], wherein the visual indicator has a wave shape **([0024]; [0029] – [0030] curved shape of arrow 240; [claim 5] an indicator having a curved shape)**. Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains to have modified the indicator taught by

Jones, to have included the curved shape indicator taught by Yan, to have achieved a system and method of displaying a graphical indicator interchangeably between first and second displays of a multi-screen device.

With regard to claim 14, the device claim corresponds to the method claim 5, respectively, and therefore is rejected with the same rationale.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREA LEGGETT whose telephone number is (571)270-7700. The examiner can normally be reached on Mon.-Fri. 8:00 am - 5:00 pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt M. Kim can be reached on (571)272-4182. 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.

/ANDREA LEGGETT/
Primary Examiner, Art Unit 2171
January 26, 2014

Notice of References Cited	Application/Control No. 13/247,728	Applicant(s)/Patent Under Reexamination DE PAZ, ALEXANDER	
	Examiner ANDREA LEGGETT	Art Unit 2171	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2011/0230178	09-2011	Jones et al.	455/422.1
*	B	US-2010/0305843	12-2010	Yan et al.	701/201
	C	US-			
	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.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13247728	DE PAZ, ALEXANDER
	Examiner	Art Unit
	ANDREA LEGGETT	2171

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
715	761	1/26/2014	A.L.

SEARCH NOTES		
Search Notes	Date	Examiner
East Search	1/26/2014	A.L.
Inventor Name Search (EAST)	1/26/2014	A.L.

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
370	255,338	5/24/13	MA

	/ANDREA LEGGETT/ Primary Examiner.Art Unit 2171

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

BIB DATA SHEET

CONFIRMATION NO. 9244

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
13/247,728	09/28/2011	715	2171	6583-69

APPLICANTS

INVENTORS

Alexander de Paz, Burlington, CANADA;

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

This appln claims benefit of 61/539,884 09/27/2011
and claims benefit of 61/458,150 11/17/2010
and claims benefit of 61/389,000 10/01/2010
and claims benefit of 61/389,117 10/01/2010
and claims benefit of 61/389,087 10/01/2010

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ****

10/13/2011

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☐ No Verified and Acknowledged /ANDREA C. LEGGETT/ Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		CANADA	25	17	3

ADDRESS

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

TITLE

DUAL SCREEN APPLICATION VISUAL INDICATOR

FILING FEE RECEIVED		
1250	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	214	"715/761".CCLS.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2014/01/26 19:34
L2	31	(("20060082518") or ("20060206825") or ("20080122796") or ("20080062625") or ("20080165144") or ("20080174570") or ("20090119678") or ("20090254861") or ("20100064244") or ("20100081475") or ("20100079355") or ("20100085274") or ("20100085382") or ("20100088532") or ("20100100842") or ("20100182247") or ("20100182265") or ("20100223553") or ("20100245209") or ("20100245256") or ("20100298032") or ("20100321275") or ("20110230178") or ("20120081270") or ("20120081277") or ("20120081302") or ("20120081400") or ("20120084674") or ("20120084693") or ("20120084720") or ("20120084722")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 19:46
L3	10	(("7996045") or ("20020097194") or ("20100137027") or ("20100182251") or ("20100227651") or ("20100280676") or ("20110128241") or ("20120246374") or ("20120297304") or ("20120299554")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 19:51
L4	20	(("6919864") or ("7289083") or ("8228292") or ("8261213") or ("8289292") or ("20060211454") or ("20070198948") or ("20080059915") or ("20090235203") or ("20090262074") or ("20100088634") or ("20100245240") or ("20100304791") or ("20110175805") or ("20110187662") or ("20110209058") or ("20110210922") or ("20110239142") or ("20120005602") or ("20120280924") or ("2013012025~")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 19:53
L5	18	(("6331840") or ("6545669") or ("7839419") or ("8356258") or ("20030059003") or ("20050289478") or ("20060012951") or ("20060227106") or ("20080036743") or ("20090291760") or ("20090298548") or ("20100064536") or ("20100162128") or ("20100164836") or ("20100211872") or ("20100262554") or ("20100313156") or ("20110025625")).PN. or ((2011/0074717) or (2011/0107272) or (2011/0157057) or (2012/0054401)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 19:56
S1	64	((ALEXANDER) near2 ("DE PAZ")).INV.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2014/01/25 20:10
S2	2	"US 20120084676"	US-	ADJ	OFF	2014/01/25

			PGPUB; USPAT; USOCR; DERWENT			20:12
S3	5	(("20100245256") or ("20100245209") or ("20080062625") or ("20080165144") or ("20100085382")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/25 20:22
S4	2	(("20100182265") or ("20100298032")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/25 20:30
S5	1	("20110230178").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/25 20:40
S6	51	wave shape with indicator	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:32
S7	26	wave shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:36
S8	7	curve shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:38
S9	103	(curve or curvy) with shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:39
S10	7	(curve or curvy) shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:39
S11	4	loop shape with (pointer or cursor)	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:42
S12	3	loop shape with indicator	US-PGPUB; USPAT; USOCR; DERWENT	ADJ	OFF	2014/01/25 22:42
S13	1	("20100305843").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/01/26 18:24

EAST Search History (Interference)

< This search history is empty>

1/26/2014 8:01:00 PM
C:\Users\aleggett\Documents\EAST\Workspaces\13-247728.wsp

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
(Use as many sheets as necessary)				Art Unit	2171
				Examiner Name	Andrea C Leggett
Sheet	1	of	2	Attorney Docket Number	6583-69

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	7996045	08/09/2011	Bauer et al.	
	2	2002/0097194	07/25/2002	Uchida et al.	
	3	2010/0137027	06/03/2010	Kim	
	4	2010/0182251	07/22/2010	Hong et al.	
	5	2010/0227651	09/09/2010	Kim	
	6	2010/0280676	11/04/2010	Pabon et al.	
	7	2011/0128241	06/02/2011	Kang et al.	
	8	2012/0246374	09/27/2012	Fino	
	9	2012/0297304	11/22/2012	Maxwell	
	10	2012/0299554	11/29/2012	Kruglick	

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.
	11	"Basics Guide Kyocera Echo," Sprint Corporation, Jun. 22, 2011, accessed Nov. 27, 2013 [web.archive.org/web/20110622191751/http://support.sprint.com/support/device/Kyocera/Kyocera_Echotrade-dvc4820001prd] 161 pages
	12	Official Action for U.S. Patent Application No. 13/247,359, mailed Nov. 21, 2013 (Attorney's Ref. No. 6583-44) 11 pages
	13	Official Action for U.S. Patent Application No. 13/247,787, mailed Nov. 15, 2013 (Attorney's Ref. No. 6583-46) 18 pages
	14	Official Action for U.S. Patent Application No. 13/247,823, mailed Oct. 11, 2013 (Attorney's Ref. No. 6583-49) 19 pages
	15	Official Action for U.S. Patent Application No. 13/247,514, mailed Oct. 11, 2013 (Attorney's Ref. No. 6583-51) 16 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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.L./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C Leggett
Sheet	2	of	2	Attorney Docket Number	6583-69

	16	Official Action for U.S. Patent Application No. 13/248,199, mailed Oct. 01, 2013 (Attorney's Ref. No. 6583-71) 16 pages
	17	Official Action for U.S. Patent Application No. 13/248,199, mailed Dec. 23, 2013 (Attorney's Ref. No. 6583-71) 16 pages
	18	Official Action for U.S. Patent Application No. 13/341,634, mailed Nov. 19, 2013 (Attorney's Ref. No. 6583-108) 23 pages
	19	Official Action for U.S. Patent Application No. 13/341,666, mailed Dec. 17, 2013 (Attorney's Ref. No. 6583-107) 25 pages
	20	Official Action for U.S. Patent Application No. 13/222,888, mailed Jan. 06, 2014 (Attorney's Ref. No. 6583-50) 13 pages

Examiner Signature	/Andrea Leggett/	Date Considered	01/26/2014

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.L./

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	3

Complete if Known	
Application Number	13/247,728
Filing Date	September 28, 2011
First Named Inventor	Alexander de Paz
Art Unit	2171
Examiner Name	Andrea C Leggett
Attorney Docket Number	6583-69

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	2006/0082518	04/20/2006	Ram	
	2	2006/0206825	09/14/2006	Dorn et al.	
	3	2008/0122796	05/29/2008	Jobs et al.	
	4	2008/0062625	03/13/2008	Batio	
	5	2008/0165144	07/10/2008	Forstall et al.	
	6	2008/0174570	07/24/2008	Jobs et al.	
	7	2009/0119678	05/07/2009	Shih et al.	
	8	2009/0254861	10/08/2009	Seetharamakrishnan et al.	
	9	2010/0064244	03/11/2010	Kilpatrick, II et al.	
	10	2010/0081475	04/01/2010	Chiang et al.	
	11	2010/0079355	04/01/2010	Kilpatrick, II et al.	
	12	2010/0085274	04/08/2010	Kilpatrick, II et al.	
	13	2010/0085382	04/08/2010	Lundqvist et al.	
	14	2010/0088532	04/08/2010	Pollock et al.	
	15	2010/0100842	04/22/2010	Kim	
	16	2010/0182247	07/22/2010	Petschnigg et al.	
	17	2010/0182265	07/22/2010	Kim et al.	
	18	2010/0223553	09/02/2010	Madden	
	19	2010/0245209	09/30/2010	Miller et al.	
	20	2010/0245256	09/30/2010	Estrada et al.	
	21	2010/0298032	11/25/2010	Lee et al.	
	22	2010/0321275	12/23/2010	Hinckley et al.	
	23	2011/0230178	09/22/2011	Jones et al.	
	24	2012/0081270	04/05/2012	Gimpl et al.	
	25	2012/0081277	04/05/2012	de Paz	
	26	2012/0081302	04/05/2012	Gimpl et al.	
	27	2012/0081400	04/05/2012	Schrock et al.	
	28	2012/0084674	04/05/2012	Visosky	
	29	2012/0084693	04/05/2012	Sirpal et al.	
	30	2012/0084720	04/05/2012	Sirpal et al.	
	31	2012/0084722	04/05/2012	Cassar et al.	

Examiner Signature	/Andrea Leggett/	Date Considered	01/26/2014

*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. /A.L./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C Leggett
Sheet	2	of	3	Attorney Docket Number	6583-69

	32	2012/0174028	07/05/2012	Sirpal et al.	
	33	2013/0021262	01/24/2013	Chen	

UNPUBLISHED U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-kind Code[2] (if known)	Filing Date MM-DD-YYYY	Name of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	34	13/341634	12/30/2011	Selim	
	35	13/341666	12/30/2011	Selim	
	36	13/365148	02/02/2012	Reeves et al.	
	37	13/365153	02/02/2012	Reeves et al.	
	38	13/365157	02/02/2012	Reeves et al.	
	39	13/627680	09/26/2012	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.
	40	Google images, accessed Apr. 18, 2011, 6 pages
	41	"Lapdock™ for MOTOROLA ATRIX," at www.motorola.com/Consumers/US-EN/Consumer-Product-and-Services/Mobile..., accessed Apr. 18, 2011, 1 page
	42	"Motorola ATRIX 4G Laptop Dock Review," at www.phonearena.com/reviews/Motorola-ATRIX-4G-Laptop-Dock-Review_id2667, Mar. 2, 2011, 6 pages
	43	Website entitled, "Kyocera Echo," at www.echobykyocera.com/, 2011, 6 pages
	44	Website entitled, "Sony Tablet," at store.sony.com/webapp/wcs/stores/servlet/CategoryDisplay?catalogId=10551&storeId=10151&langId=-1&categoryId=8198552921644795521, 2011, 3 pages
	45	BURNS, "Motorola ATRIX 4G Laptop Dock Review," at www.androidcommunity.com/motorola-atrix-4g-laptop-dock-review-20110220/, Feb. 20, 2011, 5 pages

Examiner Signature	/Andrea Leggett/	Date Considered	01/26/2014

*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. /A.L./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
(Use as many sheets as necessary)				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C Leggett
Sheet	3	of	3	Attorney Docket Number	6583-69

	46	CATACCHIO, "This smartphone has two huge screens...that rotate," The Next Web at www.thenextweb.com/asia/2010/10/07/this-smartphone-has-two-huge-screens-that-rotate/, Jul. 21, 2011, 2 pages
	47	Harman03, "Kyocera Echo Dual-screen Android Phone," posted 4 weeks from Apr. 18, 2011, 3 pages
	48	HINCKLEY et al. "Codex: A Dual Screen Tablet Computer," CHI 2009 ~ New Mobile Interactions, Apr. 4-9, 2009, pages 1933-1942 (www.dgp.utoronto.ca/~ravin/papers/chi2009_codex.pdf)
	49	LEE "Developing Orientatin-Aware Android Application," Jun. 11, 2010, 9 pages (www.devx.com/wireless/Article/40792/1954)
	50	MARTELIN "Orientation Awareness In Declarative User Interface Languages for Mobile Devices: A Case Study and Evaluation," Jun. 01, 2010, 79 pages (lib.tkk.fi/Dipl/2010/um100291.pdf)
	51	STEIN, S., "How does the Motorola Atrix 4G Lapdock compare with a laptop?" Crave - CNET, at www.news.cnet.com/8301-17938_105-20031251-1.html, Feb. 9, 2011, 7 pages
	52	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US11/53849, mailed Feb. 27, 2012 (Attorney's Ref. No. 6583-26-PCT) 7 pages
	53	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US11/53884, mailed Feb. 28, 2012 (Attorney's Ref. No. 6583-44-PCT) 19 pages
	54	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US11/53914, mailed Feb. 21, 2012 (Attorney's Ref. No. 6583-46-PCT) 7 pages
	55	International Search Report and Written Opinion for Internatioanl (PCT) Patent Application No. PCT/US11/54032, mailed Feb. 22, 2012 (Attorney's Ref. No. 6583-48-PCT) 9 pages
	56	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US2011/052811, mailed Apr. 27, 2012 (Attorney's Ref. No. 6583-379-PCT) 14 pages
	57	Official Action for U.S. Patent Application No. 13/365,148, mailed Oct. 23, 2012 (Attorney's Ref. No. 6583-183) 10 pages

Examiner Signature	/Andrea Leggett/	Date Considered	01/26/2014

*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. /A.L./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C Leggett
Sheet	1	of	2	Attorney Docket Number	6583-69

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	6919864	07/19/2005	Macor	
	2	7289083	10/30/2007	Canova, Jr.	
	3	8228292	07/24/2012	Ruiz et al.	
	4	8261213	09/04/2012	Hinckley et al.	
	5	8289292	10/16/2012	Sip	
	6	2006/0211454	09/21/2006	Park et al.	
	7	2007/0198948	08/23/2007	Toriyama	
	8	2008/0059915	03/06/2008	Boillot	
	9	2009/0235203	09/17/2009	Iizuka	
	10	2009/0262074	10/22/2009	Nasiri et al.	
	11	2010/0088634	04/08/2010	Tsuruta et al.	
	12	2010/0245240	09/30/2010	Heringslack et al.	
	13	2010/0304791	12/02/2010	Lee et al.	
	14	2011/0175805	07/21/2011	Rottler et al.	
	15	2011/0187662	08/04/2011	Lee et al.	
	16	2011/0209058	08/25/2011	Hinckley et al.	
	17	2011/0210922	09/01/2011	Griffin	
	18	2011/0239142	09/29/2011	Steeves et al.	
	19	2012/0005602	01/05/2012	Anttila et al.	
	20	2012/0280924	11/08/2012	Kummer et al.	
	21	2013/0120251	05/16/2013	Lee 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 Signature	/Andrea Leggett/	Date Considered	01/26/2014

*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. /A.L./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C Leggett
Sheet	2	of	2	Attorney Docket Number	6583-69

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.
	22	Notice of Allowance for U.S. Patent Application No. 13/247,817, mailed Sep. 11, 2013 (Attorney's Ref. No. 6583-26) 12 pages
	23	Official Action for U.S. Patent Application No. 13/222,888, mailed Sep. 06, 2013 (Attorney's Ref. No. 6583-50) 19 pages
	24	Official Action for U.S. Patent Application No. 13/365,157, mailed Aug. 15, 2013 (Attorney's Ref. No. 6583-181) 19 pages
	25	Official Action for U.S. Patent Application No. 13/365,153, mailed Aug. 16, 2013 (Attorney's Ref. No. 6583-182) 18 pages
	26	Official Action for U.S. Patent Application No. 12/948,682, mailed Aug. 02, 2013 (Attorney's Ref. No. 6583-379) 14 pages

Examiner Signature	/Andrea Leggett/	Date Considered	01/26/2014

*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. /A.L./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
(Use as many sheets as necessary)				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C. Leggett
Sheet	1	of	2	Attorney Docket Number	6583-69

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	6331840	12/18/2001	Nielson et al.	
	2	6545669	04/08/2003	Kinawi et al.	
	3	7839419	11/23/2010	Hanggie et al.	
	4	8356258	01/15/2013	Matthews et al.	
	5	2003/0059003	03/27/2003	Lewis	
	6	2005/0289478	12/29/2005	Landman et al.	
	7	2006/0012951	01/19/2006	Kim	
	8	2006/0227106	10/12/2006	Hashimoto et al.	
	9	2008/0036743	02/14/2008	Westerman et al.	
	10	2009/0291760	11/26/2009	Hepburn et al.	
	11	2009/0298548	12/03/2009	Kim et al.	
	12	2010/0064536	03/18/2010	Caskey et al.	
	13	2010/0162128	06/24/2010	Richardson et al.	
	14	2010/0164836	07/01/2010	Liberatore	
	15	2010/0211872	08/19/2010	Rolston et al.	
	16	2010/0262554	10/14/2010	Elliott	
	17	2010/0313156	12/09/2010	Louch et al.	
	18	2011/0025625	02/03/2011	Hirako	
	19	2011/0074717	03/31/2011	Yamashita	
	20	2011/0107272	05/05/2011	Aguilar	
	21	2011/0157057	06/30/2011	Hata	
	22	2012/0054401	03/01/2012	Cheng	

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]
	23	EP 1775925	04/18/2007	LG ELECTRONICS INC		

Examiner Signature	/Andrea Leggett/	Date Considered	01/26/2014

*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. /A.L./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C. Leggett
Sheet	2	of	2	Attorney Docket Number	6583-69

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.
	24	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2011/053849, mailed Apr. 11, 2013 (Attorney's Ref. No. 6583-26-PCT) 6 pages
	25	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2011/053914, mailed Apr. 11, 2013 (Attorney's Ref. No. 6583-46-PCT) 6 pages
	26	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2011/054032, mailed Apr. 11, 2013 (Attorney's Ref. No. 6583-48-PCT) 8 pages
	27	Extended Search Report for European Patent Application No. 12180497.5, dated Nov. 21, 2012 (Attorney's Ref. No. 6583-50-EP) 8 pages
	28	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2011/052811, mailed Apr. 11, 2013 (Attorney's Ref. No. 6583-379-PCT) 6 pages
	29	Official Action for U.S. Patent Application No. 13/247,787, mailed Feb. 28, 2013 (Attorney's Ref. No. 6583-46) 16 pages
	30	Official Action for U.S. Patent Application No. 13/247,787, mailed Jun. 17, 2013 (Attorney's Ref. No. 6583-46) 20 pages
	31	Official Action for U.S. Patent Application No. 13/247,823, mailed May 23, 2013 (Attorney's Ref. No. 6583-49) 20 pages
	32	Official Action for U.S. Patent Application No. 13/247,514, mailed Jun. 17, 2013 (Attorney's Ref. No. 6583-51) 30 pages
	33	Official Action for U.S. Patent Application No. 13/365,148, mailed Mar. 28, 2013 (Attorney's Ref. No. 6583-183) 15 pages
	34	Official Action for U.S. Patent Application No. 13/248,199, mailed Jun. 14, 2013 (Attorney's Ref. No. 6583-71) 15 pages

Examiner Signature	/Andrea Leggett/	Date Considered	01/26/2014

*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. /A.L./

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13247728	DE PAZ, ALEXANDER
	Examiner	**Art Unit**
	ANDREA LEGGETT	2171

✓	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	01/26/2014								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	✓								
	16	✓								
	17	✓								

Ex. 1002, p. 217
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
(Use as many sheets as necessary)				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C Leggett
Sheet	1	of	2	Attorney Docket Number	6583-69

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	7996045	08/09/2011	Bauer et al.	
	2	2002/0097194	07/25/2002	Uchida et al.	
	3	2010/0137027	06/03/2010	Kim	
	4	2010/0182251	07/22/2010	Hong et al.	
	5	2010/0227651	09/09/2010	Kim	
	6	2010/0280676	11/04/2010	Pabon et al.	
	7	2011/0128241	06/02/2011	Kang et al.	
	8	2012/0246374	09/27/2012	Fino	
	9	2012/0297304	11/22/2012	Maxwell	
	10	2012/0299554	11/29/2012	Kruglick	

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.
	11	"Basics Guide Kyocera Echo," Sprint Corporation, Jun. 22, 2011, accessed Nov. 27, 2013 [web.archive.org/web/20110622191751/http://support.sprint.com/support/device/Kyocera/Kyocera_Echotrade-dvc4820001prd] 161 pages
	12	Official Action for U.S. Patent Application No. 13/247,359, mailed Nov. 21, 2013 (Attorney's Ref. No. 6583-44) 11 pages
	13	Official Action for U.S. Patent Application No. 13/247,787, mailed Nov. 15, 2013 (Attorney's Ref. No. 6583-46) 18 pages
	14	Official Action for U.S. Patent Application No. 13/247,823, mailed Oct. 11, 2013 (Attorney's Ref. No. 6583-49) 19 pages
	15	Official Action for U.S. Patent Application No. 13/247,514, mailed Oct. 11, 2013 (Attorney's Ref. No. 6583-51) 16 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.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
(Use as many sheets as necessary)				Art Unit	2171
				Examiner Name	Andrea C Leggett
Sheet	2	of	2	Attorney Docket Number	6583-69

	16	Official Action for U.S. Patent Application No. 13/248,199, mailed Oct. 01, 2013 (Attorney's Ref. No. 6583-71) 16 pages
	17	Official Action for U.S. Patent Application No. 13/248,199, mailed Dec. 23, 2013 (Attorney's Ref. No. 6583-71) 16 pages
	18	Official Action for U.S. Patent Application No. 13/341,634, mailed Nov. 19, 2013 (Attorney's Ref. No. 6583-108) 23 pages
	19	Official Action for U.S. Patent Application No. 13/341,666, mailed Dec. 17, 2013 (Attorney's Ref. No. 6583-107) 25 pages
	20	Official Action for U.S. Patent Application No. 13/222,888, mailed Jan. 06, 2014 (Attorney's Ref. No. 6583-50) 13 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:	17839967
Application Number:	13247728
International Application Number:	
Confirmation Number:	9244
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Customer Number:	111285
Filer:	Douglas W. Swartz/Robert Roe-Pachirat
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-69
Receipt Date:	07-JAN-2014
Filing Date:	28-SEP-2011
Time Stamp:	14:31:55
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		6583-69_IDS_04.pdf	196470 478e06b8c222b9bd73ad23aeef4311af3a87a285	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:					
2	Non Patent Literature	Basicas_Guide_KYOCERA_ECHO.pdf	2406911 00765c41c28839dacbe427e031d27ffec32c686f	no	161
Warnings:					
Information:					
3	Non Patent Literature	6583-44_OA_11-21-2013.pdf	377526 c4b6808f831d382a19a1bbc696a608b3545e2c4e	no	11
Warnings:					
Information:					
4	Non Patent Literature	6583-46_OA_11-15-2013.pdf	666713 4f4f72b4bea50c95e91f12e26f5617f5c6459670	no	18
Warnings:					
Information:					
5	Non Patent Literature	6583-49_OA_10-11-2013.pdf	758518 340927dd93faa011027523a854e6c1fc7c9742ec	no	19
Warnings:					
Information:					
6	Non Patent Literature	6583-51_OA_10-11-2013.pdf	503363 fc7828f317e17d2908517c0e483a002ede770e40	no	16
Warnings:					
Information:					
7	Non Patent Literature	6583-71_OA_10-01-2013.pdf	501398 e1f3b5646b8f5e586b3a1c209604e898759156e7	no	16
Warnings:					
Information:					
8	Non Patent Literature	6583-71_OA_12-23-2013.pdf	489220 08854d4d2d2de1a23b92e6e0a516f30cafb06a39	no	16
Warnings:					
Information:					

9	Non Patent Literature	6583-108_OA_11-19-2013.pdf	817595 d7535e743f4dc1b82b4bdf54c69ed1d1ba56cd87	no	23
Warnings:					
Information:					
10	Non Patent Literature	6583-107_OA_12-17-2013.pdf	941608 5df8b36f40b1e630cbfb3489bb76e51a3c68e189	no	25
Warnings:					
Information:					
11	Non Patent Literature	6583-50_OA_01-06-2014.pdf	500058 d6aca3e4573f3452ed9abe312fe5a0043aa75b8d	no	13
Warnings:					
Information:					
		Total Files Size (in bytes):	8159380		

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: 2171
Alexander de Paz	)	Confirmation No.: 9244
Serial No.: 13/247,728	)	Examiner: Andrea C Leggett
Filed: September 28, 2011	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-69	)	
Entitled: "Dual Screen Application Visual Indicator"	)	*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

Ex. 1002, p. 223
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

Ex. 1002, p. 224
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37,739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: January 07, 2014

Ex. 1002, p. 225
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
(Use as many sheets as necessary)				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C Leggett
Sheet	1	of	2	Attorney Docket Number	6583-69

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	6919864	07/19/2005	Macor	
	2	7289083	10/30/2007	Canova, Jr.	
	3	8228292	07/24/2012	Ruiz et al.	
	4	8261213	09/04/2012	Hinckley et al.	
	5	8289292	10/16/2012	Sip	
	6	2006/0211454	09/21/2006	Park et al.	
	7	2007/0198948	08/23/2007	Toriyama	
	8	2008/0059915	03/06/2008	Boillot	
	9	2009/0235203	09/17/2009	Iizuka	
	10	2009/0262074	10/22/2009	Nasiri et al.	
	11	2010/0088634	04/08/2010	Tsuruta et al.	
	12	2010/0245240	09/30/2010	Heringslack et al.	
	13	2010/0304791	12/02/2010	Lee et al.	
	14	2011/0175805	07/21/2011	Rottler et al.	
	15	2011/0187662	08/04/2011	Lee et al.	
	16	2011/0209058	08/25/2011	Hinckley et al.	
	17	2011/0210922	09/01/2011	Griffin	
	18	2011/0239142	09/29/2011	Steeves et al.	
	19	2012/0005602	01/05/2012	Anttila et al.	
	20	2012/0280924	11/08/2012	Kummer et al.	
	21	2013/0120251	05/16/2013	Lee 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 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.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C Leggett
Sheet	2	of	2	Attorney Docket Number	6583-69

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.
	22	Notice of Allowance for U.S. Patent Application No. 13/247,817, mailed Sep. 11, 2013 (Attorney's Ref. No. 6583-26) 12 pages
	23	Official Action for U.S. Patent Application No. 13/222,888, mailed Sep. 06, 2013 (Attorney's Ref. No. 6583-50) 19 pages
	24	Official Action for U.S. Patent Application No. 13/365,157, mailed Aug. 15, 2013 (Attorney's Ref. No. 6583-181) 19 pages
	25	Official Action for U.S. Patent Application No. 13/365,153, mailed Aug. 16, 2013 (Attorney's Ref. No. 6583-182) 18 pages
	26	Official Action for U.S. Patent Application No. 12/948,682, mailed Aug. 02, 2013 (Attorney's Ref. No. 6583-379) 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:	17020025
Application Number:	13247728
International Application Number:	
Confirmation Number:	9244
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Customer Number:	111285
Filer:	Douglas W. Swartz/Robert Roe-Pachirat
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-69
Receipt Date:	02-OCT-2013
Filing Date:	28-SEP-2011
Time Stamp:	14:54:54
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		IDS_03.pdf	506258 7515b377965e89b741552fa8bfd40292f927793d	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:					
2	Non Patent Literature	6583-26_NOA_09-11-2013.pdf	535564 7a5f0824c5bbbba1c4399f8ce565e7e23bdc211c	no	12
Warnings:					
Information:					
3	Non Patent Literature	6583-50_OA_09-06-2013.pdf	714874 5074a62879bc1f3cd7a745a3d1b5d145b8e229b9	no	19
Warnings:					
Information:					
4	Non Patent Literature	6583-181_OA_08-15-2013.pdf	554571 a7ff6b7486732685781a7089bfe1fde09ddc7d13	no	19
Warnings:					
Information:					
5	Non Patent Literature	6583-182_OA_08-16-2013.pdf	587895 da25e212b775614836cee45572404cb3e93f8762	no	18
Warnings:					
Information:					
6	Non Patent Literature	6583-379_OA_08-02-2013.pdf	504318 c0d303c562be487d8b57b26be9f32e87d8c73376	no	14
Warnings:					
Information:					
		Total Files Size (in bytes):	3403480		

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: 2171
Alexander de Paz	)	Confirmation No.: 9244
Serial No.: 13/247,728	)	Examiner: Andrea C Leggett
Filed: September 28, 2011	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-69	)	
Entitled: "Dual Screen Application Visual Indicator"	)	*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

Ex. 1002, p. 231
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

Ex. 1002, p. 232
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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: Douglas Swartz

Douglas W. Swartz
Registration No. 37,739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: Sept 25, 2013

Ex. 1002, p. 233
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
(Use as many sheets as necessary)				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C. Leggett
Sheet	1	of	2	Attorney Docket Number	6583-69

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	6331840	12/18/2001	Nielson et al.	
	2	6545669	04/08/2003	Kinawi et al.	
	3	7839419	11/23/2010	Hanggie et al.	
	4	8356258	01/15/2013	Matthews et al.	
	5	2003/0059003	03/27/2003	Lewis	
	6	2005/0289478	12/29/2005	Landman et al.	
	7	2006/0012951	01/19/2006	Kim	
	8	2006/0227106	10/12/2006	Hashimoto et al.	
	9	2008/0036743	02/14/2008	Westerman et al.	
	10	2009/0291760	11/26/2009	Hepburn et al.	
	11	2009/0298548	12/03/2009	Kim et al.	
	12	2010/0064536	03/18/2010	Caskey et al.	
	13	2010/0162128	06/24/2010	Richardson et al.	
	14	2010/0164836	07/01/2010	Liberatore	
	15	2010/0211872	08/19/2010	Rolston et al.	
	16	2010/0262554	10/14/2010	Elliott	
	17	2010/0313156	12/09/2010	Louch et al.	
	18	2011/0025625	02/03/2011	Hirako	
	19	2011/0074717	03/31/2011	Yamashita	
	20	2011/0107272	05/05/2011	Aguilar	
	21	2011/0157057	06/30/2011	Hata	
	22	2012/0054401	03/01/2012	Cheng	

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]
	23	EP 1775925	04/18/2007	LG ELECTRONICS INC		

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.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
				First Named Inventor	Alexander de Paz
(Use as many sheets as necessary)				Art Unit	2171
				Examiner Name	Andrea C. Leggett
Sheet	2	of	2	Attorney Docket Number	6583-69

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.
	24	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2011/053849, mailed Apr. 11, 2013 (Attorney's Ref. No. 6583-26-PCT) 6 pages
	25	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2011/053914, mailed Apr. 11, 2013 (Attorney's Ref. No. 6583-46-PCT) 6 pages
	26	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2011/054032, mailed Apr. 11, 2013 (Attorney's Ref. No. 6583-48-PCT) 8 pages
	27	Extended Search Report for European Patent Application No. 12180497.5, dated Nov. 21, 2012 (Attorney's Ref. No. 6583-50-EP) 8 pages
	28	International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US2011/052811, mailed Apr. 11, 2013 (Attorney's Ref. No. 6583-379-PCT) 6 pages
	29	Official Action for U.S. Patent Application No. 13/247,787, mailed Feb. 28, 2013 (Attorney's Ref. No. 6583-46) 16 pages
	30	Official Action for U.S. Patent Application No. 13/247,787, mailed Jun. 17, 2013 (Attorney's Ref. No. 6583-46) 20 pages
	31	Official Action for U.S. Patent Application No. 13/247,823, mailed May 23, 2013 (Attorney's Ref. No. 6583-49) 20 pages
	32	Official Action for U.S. Patent Application No. 13/247,514, mailed Jun. 17, 2013 (Attorney's Ref. No. 6583-51) 30 pages
	33	Official Action for U.S. Patent Application No. 13/365,148, mailed Mar. 28, 2013 (Attorney's Ref. No. 6583-183) 15 pages
	34	Official Action for U.S. Patent Application No. 13/248,199, mailed Jun. 14, 2013 (Attorney's Ref. No. 6583-71) 15 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.

(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 1 775 925 A2

(12) EUROPEAN PATENT APPLICATION

(43) Date of publication:
18.04.2007 Bulletin 2007/16

(21) Application number: **06021529.0**

(22) Date of filing: **13.10.2006**

(51) Int Cl.:
H04M 1/725 *(2006.01)* ***H04M 1/247*** *(2006.01)*
H04M 1/02 *(2006.01)* ***G06F 1/16*** *(2006.01)*
H04M 1/04 *(2006.01)*

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR MK YU

(30) Priority: **14.10.2005 KR 20050097136**
11.11.2005 KR 20050108246

(71) Applicant: **LG Electronics Inc.**
Yongdungpo-Gu
Seoul 150-010 (KR)

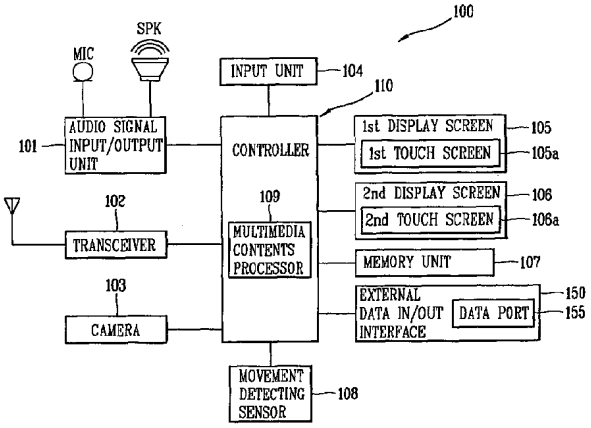
(72) Inventors:
- **Lee, Sang-Hyuck**
  Seoul (KR)
- **Cheon, Jee-Young**
  Dongjak-Gu,
  Seoul (KR)
- **Park, Yeon-Woo**
  Seocho-gu,
  Seoul (KR)

(74) Representative: **Katérle, Axel**
Wuesthoff & Wuesthoff
Patent- und Rechtsanwälte
Schweigerstraße 2
81541 München (DE)

(54) Method for displaying multimedia contents and mobile communications terminal capable of implementing the same

(57) The invention is directed to a method of displaying multimedia data and providing multitasking features and a mobile communications terminal capable of implementing the same; and cradle for the mobile communications terminal. A mobile communications terminal includes a transceiver, a memory, a first display unit, a second display unit, a processor, a sensor to detect a rotational movement of a body, and a cradle for displaying multimedia contents is provided. The display unit can display the multimedia data in a fixed viewing angle regardless of which direction a user rotates the terminal. A method comprises the steps of displaying multimedia data playback on at least one of a first and a second display screens, displaying information related to the multimedia data, on at least a portion of the at least one of the display screens, providing multimedia control functions and/or indications to the user in a minimally intrusive manner, and displaying a multimedia playback control menu on the at least one of the two display screens.

FIG. 1



EP 1 775 925 A2

Description

BACKGROUND OF THE INVENTION

1. Field of the Invention

[0001] The present invention is directed to a method for displaying multimedia contents, a mobile communications terminal capable of implementing the method, and cradle for the mobile terminal. Specifically, the invention relates to a method of changing an image view between a portrait view and a landscape view and displaying multitasking related information, and the mobile communications terminal capable of implementing the same.

2. Background of the Related Art

[0002] A mobile communications terminal has been proliferated and become one of the must have gadgets in a modern society as a numerous information and telecommunications industries are facing abrupt changes. Caused by increasing demands from users of the mobile terminals, the mobile communications terminal has been developed to provide various functions in addition to a conventional voice communications.

[0003] Recently, a mobile terminal capable of displaying multimedia contents (e.g., MP3 files, various still or video image files) has been developed and contemporary users of the mobile terminals has been accustomed to enjoy the multimedia contents regardless of locations. In accordance with the modern trend, the latest mobile terminal may provide not only a simple voice telephone function, but also a range of extra functions such as a game, a video-on-demand (VOD), Television broadcasting, electronic dictionary, and MP3 player.

[0004] Also, the modern users start demanding a multitasking function for all the available functions provided by their mobile terminals. Especially, it is highly solicited that more convenient user interface should be available to the users to easily enjoy the multimedia contents.

[0005] However, traditional mobile communications terminals providing the multimedia playback may only provide a display screen showing an image view orientation fixed with respect to the display screen in such a way that the screen image can't change from the portrait view to the landscape view when the user of the terminal rotates the body of the terminal from a portrait viewing angle to a landscape view angle, or vice versa. Namely, the traditional mobile communications terminals can simply display the screen image fixed with respect to the body of the terminals. The lack of providing a plurality of viewing ratios or aspects may not sufficiently satisfy needs of the users who wish to enjoy their visual entertainment in a various viewing ratios or aspects.

[0006] In addition, the current mobile terminals may not amply provide a user-friendly graphic interface to support a multitasking function for users. For example, when a user receives a Short Message Service (SMS) or Multimedia Messaging Service (MMS) message when playing a multimedia file in a folder-type or slider type mobile communications terminal, a screen displaying the multimedia playback may automatically be switched to display the SMS or MMS message after temporarily stopping the multimedia playback.

[0007] Furthermore, the mobile terminal user desires to enjoy the multimedia contents without worrying about a quick battery drain due to the fact that the multimedia playback in the mobile terminal tends to consume massive battery power.

SUMMARY OF THE INVENTION

[0008] The present invention provides a mobile terminal having at least two display screens and providing multimedia control functions and/or indications to the user in a minimally intrusive manner such that it can provide various viewing aspect ratios or viewing modes for displaying the multimedia contents in the mobile terminal, and the method thereof. In addition, the present invention provides an external control unit including an additional power supplying unit, an input unit to allow a user to enter at least one command to display the multimedia data, and a connector to be connected to a data port of the wireless communication apparatus to further control the multimedia such that the terminal can further provide media control functions and/or indications to the user in a minimally intrusive manner.

BRIEF DESCRIPTION OF THE DRAWINGS

[0009] The present invention will be described by the accompanying drawings that illustrate various exemplary embodiments. The illustrated embodiments are simply examples of the present invention and do not limit the scope thereof.

Fig. 1 shows an explanatory diagram of a mobile terminal in accordance with an embodiment of the present invention;

Fig. 2 is an exemplary perspective view of the mobile terminal in accordance with an embodiment of the present invention;

Figs. 3 A and B show exemplary views of the mobile terminal displaying multimedia contents on dual display screens in accordance with one embodiment of the present invention;

Fig. 4 is an exemplary view of the mobile terminal displaying multimedia contents in another display view in accordance with an embodiment of the present invention;

Fig. 5 shows the mobile terminal displaying the multimedia contents in the same manner when the mobile terminal switches its orientation 180° from that of the Fig. 4;

Fig. 6 is an exemplary view of the mobile terminal

Ex. 1002, p. 237
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

displaying that an main image of the first display screen expands to the second display screen in accordance with an embodiment of the present invention;

Fig. 7 is an exemplary view of the mobile terminal displaying that supplementary information regarding the multimedia contents of the first display screen expands to the second display screen in accordance with an embodiment of the present invention;

Fig. 8 shows an exemplary view of the first and second display screens respectively displaying different supplementary information regarding the multimedia contents;

Fig. 9 shows exemplary views of the mobile terminal displaying the expanded screen information of the second display screen returning to the first displaying screen of Figs. 6-8 in accordance with one embodiment of the invention;

Figs. 10 A through D depict exemplary views showing a process of handling an event message during displaying the multimedia contents according to an embodiment of the present invention;

Figs. 11 A through D show an exemplary process of sending the message of Fig. 10 during the multimedia display;

Fig. 12 is an exemplary perspective view of a cradle for the mobile terminal in accordance with an embodiment of the present invention;

Fig. 13 is an explanatory view of the cradle of Fig. 12; and

Fig. 14 is an exemplary diagram of the mobile terminal and the cradle according to one embodiment of the present invention.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

[0010] One aspect of the present invention relates to the recognition by the present inventors about the problems of the related art as described above, and further explained hereafter.

[0011] Fig. 1 shows an explanatory diagram of a mobile terminal in accordance with an embodiment of the present invention. The mobile terminal 100 can comprise a controller or processor 110, an input unit (e.g., key pads, key buttons, touch pads, and others) 104, a transceiver 102, an audio signal input/output unit (e.g., mike, speaker and so forth) 101, and an image capturing unit (i.e. camera) 103 as shown Fig.1. A detailed exemplary perspective view of the mobile terminal in accordance with an embodiment of the present invention can be further illustrated in Fig. 2. Here, the mobile terminal is a mobile phone, but the scope of the invention may be related to any mobile terminal or device, including a PDA, a notebook computer, Ultra Mobile PC (UMPC), and so forth. The mobile terminal may be operable in a plurality of wireless networks including WI-FI, WLAN, WIBRO, WIMAX, BREW, 3G networks and the like because certain concepts and features thereof are common to those of the present invention, and thus allow implementation in various types of communications schemes.

[0012] Fig. 2 shows the mobile terminal 100 comprising a first body 13 that includes a first display screen 105, and a second body 15 including a second display screen 106 and a data port (i.e., terminal or connector) 155. Here, the mobile terminal is a folder type comprising the first body 13, the second body 15 and a hinge or connector portion 17, wherein the first and second bodies are movable relative to each other and are configured to have a same display orientation. However, the scope of the present invention is not intended to be limited to any particular embodiment such as the folder type phone as described above. Moreover, the scope of the present invention may not be limited to any specific kind of the mobile terminal, and other various body types (e.g., bar type, slider, swivel, and others) can be considered to include the essential features of the present invention described in this. The data port 155 can be arranged at not only the second body 15, but also the first body 13 or the hinge portion 17.

[0013] The mobile terminal 100, can further comprise a position or movement (i.e., rotation or motion) detecting sensor 108, an external data in/out interface unit 150, memory or storage unit 107 and a controller 110 as shown in Fig. 1 in accordance with one embodiment of the present invention. The mobile terminal 100 may not be limited to comprise the elements described above, but also include many other limitations known in the art which are not shown or described in this. The input unit 104, the position or movement (i.e. rotation, motion) detecting sensor 108, the external data in/out interface unit 150, the memory or storage unit 107, or the controller 110 can be implemented either in the first body 13 or the second body 15. Also, the connector portion 17 can be configured to be arranged between the first body 13 and the second body 15 such that the first body 13 is flush with the second body 15 when the mobile terminal is fully opened (180 degree) as shown in Fig. 2. This continuous and flush open configuration of the mobile terminal can allow a user to enjoy multimedia contents in a flat TV like impression.

[0014] The external data in/out interface unit 150 may allow the mobile terminal 100 to be connected to an external device (not shown) via the data port 155. In particular, the external data in/out interface unit 150 can allow the mobile terminal 100 to be connected to a cradle 200 which can be described fully later in accordance with another embodiment of the present invention. In addition, the external data in/out interface unit 150 may allow the user to connect the mobile terminal 100 with an external audio output device (e.g., headphone, earphone, speaker and others) to output sound signals. The audio output device can be external to the mobile terminal or integrally implemented within the mobile terminal.

[0015] The memory unit 107 can store a plurality of operational programs and data, and particularly multime-

Ex. 1002, p. 238
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

dia contents or data. The memory unit 107 can be an internal memory type or external memory type. The scope of the present invention is not intended to be limited to above two types of memory unit to store data described herein. The controller 110 can monitor and control overall operations of the mobile terminal 110 and in particularly, can control a playback of the multimedia contents on the display screens 105, 106 in accordance with one embodiment of the present invention. Furthermore, the controller 110 can control the display of the multimedia contents stored in the memory unit 107 or the contents received via the transceiver 102. In addition, the controller 100 can include a multimedia content processor 109 that can be either integrally arranged (i.e., implemented in a same hardware configuration) in the processor 110 or separate entity from the controller.

[0016] The mobile terminal of the present invention provides the above-described features and advantages, and is capable of displaying or playing the multimedia contents or any necessary information to operate the mobile terminal on the first display screen 105 or the second display screen 106. The scope of the present invention can include the mobile terminal comprising the above-described features or advantages, but also other features (e.g., Digital Multimedia Broadcasting (DMB) or Digital Video Broadcasting-Handheld (DVB-H) broadcast receiver modules). Other communications or multimedia features can be also implemented and are within the scope of the present invention.

[0017] In accordance with some embodiments of the invention, the mobile terminal can include a sensor 108 to detect a motion (i.e., rotational movement) of a body of the mobile terminal, the sensor in cooperation with the controller 110 to detect the body orientation of the mobile terminal and change a display orientation of the two display screens 105, 106 as the user rotates the entire body of the terminal from vertical to horizontal direction or vice versa. The sensor 108 can comprise a position detecting sensor, geomagnetic sensor, and others and detect whether the mobile terminal rotates from the horizontal orientation to the vertical one or vice versa to change the display orientation on at least one of the dual display screens 105, 106 accordingly.

[0018] Also, the mobile terminal 100 can comprise the first display screen 105 to display general mobile terminal operations, multimedia contents, and information regarding those operations and the contents, and the second display screen 106 to perform input unit function (i.e., touch sensitive screen) and display various information and data. The first display screen 105 and the second display screen 106 can exchange each other's role (i.e., the first display screen 105 including the input unit function) and other various configurations of the display screens can be implemented and are within the scope of the present invention.

[0019] The above-described first display screen 105 and second screen 106 can be implemented in a same hardware configuration (i.e., one big display screen being partitioned to have separate display region) or be implemented as the separate independent units respectively. In accordance with some embodiments of the present invention, at least one display screen can be allocated to perform the input unit function by incorporating the touch sensitive screen. The input unit can be conventional key input units as understood by one skilled in the art and separately arranged from the display screens.

[0020] The above-described controller 110 controls the overall internal operation of the mobile terminal and can further control the display operation of the display screens 105 or 106.

[0021] In accordance with one embodiment of the present invention, the mobile terminal 100 can include the input unit 104 being an independent feature arranged on the body of the terminal or being implemented in the same hardware configuration of the touch sensitive screen of at least one of the display screens 105, 106. When the input unit 104 is implemented as a touch sensitive input unit (i.e., part of the touch sensitive screen), the controller 110 can receive signals inputted by the touch sensitive input unit 104 and expand the screen information displayed on the first display screen 105 to the second display screen 106 (i.e., the second display screen 106 displaying the same screen information of the first display screen 105 simultaneously), or return to the default display by displaying the screen information on only one display screen if the both display screens have been displaying the same. The order of expansion or returning to the default display is not limited to the above-described manner, but any displaying order or process can be within the scope of the present invention.

[0022] According to some embodiments of the present invention, the input unit 104 can comprise one of the group including a touch wheel, a touch pad, a jog dial, a jog shuttle, a key pad and so forth. As described earlier, the input unit 104 can be independently arranged on the body of the terminal or be implemented together with the above-described touch sensitive screen of the display screen. The other different configurations of the input unit layout can be within the scope of the present invention.

[0023] In accordance with one embodiment of the present invention, the input unit 104 can be implemented as the touch sensitive input unit on at least one of the dual display screens 105, 106, and details can be described below.

[0024] Figs. 3A, B are exemplary views of the mobile terminal displaying multimedia contents on dual display screens 105, 106 in accordance with one embodiment of the present invention. The example of the embodiment of the present invention is directed to a music playback method, but an animation, a movie, photographic information and other media contents can be still within the scope of the present invention.

[0025] As shown in Fig. 3A or B, in accordance with an embodiment of the present invention, the first display screen 105 can display information regarding the multimedia playback function (e.g., various icons representing

Ex. 1002, p. 239
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

"Play", "Stop", "Record" "Erase", "Previous Song", "Next Song" and so forth) and information with respect to the multimedia contents (e.g., an artist name, a song title and a lyrics for each MP3 file; and a movie title, a subtitle and other text information for each movie file) (as used below, the information regarding the multimedia playback function and the information about the multimedia contents can be referred to as the information regarding the multimedia).

[0026] First, Fig. 3A is an exemplary view showing the process of selecting a music file, Fig. 3B is an exemplary view showing the process of performing the playback or play function for the selected file as described above, each figure showing the mobile terminal displaying the information regarding the multimedia in a conventional manner, a vertical display orientation. As shown in Fig. 3A, the first display screen 105 can display a list of music files and the second display screen 106 can display the menu screen for controlling the playback of the music files. In a general call mode, the second display screen 106 displays images of conventional keys or buttons for a voice call (e.g., "Talk", "End", "Menu" and numeric key pads) as shown in Fig. 2. However, in the multimedia play mode, the second display screen 106 can display images of keys or buttons (e.g., Up/Down Scroll Bar, Forward, Reverse or rewind, Play and so forth) for controlling the playback of the multimedia contents instead of the images in the general call mode. In addition, the control menu images on the second display screen 106 can provide a visual, audible or tactile feedback to echo each touch input of the user (i.e., highlighting each key or button image whenever the user touches it).

[0027] A Up/down scroll bar 201 allows the user to select a desired song from a music file list displayed on the first display screen 105 by moving a cursor up or down, and the user can use a Left/Right buttons 202 to move between different groups or folders to find a desired folder or to perform a fast/forward or rewind (reverse) forward of the selected music file. The user can touch or push a Play button 203 to run or play the selected music file. When the user actuates the Pay button 203, the mobile terminal 100 displays the screen information as shown in Fig. 3B.

[0028] As illustrated in Fig. 3B, auxiliary information (e.g., title, artist name, writer, and others) 204 regarding the selected music file along with images (or animation) of a music equalizer can be displayed on the first display screen 105, and the second display screen 106 can show more detailed information (e.g., lyrics) 205 regarding the selected music file, a play time (i.e., a present play time), and control menu key or button images (e.g., Play, Stop, Previous, and so forth) 206.

[0029] When the mobile terminal is playing a movie file or broadcasting file (e.g., DMB), the first display screen 105 can show the movie or broadcast program and the second display screen 106 can show the control button or key images (e.g., Channel selection, Volume, etc.) analogous to the music file control menu keys or buttons as described above.

[0030] While displaying the screen information as shown in Fig. 3B, the mobile terminal 100 can change a portrait view or a default display (or viewing) orientation (i.e., vertical) to a landscape view or a horizontal one to display the screen information in a wide screen aspect ratio when the movement detecting sensor 108 detects the rotational movement of the entire body of the mobile terminal as shown in Fig. 4. Here, the screen information displayed in the default viewing orientation on the first display screen 105 and the second display screen 106 can be simultaneously rotated in a same direction (e.g., clockwise or counterclockwise) to have the horizontal display direction. The viewing angle orientation change of the display screen can be executed when not only the detecting sensor 108 detects the movement, but also the user actuates a designated input unit for the display orientation change. In particular, the display orientation change can be subject to the number of actuating (or touching, pressing) the designated input unit or how long the user actuates or holds the designated input unit and the positioning sensor or geomagnetic sensor can be used to detect the rotational direction and position as described earlier. The specific input unit for changing the display (viewing angle) orientation can be arranged at not only on the touch sensitive screen of the display screens, but also on any outer surface of the first and second bodies (13, 14). Furthermore, the mobile terminal 100 can rotate the screen information on the display screens 105, 106 from the default display orientation to 90°or - 90° (i.e., clockwise or counterclockwise) and each screen information displayed on respective display screen can be swapped as the mobile terminal 100 rotates accordingly. Thus, whichever direction the user rotates the mobile terminal, when the user views the contents, the left side display screen or unit always displays the processed information (equalizer, video or audio information, or streaming video or audio data (e.g. DMB or DVB-H, satellite audio, etc.)), and the right side display unit shows the control menu (e.g., play, record, pause, etc.) or detailed information related to the information displayed on the left side display unit. This feature can accommodate either a left handed or right handed person by selecting the corresponding user preference from the menu.

[0031] After the multimedia contents start being displayed, the screen information of the playback control menu displayed on the second display screen 106 is no longer necessary. Accordingly, when a certain time lapses without receiving any input from the user after the user operates the control menu screen, the control menu can be adapted to disappear and the multimedia contents (or data) displayed on the first display screen 105 expand to the second display screen 106 to enable both the first and second display screens 105, 106 either to show the same multimedia contents or two or more different multimedia data simultaneously.

[0032] Figs. 6 through 8 show exemplary views of the

Ex. 1002, p. 240
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

mobile terminal displaying that a main image of the first display screen expands to the second display screen in accordance with an embodiment of the present invention. The main image of the first display screen 105 expanding to the second display screen 106 can comprise a zoom-in (or zoom-out) image of the original main image of the first display screen 105 to display any detail missing from the original main image as shown in Fig. 6 because the first display screen 105 may only display a portion of the original image. In addition, the auxiliary or related information 204 displayed on the first display screen 105 can be displayed on the second screen 106 in a bigger font size and the second screen 106 can display more detailed information than the initial auxiliary information 204 or different information. For example, the second screen 106 can display different information (e.g., play time) regarding the music file when the first screen 105 displays the same information (e.g., artist name and song title).

[0033] As shown in Fig. 9, the mobile terminal or communicator 100 can return to display an original screen aspect ratio/size in a case that the entire body of the mobile communicator rotates with respect to its center, or a certain dedicated button or the selected area of the touch screen is actuated while the media file is expanded to be displayed on both display units. As described below, as shown in Fig. 9, the screen information display on the second display screen 106 disappears, and the first screen 105 continues to show the same main image or multimedia contents and the second display screen 106 shows the control menu screen. When the user rotates the mobile terminal 100 either clockwise or counterclockwise to have a vertical display orientation, each display screen displays screen information accordingly as shown in Fig. 9. The scope of the present invention is not limited to the feature as described above and other different display configurations can be within the scope of the present invention.

[0034] In accordance with some embodiments of the present invention, the mobile terminal can perform multitask functions while playing the multimedia contents as shown in Figs. 10A-D. Figs. 10 A through D show exemplary views showing a process of an event message during displaying the multimedia contents (e.g., a movie file or broadcast program). The controller 110 can control overall operations of the first and second display screens 105, 106 according to various operation modes and in particular, display an event indicator on a portion of the at least one display screen when an event occurs while processing a current operation.

[0035] As shown in Fig. 10A, the first display 105 can display an event indicator 901 when the event occurs while the first display screen 105 is showing the multimedia content and the second display screen 106 is displaying the playback control menu for the multimedia content. The indicator 901 can provide a tactile, audible or visual (e.g., highlight, blinking) output or a combination thereof to the user when the event occurs. The indicator can be a text file, icon, image file, avatar or a photograph and the event can comprise an incoming call, an e-mail or text message, a multimedia messaging service (MMS) and a push-to-talk (PTT) message. However, the scope of the present invention is not intended to be limited to any particular embodiment such as the features as described above. Moreover, the scope of the present invention may not be limited to any specific kind of the event or indicator, and other multitask functions can be considered to include the essential features of the present invention described in this.

[0036] The indicator 901 is temporarily displayed on a portion of one of the first and second display screens 105, 106 and can be moved to the other area of the same display screen or the other display screen. According to one embodiment of the present invention, the indicator can be moved from the first display screen 105 to the second display screen 106, and the size or shape of the indicator can be changed during the move as shown in Fig. 10B. After the indicator moves to the second screen 106, it is displayed on a portion of the second screen.

[0037] When the indicator comprises an icon for an incoming text message or e-mail, for example, and the user touches or clicks the indicator icon displayed on the second screen 106 as shown in Fig. 10C, the first display screen 105 resume to show the multimedia content and the second display screen 106 displays the a content 902 of the text message and a control menu image for handling the text message or e-mail as shown in Fig. 10D.

[0038] Figs. 11A-D show exemplary views of process of sending the message of Figs. 10A-D during the multimedia display (i.e., multitasking). The process of creating or sending a message in one embodiment of the present invention is not indifferent from the conventional message handling method. That is, when the second display screen 106 shows a screen for inputting texts to create the message in Fig. 11 A, the user can send the message by actuating the SEND icon in Fig. 11 B to complete the message transmission as shown in Fig. 11C. After reading the message or sending the reply to the received mail as shown in Figs. 11 A-C, the second display screen 106 can return to display the default screen information (e.g., the multimedia playback control menu screen as described above) as shown in Fig. 11 D.

[0039] In accordance with yet another aspect of the invention, the mobile terminal 100 can include a cradle 200 as shown in Figs. 12-14 and a cradle 200 for the mobile terminal 100 can comprise a power source supply unit 210, speaker unit 220, control input units 230 for controlling functions of the mobile terminal 100, a connector 240, and a housing 250.

[0040] The power source supply unit 210 can provide external power source to the mobile terminal 100 mounted or connected to the cradle 200. The speaker unit 220 can output sounds upon receiving audio signals via the connector 240 from the mobile terminal 100 connected to the cradle 200. The control input units 230 allows the user to control a certain functions or operations of the mobile terminal 100 at the cradle 200. In particular, the

Ex. 1002, p. 241
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

user can actuate the control input units 230 to execute a certain multimedia playback control functions (i.e., "Play", "Stop", "Pause", and others). Accordingly, the user can control the playback or display of the multimedia contents or other mobile terminal programs of the mobile terminal 100 at the cradle 200 (i.e., the user doesn't have to interrupt the movie or music program displayed on both display screens in the landscape view, thus the cradle provides a minimally intrusive means to control the multimedia playback) while seamlessly providing electrical power to the mobile terminal 100.

[0041] The connector 240 can be connected to the data port 155 of the mobile terminal 100 to receive and send a certain signals (e.g., power, audio, video, control signal, and so forth) with respect to the mobile terminal 100 when the mobile terminal 100 is connected to the cradle 200. The housing 250 can provide a structural support to the cradle 200 such that the mobile terminal can be safely received or mounted by the cradle 200. In addition, the housing 250 can be configured to form such that the connector 240 is arranged at the suitable location at the cradle 200 to mate with the data port 155 of the mobile terminal 100 when connected to the cradle 200. As shown in Fig. 13, the housing 250 can be configured to form in such a way that the cradle 200 can connected to the mobile terminal or a wireless communication device that is opened flat to about 180 degrees in accordance with one embodiment of the present invention. However, the scope of the present invention is not intended to be limited to any particular cradle embodiment as described above. Moreover, the scope of the present invention may not be limited to any specific kind of the shape or configuration of the cradle and the mobile terminal, and other various body types can be considered to include the essential features of the present invention described in this.

[0042] In accordance with another aspect of the invention, the housing 250 can be installed at a car or other audio component systems. In addition, the cradle 200 can comprise a video/camera module to enable a video call or a large capacity internal battery for portability.

[0043] According to another aspect of the present invention, the mobile terminal can include more than two display screens. Further, the mobile terminal can comprise one lengthy flexible type display screen in such that the user can enjoy the multimedia contents in a landscape view without seam or break line in the middle of the screen when the terminal is opened flat to about 180 degrees.

[0044] As the present invention may be embodied in several forms without departing from the spirit or essential characteristics thereof, it should also be understood that the above-described embodiments are not limited by any of the details of the foregoing description, unless otherwise specified, but rather should be construed broadly within its spirit and scope as defined in the appended claims, and therefore all changes and modifications that fall within the metes and bounds of the claims, or equivalents of such metes and bounds are therefore intended to be embraced by the appended claims.

Claims

1. A wireless communication apparatus comprising:

   a memory device to store the multimedia data;
   a first display screen and a second display screen; and
   a processor in cooperation with the first and second display screens and the memory device to perform,

   displaying the multimedia data on the first display screen;
   displaying information related to the multimedia data on the second display screen; and
   displaying a multimedia control menu on at least one of

   the first and second display screens,

   wherein the first and second display screens are movable relative to each other and are configured to have a same display orientation.

2. The apparatus of claim 1, further comprising a controller for displaying at least one of the multimedia data stored in the memory device, received via a transceiver and provided from an external source.

3. The apparatus of claim 2, wherein the controller and the processor are configured to be implemented in a same hardware configuration.

4. The apparatus of claim 2, wherein when a certain time lapses without receiving any input from a user after the user operates the control menu, the control menu is adapted to disappear and the multimedia data displayed on the first display screen expands to the second display screen to enable both the first and second display screens to show the multimedia data.

5. The apparatus of claim 2, wherein the controller comprises at least one of the group comprising:

   an internal control unit and an external control unit, wherein the external control unit allows the user to control the playback of the multimedia data when the wireless communication apparatus is engaged with the external control unit.

6. The apparatus of claim 5, wherein the external control unit provides media control functions and/or indications to the user in a minimally intrusive manner.

Ex. 1002, p. 242
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

7. The apparatus of claim 6, wherein the external control unit further includes:

an additional power supplying unit;
an input unit to allow a user to enter at least one command to display the multimedia data; and
a connector to be connected to a data port of the wireless communication apparatus to further control the multimedia.

8. The apparatus of claim 6, wherein the minimally intrusive manner provides that the control menu disappears and the multimedia data displayed on the at least one display screen expands to the other display screen in such a way that both display screens can show the multimedia data when a certain time lapses without receiving any input from the user after the user operates the control menu.

9. The apparatus of claim 5, wherein the internal control unit comprises:

a graphical user interface (GUI) to allow the user to control the playback of the multimedia data, wherein the at least one display screen displaying the GUI resumes displaying the multimedia data or the information related to the multimedia data automatically if the GUI remains idle for a certain time.

10. The apparatus of claim 5, wherein the internal control unit comprises at least one of the group comprising: a touch wheel, a touch pad, a touch screen, a jog dial, and a keypad.

11. The apparatus of claim 1, further comprising: a sensor to detect a rotational movement of a body of the apparatus, the sensor in cooperation with the processor to change a display orientation of the two display screens as the user rotates the entire body of the apparatus.

12. The apparatus of claim 1, further comprising:

an actuating button located on the apparatus to be pressed by the user or a portion of a touch screen on the at least one display screen to be operated by the user so as to rotate an image orientation of the two display screens.

13. The apparatus of claim 7, wherein the display orientation of the first and second display screens are rotated clockwise or counterclockwise when the connector of the external control unit receives the data port of the wireless communication apparatus.

14. A wireless communication apparatus, comprising:

a body with a first portion and a second portion that are movable relative to each other, each portion having an inner display screen, whereby the body can be opened such that both inner display screens are visible, and closed such that only one or no inner display screen is visible;
a memory device to store multimedia data received by a transceiver or transferred from an external source; and
a processor cooperating with the display screens and the memory device to perform the steps of,

providing the multimedia data playback via one or both display screens and other output means,
displaying information related to the multimedia data, on at least a portion of one display screen, and
providing media control functions and/or indications to the user in a minimally intrusive manner.

15. The apparatus of claim 14, wherein the media control functions are temporarily displayed on at least a portion of one display screen or are provided on an external attachment device without being displayed

16. The apparatus of claim 15, wherein the external attachment device is a cradle capable of being connected to the wireless communication apparatus that is opened flat to about 180 degrees.

17. The apparatus of claim 15, further comprising a sensor to detect the rotation movement of the body when the body is changed to either a vertical viewing orientation or a horizontal viewing orientation.

18. The apparatus of claim 15, further comprising:

an actuating button located on the apparatus to be pressed by the user or a portion of a touch screen on the at least one display screen to be operated by the user.

19. The apparatus of claim 17, wherein the processor changes an image if the sensor detects the rotational movement of the body or the actuating button or the portion of the touch screen on the at least one display screen is operated by the user.

20. The apparatus of claim 15, wherein the indication is temporarily displayed on one display screen for only a limited time duration or until user selection thereof.

21. The apparatus of claim 20, wherein the indication and/or functions thereof subsequently displayed on a different display screen after lapse of the limited

Ex. 1002, p. 243
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

time duration or after user selection.

22. The apparatus of claim 20, wherein at least one display screen allows touch sensitive inputting.

23. The apparatus of claim 16, wherein the cradle further includes:

an additional power supplying unit;
an input unit to allow a user to enter at least one command to display the multimedia data; and
a connector to be connected to a data port of the wireless communication apparatus to further control the multimedia.

24. The apparatus of claim 16, wherein the minimally intrusive manner provides that the control menu is displayed temporarily and the multimedia data being displayed on the first display screen expands to the second display screen in such a way that both display screens can show the multimedia data when a certain time lapses without receiving any input from the cradle by the user.

25. A method of displaying multimedia data for a wireless communication apparatus, comprising:

displaying multimedia data playback on at least one of a first and a second display screens;
displaying information related to the multimedia data, on at least a portion of the at least one of the display screens;
providing multimedia control functions and/or indications to the user in a minimally intrusive manner;
displaying a multimedia playback control menu on the at least one of the two display screens; and
providing a plurality of display options to control the multimedia data being displayed.

26. The method of claim 25, wherein the providing the plurality of display options further comprises:

displaying the multimedia data playback on the first display screen and the information related to the multimedia data on the second display screen;
displaying the multimedia data playback or the information related to the multimedia data on both display screens respectively;
displaying the multimedia data on the first and second display screens so as to provide the multimedia playback in a widescreen aspect ratio; and
displaying an event indicator on a portion of the at least one display screen when an event occurs.

27. The method of claim 26, further comprising: temporarily displaying the multimedia control menu on the at least one display screen after displaying the multimedia data.

28. The method of claim 26, wherein when a certain time lapses without receiving any input from the user after the user operates the control menu, the control menu disappears and the multimedia data displayed on the first display screen expands to the second display screen in such a way that both display screens show the multimedia data.

29. The method of claim 26, further comprising:

allowing the user to operate a graphical user interface (GUI) to control the multimedia data in such as way that the at least one display screen displaying the GUI resumes displaying the multimedia data or the information related to the multimedia data automatically if the GUI remains idle for a certain time; and
allowing an external control unit to be connected to the wireless communication apparatus to supply an additional power source and to further control the multimedia data.

30. The method of claim 29, wherein the external control unit provides media control functions and/or indications to the user in the minimally intrusive manner.

31. The method of claim 25, further comprising:

detecting a rotational movement of a body of the apparatus; and
changing a display orientation of the first and second display screens according to the detecting result.

32. The method of claim 31, further comprising:

allowing the user to press an actuating button located on the apparatus or touch the corresponding icon on a touch screen on the at least one display screen to rotate the display orientation of the two display units.

33. The method of claim 31, wherein the display orientation of the first and second display screens is changed when a connector of the external control unit is connected to a data port of the wireless communication apparatus.

34. The method of claim 25, further comprising:

temporarily displaying an event indicator on a portion of the first display screen when the event occurs; and

Ex. 1002, p. 244
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

moving the indicator to the second display screen.

35. The method of claim 34, wherein the event comprises: an incoming call, an e-mail or a text message, a multimedia messaging service (MMS), and a push-to-talk (PTT) message.

36. The method of claim 34, further comprising:

providing a tactile, audible or visual output or a combination thereof to the user when the event occurs.

37. The method of claim 26, further comprising:

allowing the user to touch a display screen portion displaying the event indicator to operate the event, wherein the event and a control menu of the event are displayed on the at least one display screen.

38. The method of claim 37, wherein the control menu disappears and the multimedia data displayed on the at least one display screen expands to the other display screen in such a way that both display screens can show the multimedia data when a certain time lapses without receiving any input from the user after the user operates the control menu.

39. The method of claim 26, wherein the information related to the multimedia data comprises: a playback time, a time stamp of the multimedia data, and a name of the place showing where the multimedia data is made.

40. A wireless communication device comprising:

a transceiver to receive and transmit multimedia data;
a memory device to store the multimedia data;
a first display unit and a second display unit, wherein the first display unit is movable relative to the second display unit and the first and the second display units are configured to have a same display orientation; and
a processor in cooperation with the transceiver, the first and second display units, and the memory device to perform,

displaying the multimedia data or the information related to the multimedia data on the first and second display units simultaneously;
displaying the multimedia data on the first and second display screens so as to provide the multimedia playback in a widescreen aspect ratio; and
displaying an event indicator on a portion of the at least one display screen when an event occurs during the playback of the multimedia data.

41. A mobile communications terminal comprising:

a memory device to store multimedia data received by a transceiver or provided from an external source;
a first display unit and a second display unit, wherein the first and second display units are movable relative to each other and are configured to have a same display orientation; and
a processor in cooperation with the transceiver, the first and second display units, and the memory device to perform,

displaying the multimedia data on both the first and second display units respectively; and
displaying an event indicator on a portion of at least one of the first and second display units when an event occurs during displaying the multimedia data.

42. The terminal of claim 41, wherein the multimedia data is adapted to be displayed on both the first and second display units in one of various image orientations comprising a portrait view and landscape view.

43. The terminal of claim 41, wherein the event indicator is displayed on a portion of the first display unit and then the event indicator is configured to move from the first display unit to the second display unit when the event is occurred during displaying the multimedia data.

44. The apparatus of claim 43, wherein the event comprises: an incoming call, an e-mail or a text message, a multimedia messaging service (MMS), and a push-to-talk (PTT) message.

45. The apparatus of claim 44, wherein the event indicator provides a tactile, audible or visual output or a combination thereof to the user.

46. The apparatus of claim 44, wherein the at least one display screen further comprises a touch-sensitive portion to enable the user to touch a display screen portion displaying the event indicator to operate the event and wherein the event and a control menu of the event are displayed on the at least one display screen.

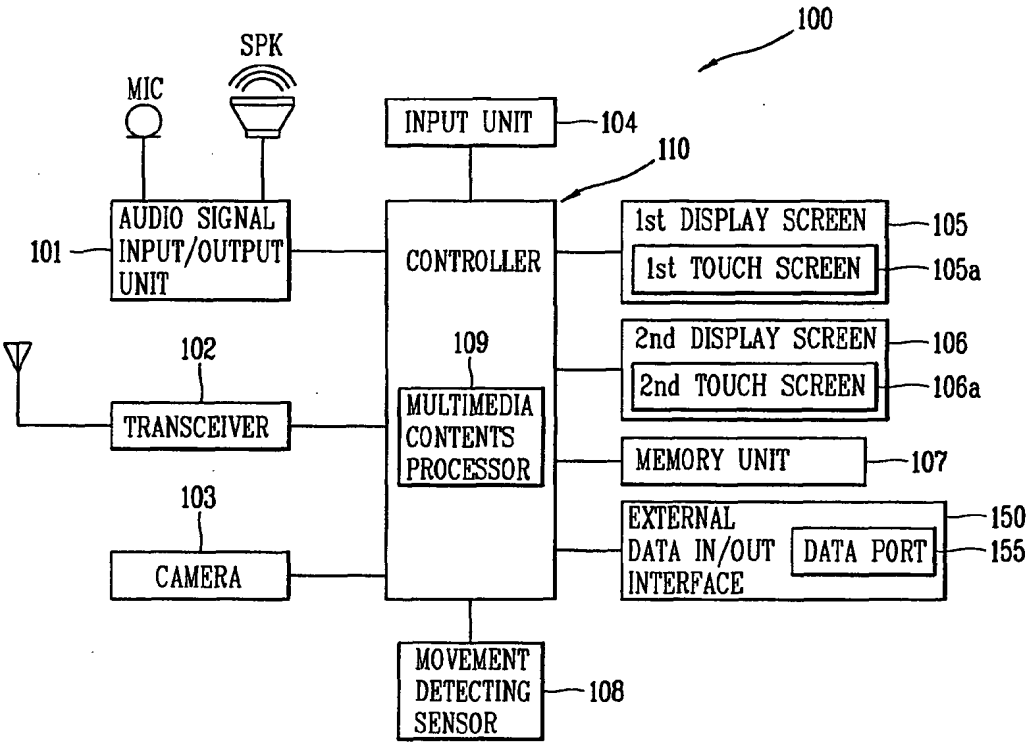
47. The apparatus of claim 46, wherein the control menu disappears and the multimedia data playback dis-

Ex. 1002, p. 245
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

played on the at least one display screen expands to the other display screen in such a way that both display screens can show the multimedia data when a certain time lapses without receiving any input from the user after the user operates the control menu.

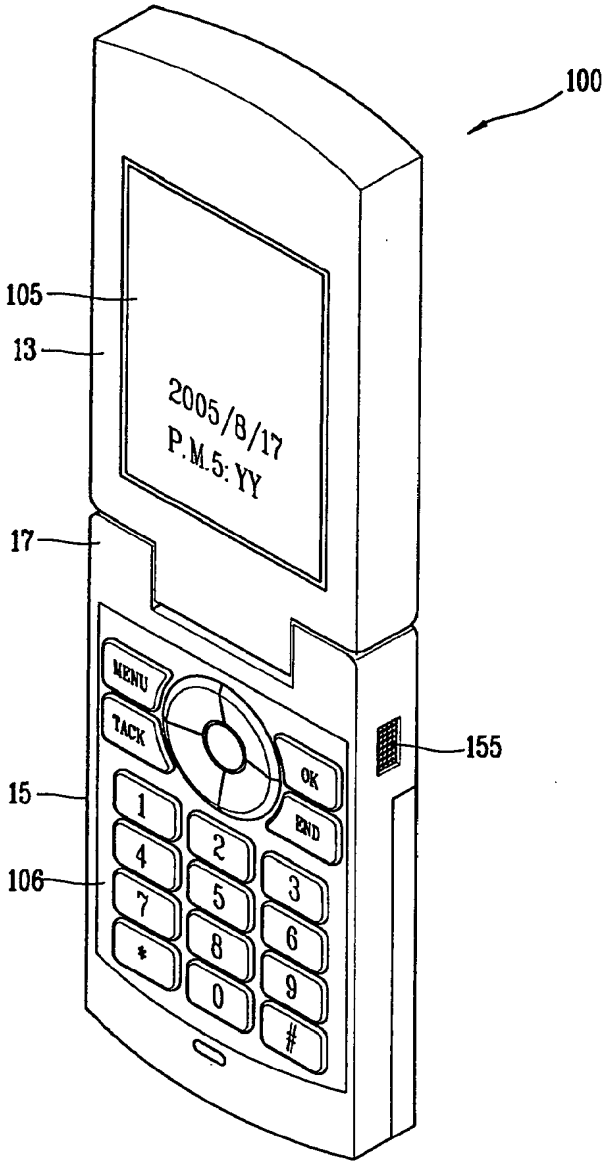
Ex. 1002, p. 246
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

FIG. 1



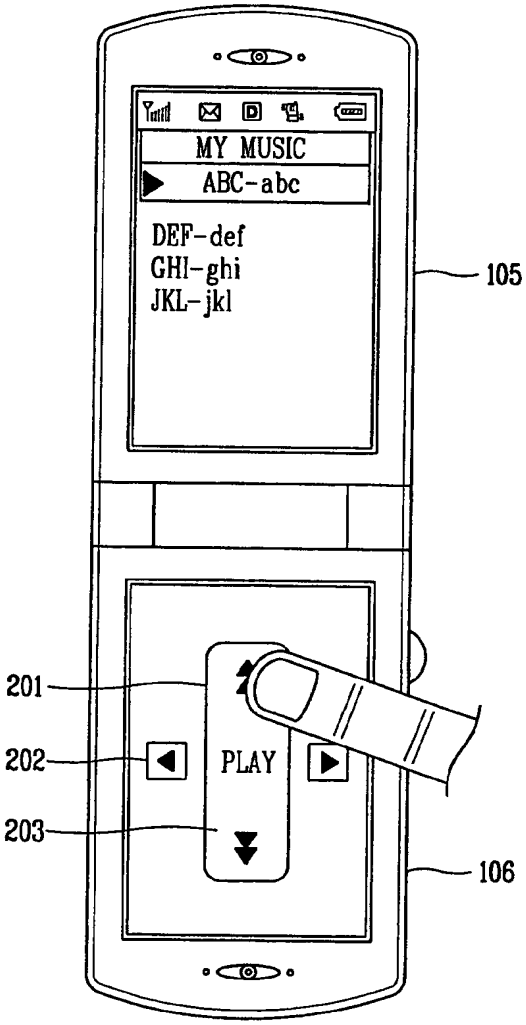
Ex. 1002, p. 247
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

FIG. 2



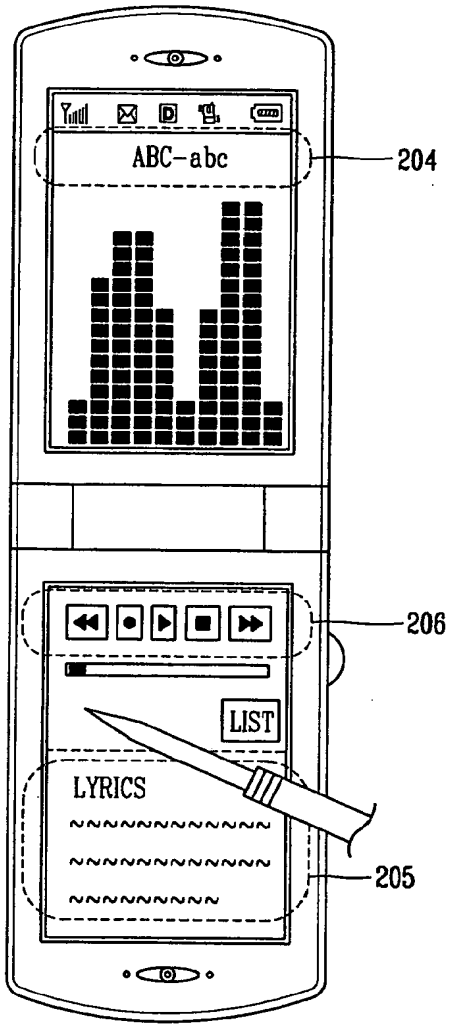
Ex. 1002, p. 248
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

FIG. 3A



Ex. 1002, p. 249
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

FIG. 3B



Ex. 1002, p. 250
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

FIG. 4

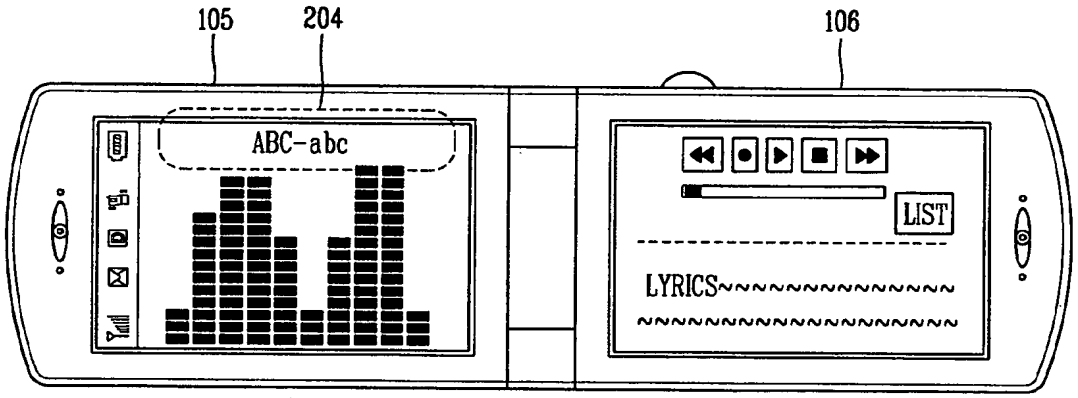
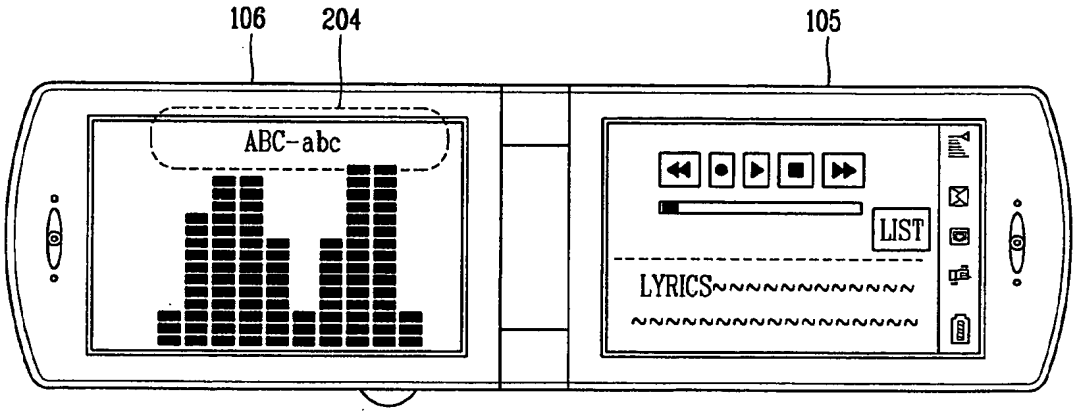


FIG. 5



Ex. 1002, p. 251
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

FIG. 6

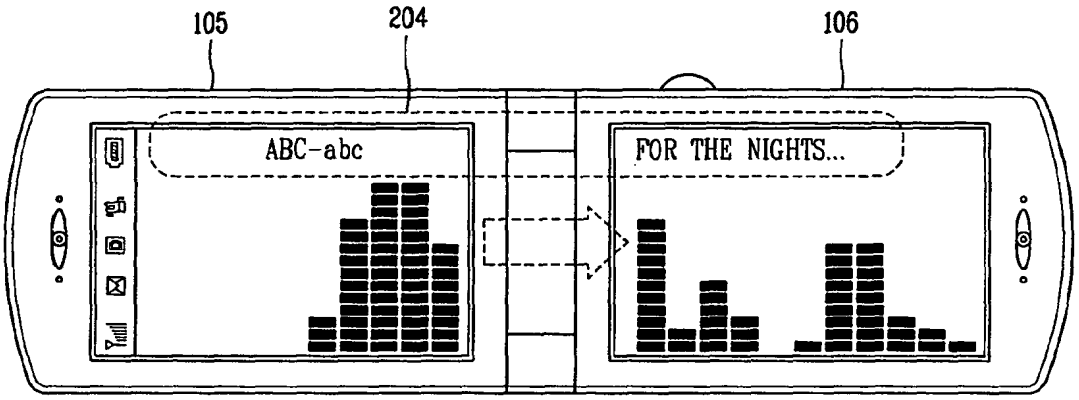
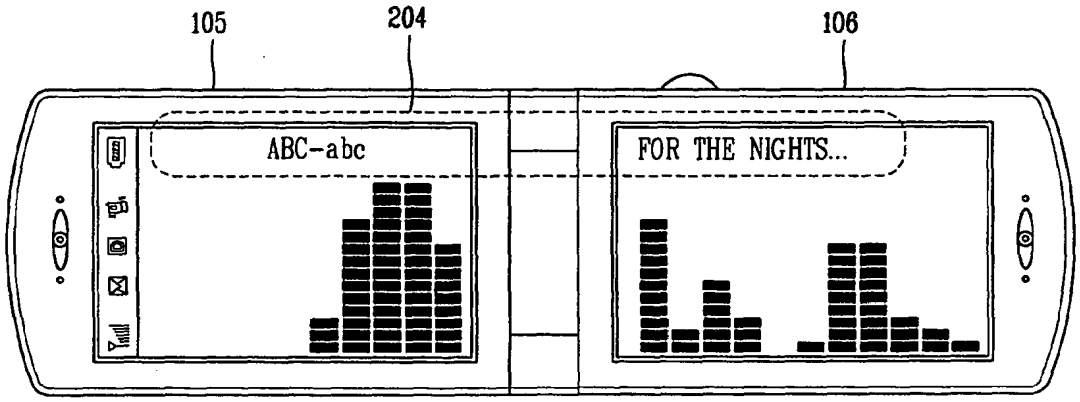
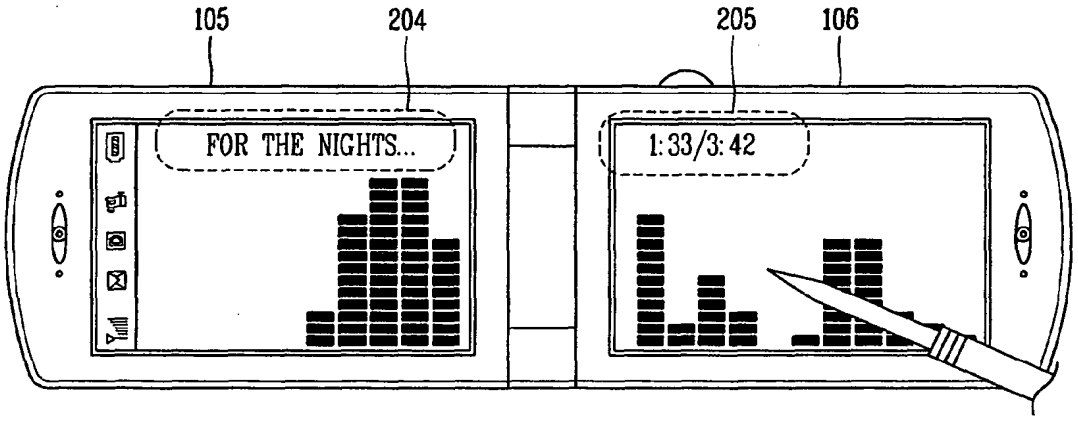


FIG. 7



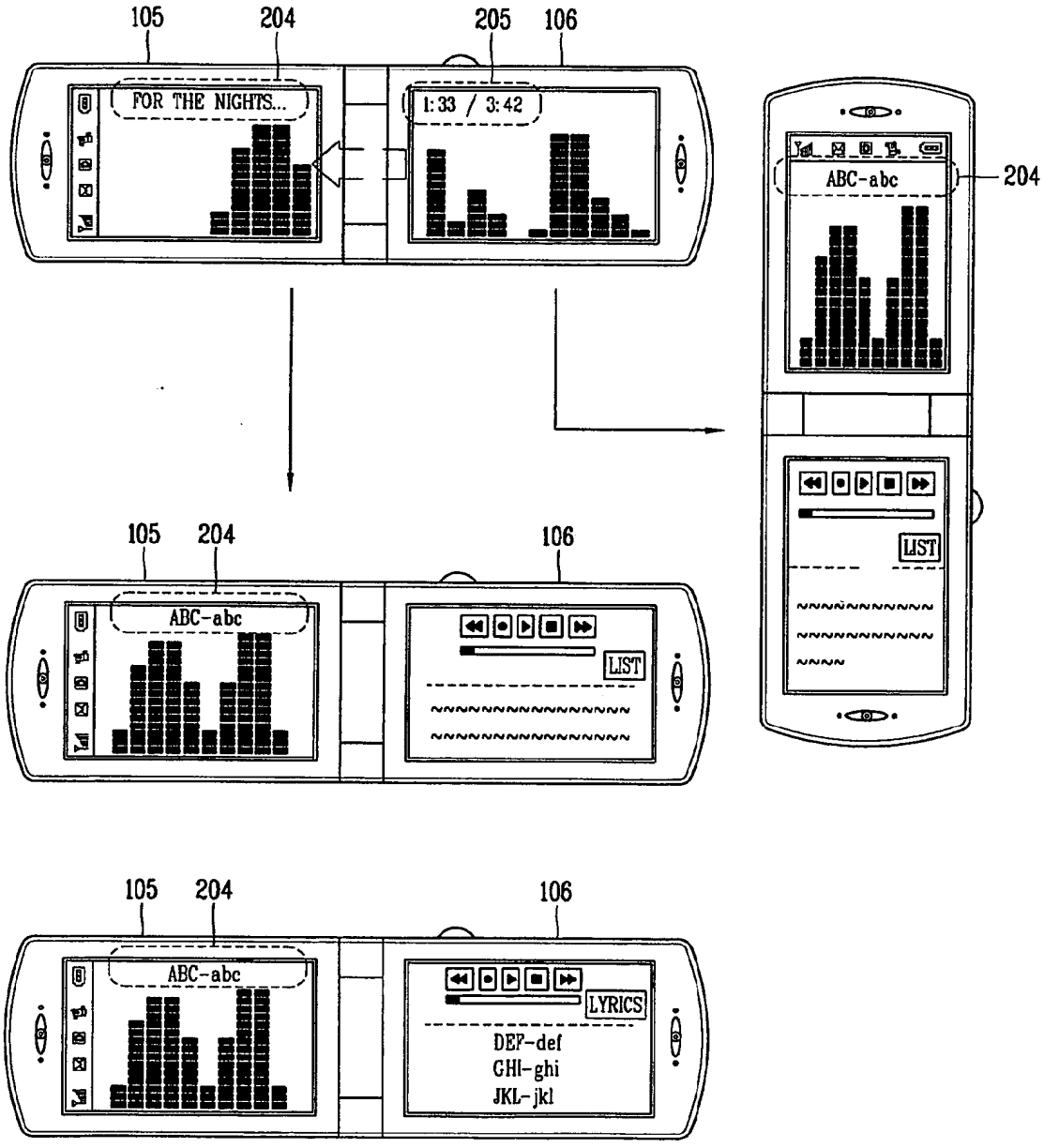
Ex. 1002, p. 252
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

FIG. 8



Ex. 1002, p. 253
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

FIG. 9



Ex. 1002, p. 254
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

FIG. 10A

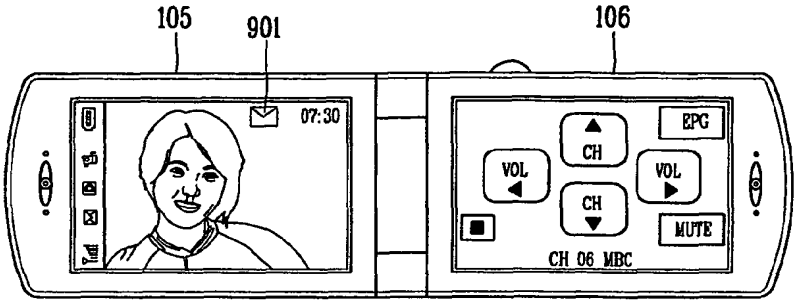


FIG. 10B

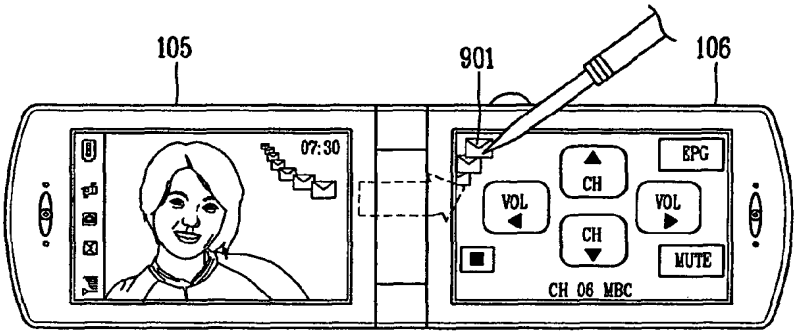


FIG. 10C

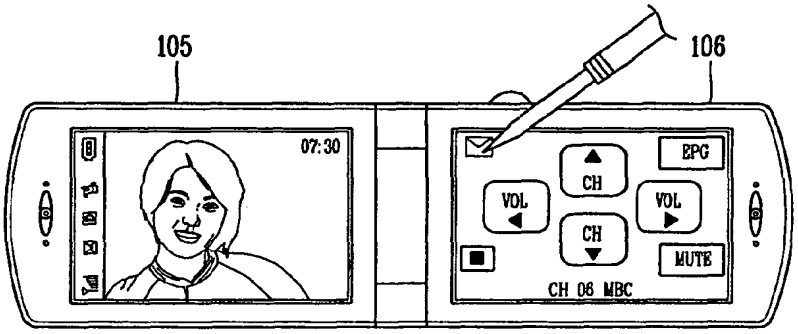
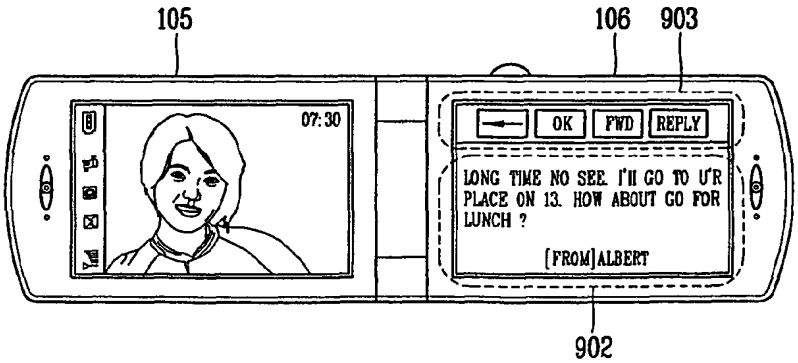


FIG. 10D



Ex. 1002, p. 255
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

FIG. 11A

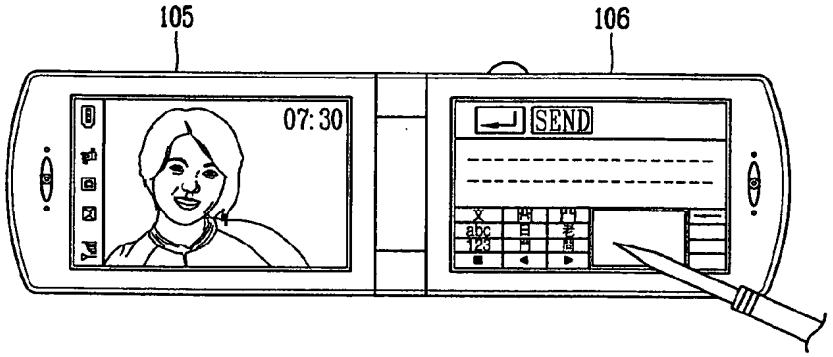


FIG. 11B

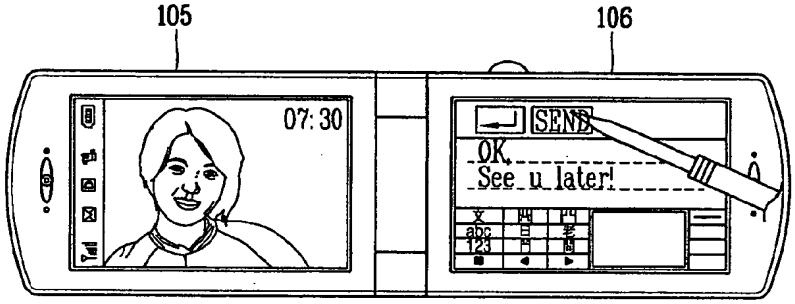


FIG. 11C

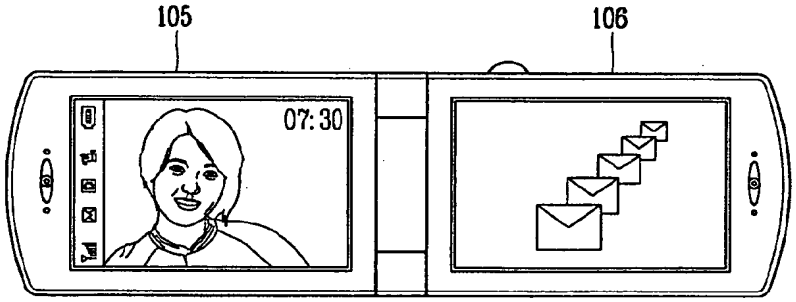
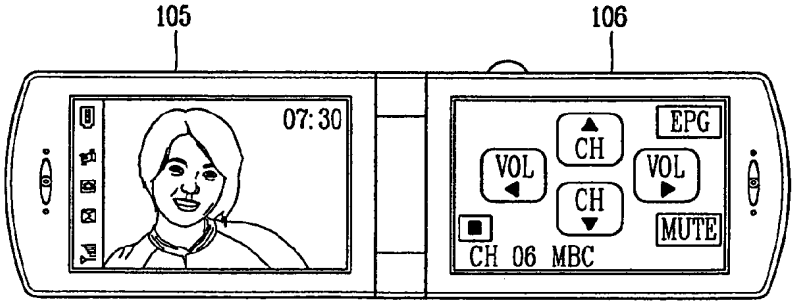


FIG. 11D



Ex. 1002, p. 256
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

FIG. 12

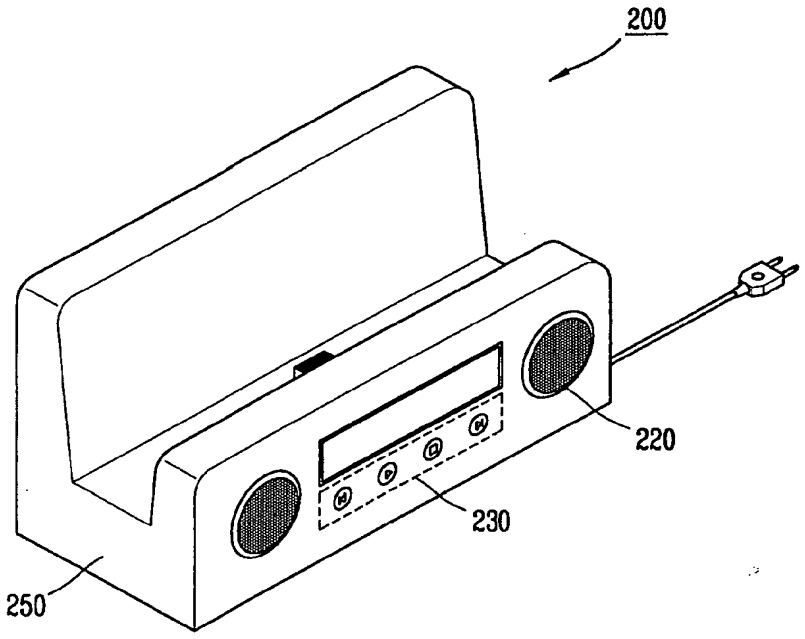
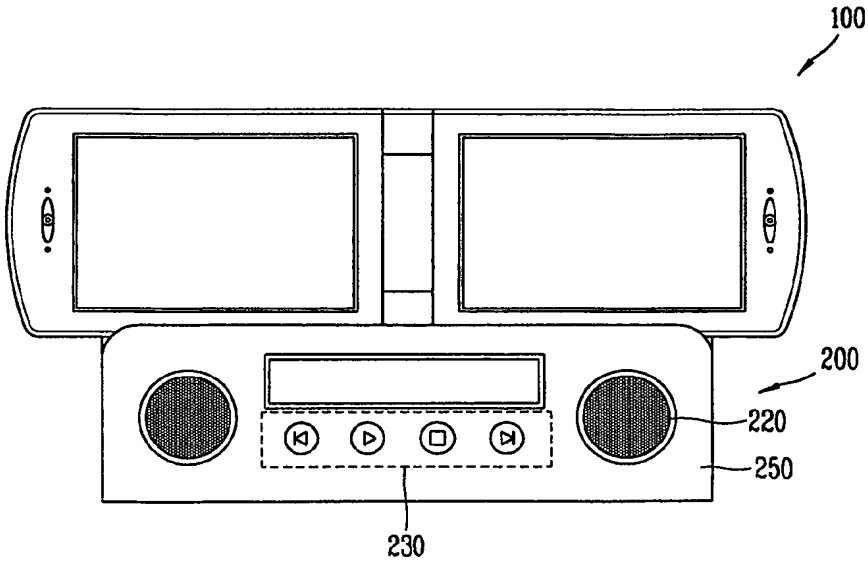
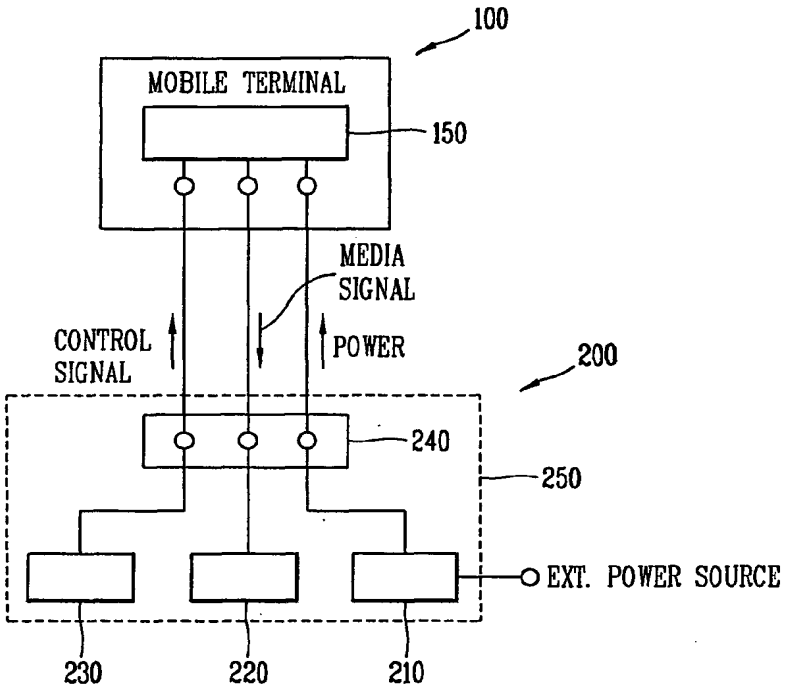


FIG. 13



Ex. 1002, p. 257
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

FIG. 14



Ex. 1002, p. 258
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)
(PCT Rule 44bis.1(c))

To:

LENNOX-GENTLE, Thaine
Sheridan Ross P.C.
1560 Broadway, Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)* 11 April 2013 (11.04.2013)	
Applicant's or agent's file reference 6583-26-PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2011/053849	29 September 2011 (29.09.2011)	01 October 2010 (01.10.2010)

Applicant
IMERJ LLC et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer
Athina Nickitas-Etienne

e-mail: pt04.pct@wipo.int

Ex. 1002, p. 259
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-26-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2011/053849	International filing date *(day/month/year)* 29 September 2011 (29.09.2011)	Priority date *(day/month/year)* 01 October 2010 (01.10.2010)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant IMERJ LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 02 April 2013 (02.04.2013)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Athina Nickitas-Etienne e-mail: pt04.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: THAINE LENNOX-GENTLE
SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	27 FEB 2012
Applicant's or agent's file reference 6583-26-PCT	FOR FURTHER ACTION See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US 11/53849	29 September 2011 (29.09.2011)	01 October 2010 (01.10.2010)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06F 3/048 (2012.01)
USPC - 715/778

Applicant IMERJ LLC

1. This opinion contains indications relating to the following items:

- [X] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [X] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	07 February 2011 (07.02.2011)	Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53849

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

   ☐ on paper

   ☐ in electronic form

   b. (time)

   ☐ in the international application as filed

   ☐ together with the international application in electronic form

   ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53849

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	5-6, 14-15	YES
	Claims	1-4, 7-13, 16-20	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1-4, 7-13 and 16-20 lack novelty under PCT Article 33(2) as being anticipated by US 2010/0079355 A1 to Kilpatrick, II et al. (hereinafter 'Kilpatrick').

As per claims 1, 10 and 19, Kilpatrick discloses a dual-screen user device (101, fig. 3-4, para [0084]-[0087]) with a corresponding method of controlling the size of a dual-screen application displayed thereon (2600, para [0136]-[0143], [0232]), the device comprising: a first screen including a first display area (second panel 104, para [0084]); a second screen including a second display area (first panel 102, para [0084]); a hinge (905, fig. 9, para [0109]) configured to connect the first screen with the second screen (first fold location 110, para [0084], [0110]); a first sensor (folding configuration/tilt sensors 874 or 876, fig. 8, para [0098]) configured to produce a first signal indicative of a position of the hinge (fig. 15-20, para [0111]); a non-transitory computer-readable medium having stored thereon instructions that cause a computing system to execute a method (tangible storage medium, para [0291]), the instructions comprising: instructions configured to display the dual-screen application on the first screen and the second screen of the multi-screen device (fig. 3, para [0085]); instructions configured to receive a first predetermined input that represents an instruction to deactivate displaying to the second screen of the multi-screen device (e.g., first panel 102, fig. 4, may be in a powered down configuration, para [0087]); instructions configured to respond to the first predetermined input with an output that deactivates the second screen display and causes the dual-screen application to be displayed in a single-screen mode on the first screen of the multi-screen device (fig. 4, para [0087], [0091]-[0092]); instructions configured to receive a second predetermined input that represents an instruction to reactivate displaying to the second screen of the multi -screen device (e.g., third display surface 3006, fig. 30, may have a display area ... that performs other functions, such as a night light, displaying one or more ornamental designs, a user specified display, para [0147]); instructions configured to respond to the second predetermined input with an output that reactivates the second screen display and causes the dual-screen application to continue to be displayed in a single-screen mode on the first screen of the multi-screen device (fig. 30, para [0147]); instructions configured to determine, based at least partially on the first signal, that the hinge has moved from a first position in which the first and second screens are open to a second position in which the first and second screens are closed (para [0117], [0149]).

As per claims 2 and 11, Kilpatrick further discloses that in the first predetermined input is caused by a physical change of state to the multi -screen device (e.g., fully folded to the closed position, para [0092]).

As per claims 3 and 12, Kilpatrick further discloses that in the second predetermined input is caused by a physical change of state to the multi-screen device (e.g., folded in a triangular shape, para [0094]).

As per claims 4 and 13, Kilpatrick further discloses that the physical change of state is effected by at least one of opening the multi-screen device and closing the multi-screen device (para [0149]).

As per claims 7 and 16, Kilpatrick further discloses that responding to the second predetermined input further includes referring to modal rules of the dual-screen application (para [0138]), wherein the modal rules define the manner in which the dual-screen application is displayed to the first screen (para [0137]).

As per claims 8 and 17, Kilpatrick further discloses that the modal rules define that the dual-screen application is maximized to display data to the first and second screens (execute the application across all three displays 102, 104, and 106 in a different physical configuration, para [0091]).

As per claims 9 and 18, Kilpatrick further discloses that the modal rules define that the dual-screen application is displayed to the first screen (execute an application at a single display ... 104, ... in one physical configuration, para [0091]).

As per claim 20, Kilpatrick further discloses that the second position is the first predetermined input, and first position is the second predetermined input (para [0117], [0149]).

---(Please See Supplemental Box)---

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53849

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:
Box V. 2 Citations and Explanations

Claims 5-6 and 14-15 lack an inventive step under PCT Article 33(3) as being obvious over Kilpatrick in view of US 2010/0223553 A1 (Madden).

As per claims 5 and 14, Kilpatrick further discloses that the multi-screen device is running a second application (performs other functions, such as a night light, displaying one or more ornamental designs, a user specified display, para [0147]); but does not explicitly disclose that the second application stored in a virtual stack. However, Madden discloses a computing environment 100 (fig. 1) capable of providing a multi-media-center (para [0025]) including a media-player (307, fig. 3, para [0036]) stored in a virtual stack (para [0044]). It would have been obvious to one of ordinary skill in the art to apply Madden's virtual stack to store Kilpatrick's application in order to keep track of usage of the applications (para [0044] of Madden).

As per claims 6 and 15, Kilpatrick further discloses that after receiving the second predetermined input (e.g., When displays are folded in a triangular shape, para [0094]), the second application is displayed to the second screen of the multi-screen device (para [0147]).

Claims 1-20 have industrial applicability as defined by PCT Article 33(4), because the subject matter can be made or used in industry.

SAC

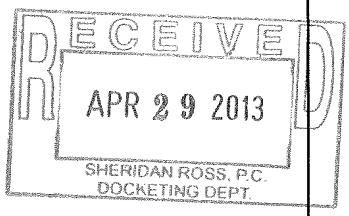
PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

To:



ELLSWORTH, Matthew R.
Sheridan Ross P.C.
1560 Broadway, Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)* 11 April 2013 (11.04.2013)	
Applicant's or agent's file reference 6583-46-PCT	**IMPORTANT NOTICE**

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2011/053914	29 September 2011 (29.09.2011)	01 October 2010 (01.10.2010)

Applicant: IMERJ LLC et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer: Lingfei Bai

e-mail: pt02.pct@wipo.int

Ex. 1002, p. 265
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-46-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2011/053914	International filing date *(day/month/year)* 29 September 2011 (29.09.2011)	Priority date *(day/month/year)* 01 October 2010 (01.10.2010)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant IMERJ LLC		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☒	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 02 April 2013 (02.04.2013)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Lingfei Bai e-mail: pt02.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: MATTHEW R. ELLSWORTH
SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	21 FEB 2012
Applicant's or agent's file reference 6583-46-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US 11/53914	29 September 2011 (29.09.2011)	01 October 2010 (01.10.2010)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G09G 5/00 (2012.01)
USPC - 345/659

Applicant IMERJ LLC

1. This opinion contains indications relating to the following items:

- [X] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [X] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [X] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to th IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Fom PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	09 February 2012 (09.02.2012)	Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53914

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53914

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	1 - 20	YES
	Claims	None	NO
Inventive step (IS)	Claims	None	YES
	Claims	1 - 20	NO
Industrial applicability (IA)	Claims	1 - 20	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1 - 20 lack an inventive step under PCT Article 33(3) as being obvious over US 2006/0082518 A1 (Ram) in view of US 2008/0174570 A1 to Jobs et al. (hereinafter, 'Jobs').

As to claims 1, 9 and 15, Ram teaches a method, a non-transitory computer-readable medium and a multi-screen user device, comprising (para [0076]): a first screen including a first display area (para [0066]); a second screen including a second display area (para [0066]); a sensor configured to produce an electrical signal indicative of a rotation of the user device (para [0074], [0076]); and a computer-readable medium having instructions stored thereon that include: determining that the multi-screen device has been rotated a first time from a first open state to a second different open state, wherein data from a first and second application are displayed while the device is in the first open state and wherein data from the first application is not displayed while the device is in the second open state (para [0072], [0113], [0105]; Fig.29); determining that the device has been rotated a second time after the first time (para [0113]);
but fails to explicitly disclose in response to determining that the device has been rotated the second time, automatically causing data from the second application and a third application to be displayed on the device.
However, Jobs does teach in response to determining that the device has been rotated the second time, automatically causing data from the second application and a third application to be displayed on the device (para [0578]).
It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the multiple monitor display apparatus of Ram with the touch screen device, method, and graphical user interface for determining commands by applying heuristics of Jobs, because Ram and Jobs are directed to systems and methods for a dual-screen view in response to rotation. Furthermore, users and designers benefit from systems and/or methods adapted for allowing a smooth transition into and out of a pause (e.g., a smooth lowering and raising of the sound volume for the music player), because such systems/methods allow for use with a computing device with a touch screen display comprising detecting one or more finger contacts with the touch screen display, applying one or more heuristics to the one or more finger contacts to determine a command for the device, and processing the command (Jobs, para [0009]).

As to claims 2, 10, 16 and 17, in combination with Jobs, Ram further discloses wherein the first open state corresponds to an open portrait state and wherein the second open state corresponds to an open landscape state in which a first screen of the device is positioned above a second screen of the device, wherein the data from the first application is displayed on the first screen prior to the rotation of the device, and wherein the data from the second application is displayed on the second screen prior to the rotation of the device (para [0205]; Figs.129, 130).

As to claims 3, 11 and 18, in combination with Ram, Jobs further discloses wherein the data from the second application is displayed on the first screen after the rotations of the device, wherein the data from the third application is displayed on the second screen after the rotations of the device, wherein the data from the third application is not displayed prior to the rotation of the device, and wherein data from the first application is not displayed after the rotations of the device (para [0109] - not display; para [0578] - applications; para [0939] - rotation).

As to claims 4, 12 and 20, in combination with Ram, Jobs further discloses wherein the rotation of the device is determined, at least in part, based on sensor data received from an accelerometer (para [0114]).

As to claims 5, 13 and 19, in combination with Jobs, Ram further discloses wherein the device is in the open portrait state after the device is rotated the second time (para [0205]).

As to claims 6, 7 and 14, in combination with Jobs, Ram further discloses wherein the data from the second device is automatically displayed on both the first and second screens while the device is in the second open state and wherein data from the second application is displayed in a landscape max output configuration (para [0206]).

As to claim 8, in combination with Ram, Jobs further discloses wherein the third application is different from the first application (para [0573]).

Claims 1 - 20 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53914

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:
There is an apparent typographic error in claim 11, originally submitted as follows:

11. The method of claim 10, wherein the data from the second application is displayed on the first screen after the rotations of the device, wherein the data from the third application is displayed on the second screen after the rotations of the device, wherein the data from the third application is not displayed prior to the rotation of the device, and wherein data from the first application is not displayed after the rotations of the device.

Since claim 10 is a "computer-readable medium" claim rather than a "method" claim, it lacks adequate antecedent basis to support claim 11; thus, for purposes of this international search, claim11 will be interpreted as follows:

11. The computer-readable medium of claim 10, wherein the data from the second application is displayed on the first screen after the rotations of the device, wherein the data from the third application is displayed on the second screen after the rotations of the device, wherein the data from the third application is not displayed prior to the rotation of the device, and wherein data from the first application is not displayed after the rotations of the device.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)
(PCT Rule 44bis.1(c))

To:

SWARTZ, Douglas, W.
Sheridan Ross P.C.
1560 Broadway, Suite 1200
Denver, CO 80202
ETATS-UNIS D'AMERIQUE

Date of mailing *(day/month/year)*	
11 April 2013 (11.04.2013)	
Applicant's or agent's file reference	**IMPORTANT NOTICE**
6583-48-PCT	

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2011/054032	29 September 2011 (29.09.2011)	01 October 2010 (01.10.2010)

Applicant

Z124 et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer

Agnès Wittmann-Regis

e-mail: pt06.pct@wipo.int

Ex. 1002, p. 271
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-48-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2011/054032	International filing date *(day/month/year)* 29 September 2011 (29.09.2011)	Priority date *(day/month/year)* 01 October 2010 (01.10.2010)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant Z124		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 7 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 02 April 2013 (02.04.2013)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Agnès Wittmann-Regis e-mail: pt06.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: DOUGLAS W. SWARTZ
SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	22 FEB 2012
Applicant's or agent's file reference: 6583-48-PCT	FOR FURTHER ACTION: See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US 11/54032	29 September 2011 (29.09.2011)	01 October 2010 (01.10.2010)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06F 3/041 (2012.01)
USPC - 345/173

Applicant IMERJ LLC

1. This opinion contains indications relating to the following items:

- [X] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [X] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	07 February 2012 (07.02.2012)	Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/54032

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

   ☐ on paper

   ☐ in electronic form

   b. (time)

   ☐ in the international application as filed

   ☐ together with the international application in electronic form

   ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/54032

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	1-21	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-21	NO
Industrial applicability (IA)	Claims	1-21	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1-21 lack an inventive step under PCT Article 33(3) as being obvious over US 2010/0085274 A1 to Kilpatrick, II et al. (hereinafter 'Kilpatrick') in view of US 2006/0206825 A1 to Dorn et al. (hereinafter 'Dorn').

Regarding claim 1, Kilpatrick teaches a method, comprising: receiving, by processor executable in a multi-display communication device, a command to at least one of minimize and maximize a set of related windows from a common multi-screen application (activate and suspend, i.e., maximize or minimize size, windows generated from a common / same multiscreen applications / window, e.g., a desktop icon panel application . Fig. 29, 34, 35; para [0091], [0154], [0156], [0172], [0204], [0254]), the set of related windows comprising a higher level window and a lower level window at least one of displayed and to be displayed by different touch sensitive displays and at least one of the higher and lower level windows comprises a pop-up window launched from one of the higher and lower level windows (vertically arranged and pop-up / overlapped windows concurrently displayed on multiple touchscreens; para [0091], [0106], [0250], [0254]); applying, by the processor executable, the following rules: (B1) when the set of related windows is to be maximized (a set of windows are sized to fill panels; Fig. 6, 35; para [0138], [0154]), maintaining the pop-up window in view in the one of the higher and lower level windows from which the pop-up window was launched (a popup window is positioned / launched on top of a window / panel that generated it; Fig. 36; para [0106], [0250], [0254]); and (B2) when the set of related windows is to be minimized (a set of windows are sized smaller or suspended / hidden; Fig. 36, 37; para [0156], [0178], [0182], [0204], [0209]), applying at least one of the following sub-rules: (B2i) when the at least one of the higher and lower level windows comprising the pop-up window is displayed after the set of related windows is minimized, maintaining the pop-up window in view (minimize / suspend the other application windows while the pop-up continues to be displayed, e.g., the pop-up remains the active window and suspends or displays .over. / minimizes the others; para [0106], [0177], [0178], [0182], [0254]); and (B2ii) when the at least one of the higher and lower level windows comprising the pop-up window is not to be displayed after the set of related windows is minimized, cancelling automatically the pop-up window (interaction with the pop-up window can cause .auto-exit. of a combination of applications, e.g., a call pop window notification / indicia is displayed on top and the user launches / accepts the videoconferencing request and the other programs and the pop-up are exited or suspended in response; para [0137], [0178], [0182], [0254]), but fails to disclose middleware; a modal launched from one of the higher and lower level windows; the modal is displayed after the set of related windows is minimized, maintaining the modal in view; and the modal is not to be displayed after the set of related windows is minimized. Dorn teaches middleware (a window manger intercept window interface instructions for processing by the system; para [0071]); a modal launched from one of the higher and lower level windows (a parent window HF launces a child pop-up / higher window from a related set / group, i.e., modal KF; Fig. 1B, 2; para [0062]-[0064], [0074]); the modal is displayed after the set of related windows is minimized, maintaining the modal in view (the pop up is maintained in view / top-most on multiple monitors even when preceding windows on both screens are repositions and/or hidden / overlapped, i.e., minimized; para [0062], [0063], [0071], [0072], [0075]); and the modal is not to be displayed after the set of related windows is minimized (after the the user inputs or closes the dialogue with the popup it is minimized to ensure pop-up controls are seen and to enhance the security and reliability of the system by ensuring pop-ups are visible in any orientation of windows or monitors; para [0062], [0064], [0065]). It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to modify the method of Kilpatrick to include middleware; a modal launched from one of the higher and lower level windows; the modal is displayed after the set of related windows is minimized, maintaining the modal in view; and the modal is not to be displayed after the set of related windows is minimized as taught by Dorn for the advantage of enhancing security, reliability and convenience.

Regarding claim 2, Kilpatrick teaches rule (B1) applies and wherein the processor executable middleware selects a predetermined touch sensitive display for displaying one of the higher and lower level windows and causes the other of the higher and lower level windows to be displayed on the other touch sensitive display (the touch sensitive displays and window can be dragged and reoriented / rotated such that the layers of windows change screens, e.g., by dragging or landscape to portrait manipulations; Fig. 34 to 37; Fig. 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]).

Regarding claim 3, Dorn teaches prior to maximization, the modal is displayed on the higher level window and wherein the modal was launched from the lower level window (the modal is generate on top / higher than any of the other previous main windows; Fig. 1B, 2; para [0068], [0074], [0075]).

--CONTINUED IN SUPPLEMENTAL BOX--

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/54032

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:
Box No. V. 2. Citations and explanations:

Regarding claim 4, Kilpatrick teaches a drag or flick command is received (drag or quick / shake movements; para [0156], [0288], [0289]), wherein neither the higher nor lower level window is displayed in the predetermined touch sensitive display when the command is received, and wherein the lower level window appears to move from the other touch sensitive display to the predetermined touch sensitive display, thereby revealing the higher level window in the other touch sensitive display (the users input causes reorientation of the window layers and window to partially or completely switch to other displays; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]).

Regarding claim 5, Kilpatrick teaches a drag or flick command is received (drag or quick / shake movements; para [0156], [0288], [0289]), wherein the lower level window is in the predetermined touch sensitive display when the command is received, wherein the higher level window appears to move from the predetermined touch sensitive display to the other touch sensitive display, whereby the lower level window is displayed by the predetermined touch sensitive display and the higher level window is displayed by the other touch sensitive display (the users input causes reorientation of the window layers and window to partially or completely switch to other displays; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]).

Regarding claim 6, Kilpatrick teaches rule (B2i) applies (minimize / suspend the other application windows while the pop-up continues to be displayed, e.g., the pop-up remains the active window and suspends or displays .over. / minimizes the others; para [0106], [0177], [0178], [0182], [0254]).

Regarding claim 7, Kilpatrick teaches rule (B2ii) applies (interaction with the pop-up window can cause .auto-exit. of a combination of applications, e.g., a call pop window notification / indicia is displayed on top and the user launches / accepts the videoconferencing request and the other programs are exited or suspended in response; para [0137], [0178], [0182], [0254]).

Regarding claim 8, Kilpatrick teaches rule (B2) applies, wherein the processor executable middleware selects a touch sensitive display for displaying the higher level window and ceases to display the lower level window on the other touch sensitive display (a set of windows are sized smaller or suspended / hidden; Fig. 36, 37; para [0156], [0178], [0182], [0204], [0209]), wherein a drag or flick command is received (drag or quick / shake movements; para [0156], [0288], [0289]), wherein the higher and lower level window are concurrently displayed in the selected and other touch sensitive displays when the command is received (para [0091]), wherein the lower level display is displayed in the selected touch sensitive display when the command is received, and wherein the higher level window appears to move from the other touch sensitive display to the selected touch sensitive display, thereby covering the lower level window in the other touch sensitive display (the users input causes reorientation of the window layers and window to partially or completely switch to other displays; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]).

Regarding claim 9, Kilpatrick teaches rule (B2) applies, wherein the processor executable middleware selects a touch sensitive display for displaying the higher level window and ceases to display the lower level window on the other touch sensitive display (a set of windows are sized smaller or suspended / hidden; Fig. 36, 37; para [0156], [0178], [0182], [0204], [0209]), wherein a drag or flick command is received (drag or quick / shake movements; para [0156], [0288], [0289]), wherein the higher and lower level window are concurrently displayed in the selected and other touch sensitive displays when the command is received (para [0091]), wherein the higher level display is displayed in the selected touch sensitive display when the command is received, and wherein the lower level window appears to move from the other touch sensitive display to the selected touch sensitive display, thereby disappearing under the higher level window in the other touch sensitive display (the users input causes reorientation of the window layers and window to partially or completely switch to other displays or are hidden / suspended, i.e., disappear; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0156], [0157], [0162]).

Regarding claim 10, Kilpatrick teaches a non-transient and tangible computer readable medium comprising processor executable instructions to perform the steps of claim 1 (Fig. 8).

Regarding claim 11, Kilpatrick teaches a multi-display communication device operable to perform the steps of claim 1 (Fig. 8).

--CONTINUED IN NEXT SUPPLEMENTAL BOX--

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/54032

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:
Box No. V. 2. Citations and explanations:

Regarding claim 12, Kilpatrick teaches a method, comprising: receiving, by processor executable in a multi-display communication device comprising first and second touch sensitive displays (Fig. 8), a command to rotate a display from one of portrait and landscape display mode to the other of portrait and landscape display mode (Fig. 39 to 41; para [0105], [0177]), wherein the first touch sensitive display comprises a pop-up window launched from at least one of a higher and lower level window in a set of related windows comprising a higher level window and a lower level window at least one of displayed and to be displayed by different touch sensitive displays (vertically arranged and pop-up / overlapped windows concurrently displayed on multiple touchscreens; para [0091], [0106], [0250], [0254]); applying, by the processor executable, the following rules: (B1) when the first and second touch sensitive displays are rotated from a portrait display mode to a landscape display mode (the touch sensitive displays and window can be dragged and reoriented / rotated such that the layers of windows change screens, e.g., by dragging or landscape to portrait manipulations; Fig. 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]), applying at least one of the following subrules: (B1i) when the first touch sensitive display is, relative to the second touch sensitive display, in an upper position after rotation and the first touch sensitive display displays the at least one of a higher and lower level window, displaying the pop-up window in the first touch sensitive display after rotation (the users input causes reorientation of the window layers and window to partially or completely switch to other displays or are hidden / suspended, i.e., disappear; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0156], [0157], [0162]); and (B1ii) when the first touch sensitive display is, relative to the second touch sensitive display, in a lower position after rotation and neither the first nor second touch sensitive display displays the at least one of a higher and lower level window (the users input causes reorientation of the window layers and window to partially or completely switch to other displays or are hidden / suspended, i.e., disappear; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0156], [0157], [0162]), not displaying, after rotation, the pop-up window in either the first or second touch sensitive display (interaction with the pop-up window can cause .auto-exit. of a combination of applications, e.g., a call pop window notification / indicia is displayed on top and the user launches / accepts the videoconferencing request and the other programs and the pop-up are exited or suspended in response; para [0137], [0178], [0182], [0254]); and (B2) when the first and second touch sensitive displays are rotated from a landscape display mode to a portrait display mode, displaying the pop-up window, after rotation, on the one of the first and second touch sensitive displays on which the pop-up window was launched (the users input causes reorientation of the window layers and pop-up window to partially or completely switch to other displays; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]), but fails to disclose middleware; a modal launched from one of the higher and lower level windows; displaying the modal in the first touch sensitive display after rotation; and not displaying, after rotation, the modal in either the first or second touch sensitive display. Dorn teaches middleware (a window manger intercept window interface instructions for processing by the system; para [0071]); a modal launched from one of the higher and lower level windows (a parent window HF launces a child pop-up / higher window from a related set / group, i.e., modal KF; Fig. 1B, 2; para [0062]-[0064], [0074]); displaying the modal in the first touch sensitive display after rotation; and not displaying, after rotation, the modal in either the first or second touch sensitive display (the pop up is maintained in view / top-most on multiple monitors even when preceding windows on both screens are repositions and/or hidden / overlapped, i.e., minimized; para [0062], [0063], [0071], [0072], [0075]); and the modal is not to be displayed after the set of related windows is minimized (after the the user inputs or closes the dialogue with the popup it is minimized to ensure pop-up controls are seen and to enhance the security and reliability of the system by ensuring pop-ups are visible in any orientation of windows or monitors; para [0062], [0064], [0065]). It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to modify the method of Kilpatrick to include middleware; a modal launched from one of the higher and lower level windows; displaying the modal in the first touch sensitive display after rotation; and not displaying, after rotation, the modal in either the first or second touch sensitive display as taught by Dorn for the advantage of enhancing security, reliability and convenience.

Regarding claim 13, Kilpatrick teaches the set of related windows is maximized before and after rotation (a set of windows are sized to fill panels; Fig. 6, 35, 39 to 41; para [0138], [0154]).

Regarding claim 14, Kilpatrick teaches rule (B1i) applies (the users input causes reorientation of the window layers and window to partially or completely switch to other displays or are hidden / suspended, i.e., disappear; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0156], [0157], [0162]).

Regarding claim 15, Kilpatrick teaches after rotation, the at least one of a higher and lower level window displaying the modal is displayed on both the first and second touch sensitive displays (the users input causes reorientation of the window layers and window to partially or completely switch to other displays; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]) and wherein, during rotation, a lower level window displayed on the second touch sensitive display is covered by the at least one of a higher and lower level window (the touch sensitive displays and window can be dragged and reoriented / rotated such that the layers of windows cover or hide bottom / lower windows; Fig. 34 to 37; Fig. 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]).

Regarding claim 16, Kilpatrick teaches before rotation, the at least one of a higher and lower level window displaying the modal is displayed on the second touch sensitive display, wherein, after rotation, the modal is displayed on the first touch sensitive display, and wherein, after rotation, the at least one of a higher and lower level window is displayed on both the first and second touch sensitive displays (the users input causes reorientation of the window layers and the pop-up window to partially or completely switch to other displays; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]).

Regarding claim 17, Kilpatrick teaches rule (B1ii) applies (the users input causes reorientation of the window layers and window to partially or completely switch to other displays or are hidden / suspended, i.e., disappear; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0156], [0157], [0162]).

--CONTINUED IN NEXT SUPPLEMENTAL BOX--

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/54032

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:
Box No. V. 2. Citations and explanations:

Regarding claim 18, Kilpatrick teaches the modal is canceled automatically at least one of during and after rotation (interaction with the pop-up window during or after a rotation can cause .auto-exit. of a combination of applications, e.g., a call pop window notification / indicia is displayed on top and the user launches / accepts the videoconferencing request in a rotated configuration and the other programs and the pop-up are exited or suspended in response; para [0137], [0178], [0182], [0254]).

Regarding claim 19, Kilpatrick teaches rule (B2) applies (the users input causes reorientation of the window layers and pop-up window to partially or completely switch to other displays; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]).

Regarding claim 20, Kilpatrick teaches a non-transient and tangible computer readable medium comprising processor executable instructions to perform the steps of claim 12 (Fig. 8).

Regarding claim 21, Kilpatrick teaches a multi-display communication device operable to perform the steps of claim 12 (Fig. 8).

Claims 1-21 have industrial applicability as defined by PCT Article 33(4), because the subject matter can be made or used in industry.

PATENT COOPERATION TREATY

ADVANCE E-MAIL

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)
(PCT Rule 44bis.1(c))

To:

SHERIDAN ROSS P.C.
WILSON, Tadd F
1560 Broadway, Suite 1200
Denver, Colorado 80202
ETATS-UNIS D'AMERIQUE

RECEIVED
MAY - 1 2013
SHERIDAN ROSS, P.C.
DOCKETING DEPT.

Date of mailing *(day/month/year)*	
11 April 2013 (11.04.2013)	
Applicant's or agent's file reference	IMPORTANT NOTICE
6583-379-PCT	

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2011/052811	22 September 2011 (22.09.2011)	01 October 2010 (01.10.2010)

Applicant

Z124 et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. +41 22 338 82 70

Authorized officer

Lingfei Bai

e-mail: pt02.pct@wipo.int

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference 6583-379-PCT	**FOR FURTHER ACTION**	See item 4 below
International application No. PCT/US2011/052811	International filing date *(day/month/year)* 22 September 2011 (22.09.2011)	Priority date *(day/month/year)* 01 October 2010 (01.10.2010)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant Z124		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

   In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

☒	Box No. I	Basis of the report
☐	Box No. II	Priority
☐	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
☐	Box No. IV	Lack of unity of invention
☒	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
☐	Box No. VI	Certain documents cited
☐	Box No. VII	Certain defects in the international application
☐	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

	Date of issuance of this report 02 April 2013 (02.04.2013)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Authorized officer Lingfei Bai e-mail: pt02.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
ROBERT G.CROUCH

MARSH FISCHMANN & BREYFOGLE LLP 8055 E.
TUFTS AVENUE, SUITE 450 DENVER CO 80237 USA

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing *(day/month/year)* **27 APRIL 2012 (27.04.2012)**

Applicant's or agent's file reference
50224-02123

FOR FURTHER ACTION
See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2011/052811	**22 SEPTEMBER 2011 (22.09.2011)**	01 OCTOBER 2010 (01.10.2010)

International Patent Classification (IPC) or both national classification and IPC

G06F 3/01(2006.01)i, G06F 3/14(2006.01)i, G06F 3/048(2006.01)i

Applicant

IMERJ, LLC et al

1. This opinion contains indications relating to the following items:

- [x] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [x] Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.
For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/KR	Date of completion of this opinion	Authorized officer
Korean Intellectual Property Office Government Complex-Daejeon, 189 Cheongsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	24 APRIL 2012 (24.04.2012)	MOK, Seung Kyun Telephone No.82-42-481-8514

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2011/052811

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of :

   ☒ the international application in the language in which it was filed

   ☐ a translation of the international application into _____ , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of:

   a. a sequence listing filed or furnished
      ☐ on paper
      ☐ in electronic form

   b. time of filing or furnishing
      ☐ contained in the international application as filed.
      ☐ filed together with the international application in electronic form.
      ☐ furnished subsequently to this Authority for the purposes of search.

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

Ex. 1002, p. 282
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2011/052811

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	3-13,15-20	YES
	Claims	1-2,14	NO
Inventive step (IS)	Claims	4-13,15-20	YES
	Claims	1-3,14	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	NONE	NO

2. Citations and explanations :

Reference is made to the following documents:

D1: US 2010-0245256 A1 (ESTRADA JULIO et al.) 30 September 2010
D2: US 2010-0245209 A1 (MILLER MICHAEL C. et al.) 30 September 2010
D3: US 2008-0062625 A1 (JEFFREY BATIO) 13 March 2008
D4: US 2008-0165144 A1 (FORSTALL SCOTT et al.) 10 July 2008
D5: US 2010-0085382 A1 (LUNDQVIST PATRIK N. et al.) 08 April 2010

1. Novelty and Inventive Step

1.1 Claims 1-13

1.1.1 Claim 1-3

D1, which is considered to be the closest prior art to the subject matter of claim 1, discloses a touch sensitive computing device comprising: a first sensitive display 34 and a second sensitive display 36; wherein the device has automatically sensed rotation and made appropriate rotations to a material presented on the respective display 34 and 36 (see [0032]). As all of the features of claim 1 are disclosed in D1, this claim is anticipated by D1. Therefore, claim 1 lacks novelty under PCT Article 33(2).

The additional feature of claim 2 depending on claim 1 is identical to the feature of portrait-landscape transition based on a position of the device of D1. Therefore, claim 2 lacks novelty under PCT Article 33(2).

The additional feature of claim 3 depending on claim 2 is identical to the feature of accelerometers as position sensors in D2 (see [0013]). Therefore, claim 3 lacks an inventive step under PCT Article 33(3).

Continued on Supplemental Box

Ex. 1002, p. 283
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of :

Box V

1.1.2 Claim 4-13

The subject matters of claims 4 and 7 are different from that of D1 in that a handheld computing devices of claims 4 and 7 further include a third orientation different than a first orientation and a second orientation. In addition, this feature is not disclosed in any other available prior art documents D2-D5. Accordingly, claims 4 and 7 are not anticipated by any of the documents, nor are they obvious by the documents, taken alone or in combination. Therefore, claims 4 and 7 are novel and involves an inventive step under PCT Article 33(2) and (3)

Claims 5 and 6 are dependent on claim 4 and claims 8-13 are dependent on claim 7. Therefore, claims 5-6 and 8-13 meet the requirements of PCT Article 33(2) and (3).

1.2 Claim 14

Independent Claim 14 relates to a handheld computing device using the method of claim 1. The technical feature of claim 1 essentially corresponds to that of claim 1. Accordingly, the same reasoning applies to claim 14. Thus, claim 14 1 lacks novelty under PCT Article 33(2).

1.3 Claims 15-20

The subject matter of claim 1 differs from these prior art documents in that a first display is in dominant display position and second display is in a servient display position, when a handheld device is in a second orientation. And it is not obvious to a person skilled in the art by the documents, taken alone or in combination. Therefore, claim 15 meets the requirements of PCT Article 33(2) and (3) with respect to novelty and inventive step.

Claims 16-20 are dependent on claim 15 and therefore meet the requirements of PCT Article 33(2) and (3).

2. Industrial Applicability

Claims 1-20 are industrially applicable under PCT Article 33(4).

Ex. 1002, p. 284
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Electronic Acknowledgement Receipt

EFS ID:	16223476
Application Number:	13247728
International Application Number:	
Confirmation Number:	9244
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Customer Number:	111285
Filer:	Tadd Fjelp Wilson/Robert Roe-Pachirat
Filer Authorized By:	Tadd Fjelp Wilson
Attorney Docket Number:	6583-69
Receipt Date:	02-JUL-2013
Filing Date:	28-SEP-2011
Time Stamp:	18:49:26
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		IDS_02_6583-69.pdf	212875 03742ca8f4c3d0146c926c028d4c62d11fdf0e4e	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:					
2	Foreign Reference	EP1775925.pdf	1058360 065e14dce67b4df76723761dd7a2eeb2cf861c01	no	23
Warnings:					
Information:					
3	Non Patent Literature	6583-26-PCT_IPRP_04-11-2013.pdf	220150 d53b32ed80b7103a59e60875b6501d275ee027c9	no	6
Warnings:					
Information:					
4	Non Patent Literature	6583-46-PCT_IPRP_04-11-2013.pdf	586362 c1b391027e23a21e04349414eb6eaab958f77cdf	no	6
Warnings:					
Information:					
5	Non Patent Literature	6583-48-PCT_IPRP_04-11-2013.pdf	407796 26ec006638c150a47dff4c985bc9f6ebd4fde567	no	8
Warnings:					
Information:					
6	Non Patent Literature	6583-50-EP_ESR_11-21-2012.pdf	268444 08422de9008aa988b9ca3d909cbb9630c49bebac	no	8
Warnings:					
Information:					
7	Non Patent Literature	6583-379-PCT_IPRP_04-11-2013.pdf	567970 4bb96ca4f551291203e0bd74764ae56edea686de	no	6
Warnings:					
Information:					
8	Non Patent Literature	6583-46_OA_02-28-2013.pdf	602456 0555ed4dd2e550c6aa3832dd7dc6e58fe25ebecf	no	16
Warnings:					
Information:					

9	Non Patent Literature	6583-46_OA_06-17-2013.pdf	781124 ddd9503241c2b2c6629af21fd5d660d8ba5087dd	no	20
Warnings:					
Information:					
10	Non Patent Literature	6583-49_OA_05-23-2013.pdf	773343 b0acc593429f412d1c4c284fc15f5b1329228ff2	no	20
Warnings:					
Information:					
11	Non Patent Literature	6583-51_OA_06-17-2013.pdf	936327 175e47e34f8baefd89ad0d4c808fc9e22c063f92	no	30
Warnings:					
Information:					
12	Non Patent Literature	6583-183_OA_03-28-2013.pdf	417654 d643542c3bf681cd61c8efc6e49af2b8f282e727	no	15
Warnings:					
Information:					
13	Non Patent Literature	6583-71_OA_06-14-2013.pdf	478660 85519b3d64e6eee39e94e7abd073f6e9bedba8f1	no	15
Warnings:					
Information:					
		Total Files Size (in bytes):	7311521		

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:	)	Group Art Unit: 2171
Alexander de Paz	)	Confirmation No.: 9244
Serial No.: 13/247,728	)	Examiner: Andrea C. Leggett
Filed: September 28, 2011	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-69	)	
Entitled: "Dual Screen Application Visual Indicator"	)	*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

Ex. 1002, p. 288
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

Ex. 1002, p. 289
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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

Date: July 02, 2013

Ex. 1002, p. 290
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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
13/247,728	09/28/2011	Alexander de Paz	6583-69

CONFIRMATION NO. 9244

POA ACCEPTANCE LETTER

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

OC000000060945573

Date Mailed: 05/06/2013

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/29/2013.

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

/mbeyene/

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

Ex. 1002, p. 291
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

PTO/SB/80 (11-08)
Approved for use through 11/30/2011. OMB 0651-0035
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(b).

I hereby appoint:

☑ Practitioners associated with the Customer Number: 111285

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 assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

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

☑ The address associated with Customer Number: 111285

OR

☐ Firm or Individual Name			
Address			
City		State	Zip
Country			
Telephone		Email	

Assignee Name and Address:

Z124
c/o Maples Corporate Services Limited, 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(b) (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(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, 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	April 26, 2013
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.

PTO/SB/96 (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Z124

Application No./Patent No.: 13/247,728 Filed/Issue Date: September 28, 2011

Titled: Dual Screen Application Visual Indicator

Z124 , a corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;

2. ☐ an assignee of less than the entire right, title, and interest in (The extent (by percentage) of its ownership interest is _____ %); or

3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

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 therefore is attached.

OR

B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Alexander de Paz To: Imerj LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 027143 , Frame 0203 , or for which a copy thereof is attached.

2. From: Imerj LLC To: Z124

The document was recorded in the United States Patent and Trademark Office at
Reel 028300 , Frame 0038 , or for which a copy thereof is attached.

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.

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

☐ As required by 37 CFR 3.73(b)(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.

/Tadd F. Wilson/ April 29, 2013

Signature Date

Tadd F. Wilson Patent Attorney - 54,544

Printed or Typed Name Title

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.

Privacy Act Statement

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

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

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

Electronic Acknowledgement Receipt

EFS ID:	15635014
Application Number:	13247728
International Application Number:	
Confirmation Number:	9244
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Customer Number:	22442
Filer:	Tadd Fjelp Wilson/Amy Duarte
Filer Authorized By:	Tadd Fjelp Wilson
Attorney Docket Number:	6583-69
Receipt Date:	29-APR-2013
Filing Date:	28-SEP-2011
Time Stamp:	13:30:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	2013-04-29_Z124_GenPOA.pdf	135559 a56ade2f68f42e92a962e0ec4f56b836419cd0eb	no	1

Warnings:	
Information:	

2	Assignee showing of ownership per 37 CFR 3.73.	2013-04-29_3-73b_Statement.pdf	426722 0e1842c99fe2af279221362555 7568d7238944bb	no	2

Warnings:	
Information:	
Total Files Size (in bytes):	562281

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.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
(Use as many sheets as necessary)				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C Leggett
Sheet	1	of	3	Attorney Docket Number	6583-69

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	2006/0082518	04/20/2006	Ram	
	2	2006/0206825	09/14/2006	Dorn et al.	
	3	2008/0122796	05/29/2008	Jobs et al.	
	4	2008/0062625	03/13/2008	Batio	
	5	2008/0165144	07/10/2008	Forstall et al.	
	6	2008/0174570	07/24/2008	Jobs et al.	
	7	2009/0119678	05/07/2009	Shih et al.	
	8	2009/0254861	10/08/2009	Seetharamakrishnan et al.	
	9	2010/0064244	03/11/2010	Kilpatrick, II et al.	
	10	2010/0081475	04/01/2010	Chiang et al.	
	11	2010/0079355	04/01/2010	Kilpatrick, II et al.	
	12	2010/0085274	04/08/2010	Kilpatrick, II et al.	
	13	2010/0085382	04/08/2010	Lundqvist et al.	
	14	2010/0088532	04/08/2010	Pollock et al.	
	15	2010/0100842	04/22/2010	Kim	
	16	2010/0182247	07/22/2010	Petschnigg et al.	
	17	2010/0182265	07/22/2010	Kim et al.	
	18	2010/0223553	09/02/2010	Madden	
	19	2010/0245209	09/30/2010	Miller et al.	
	20	2010/0245256	09/30/2010	Estrada et al.	
	21	2010/0298032	11/25/2010	Lee et al.	
	22	2010/0321275	12/23/2010	Hinckley et al.	
	23	2011/0230178	09/22/2011	Jones et al.	
	24	2012/0081270	04/05/2012	Gimpl et al.	
	25	2012/0081277	04/05/2012	de Paz	
	26	2012/0081302	04/05/2012	Gimpl et al.	
	27	2012/0081400	04/05/2012	Schrock et al.	
	28	2012/0084674	04/05/2012	Visosky	
	29	2012/0084693	04/05/2012	Sirpal et al.	
	30	2012/0084720	04/05/2012	Sirpal et al.	
	31	2012/0084722	04/05/2012	Cassar et al.	

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.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
(Use as many sheets as necessary)				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C Leggett
Sheet	2	of	3	Attorney Docket Number	6583-69

	32	2012/0174028	07/05/2012	Sirpal et al.	
	33	2013/0021262	01/24/2013	Chen	

UNPUBLISHED U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-kind Code[2] (if known)	Filing Date MM-DD-YYYY	Name of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	34	13/341634	12/30/2011	Selim	
	35	13/341666	12/30/2011	Selim	
	36	13/365148	02/02/2012	Reeves et al.	
	37	13/365153	02/02/2012	Reeves et al.	
	38	13/365157	02/02/2012	Reeves et al.	
	39	13/627680	09/26/2012	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.
	40	Google images, accessed Apr. 18, 2011, 6 pages
	41	"Lapdock™ for MOTOROLA ATRIX," at www.motorola.com/Consumers/US-EN/Consumer-Product-and-Services/Mobile..., accessed Apr. 18, 2011, 1 page
	42	"Motorola ATRIX 4G Laptop Dock Review," at www.phonearena.com/reviews/Motorola-ATRIX-4G-Laptop-Dock-Review_id2667, Mar. 2, 2011, 6 pages
	43	Website entitled, "Kyocera Echo," at www.echobykyocera.com/, 2011, 6 pages
	44	Website entitled, "Sony Tablet," at store.sony.com/webapp/wcs/stores/servlet/CategoryDisplay?catalogId=10551&storeId=10151&langId=-1&categoryId=8198552921644795521, 2011, 3 pages
	45	BURNS, "Motorola ATRIX 4G Laptop Dock Review," at www.androidcommunity.com/motorola-atrix-4g-laptop-dock-review-20110220/, Feb. 20, 2011, 5 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.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	13/247,728
				Filing Date	September 28, 2011
(Use as many sheets as necessary)				First Named Inventor	Alexander de Paz
				Art Unit	2171
				Examiner Name	Andrea C Leggett
Sheet	3	of	3	Attorney Docket Number	6583-69

	46	CATACCHIO, "This smartphone has two huge screens...that rotate," The Next Web at www.thenextweb.com/asia/2010/10/07/this-smartphone-has-two-huge-screens-that-rotate/, Jul. 21, 2011, 2 pages
	47	Harman03, "Kyocera Echo Dual-screen Android Phone," posted 4 weeks from Apr. 18, 2011, 3 pages
	48	HINCKLEY et al. "Codex: A Dual Screen Tablet Computer," CHI 2009 ~ New Mobile Interactions, Apr. 4-9, 2009, pages 1933-1942 (www.dgp.utoronto.ca/~ravin/papers/chi2009_codex.pdf)
	49	LEE "Developing Orientatin-Aware Android Application," Jun. 11, 2010, 9 pages (www.devx.com/wireless/Article/40792/1954)
	50	MARTELIN "Orientation Awareness In Declarative User Interface Languages for Mobile Devices: A Case Study and Evaluation," Jun. 01, 2010, 79 pages (lib.tkk.fi/Dipl/2010/um100291.pdf)
	51	STEIN, S., "How does the Motorola Atrix 4G Lapdock compare with a laptop?" Crave - CNET, at www.news.cnet.com/8301-17938_105-20031251-1.html, Feb. 9, 2011, 7 pages
	52	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US11/53849, mailed Feb. 27, 2012 (Attorney's Ref. No. 6583-26-PCT) 7 pages
	53	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US11/53884, mailed Feb. 28, 2012 (Attorney's Ref. No. 6583-44-PCT) 19 pages
	54	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US11/53914, mailed Feb. 21, 2012 (Attorney's Ref. No. 6583-46-PCT) 7 pages
	55	International Search Report and Written Opinion for Internatioanl (PCT) Patent Application No. PCT/US11/54032, mailed Feb. 22, 2012 (Attorney's Ref. No. 6583-48-PCT) 9 pages
	56	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US2011/052811, mailed Apr. 27, 2012 (Attorney's Ref. No. 6583-379-PCT) 14 pages
	57	Official Action for U.S. Patent Application No. 13/365,148, mailed Oct. 23, 2012 (Attorney's Ref. No. 6583-183) 10 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.

SAC | TLG

PATENT COOPERATION TREATY

COPY GIVEN TO MS DEP
Date 3/1/12 (Cash)
original → TLG

From the INTERNATIONAL SEARCHING AUTHORITY

To:
THAINE LENNOX-GENTLE
SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

MAR – 1 2012

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing *(day/month/year)*	27 FEB 2012
Applicant's or agent's file reference 6583-26-PCT	**FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US 11/53849	International filing date *(day/month/year)* 29 September 2011 (29.09.2011)
Applicant IMERJ LLC	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

   Filing of amendments and statement under Article 19:
   The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

   When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

   Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70

   For more detailed instructions, see *PCT Applicant's Guide*, International Phase, paragraphs 9.004 – 9.011.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

   ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with any request to forward the texts of both the protest and the decision thereon to the designated Offices.

   ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

   The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. Following the expiration of 30 months from the priority date, these comments will also be made available to the public.

   Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90*bis*.1 and 90*bis*.3).

   Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later): otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

   In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

   For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the *PCT Applicant's Guide*, National Chapters.

Name and mailing address of the ISA/ Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer Lee W. Young PCT Helpdesk: 571-272-4300 Telephone No. PCT OSP: 571-272-7774

Form PCT/ISA/220 (July 2010)

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 6583-26-PCT	**FOR FURTHER ACTION**	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US 11/53849	International filing date *(day/month/year)* 29 September 2011 (29.09.2011)	(Earliest) Priority Date *(day/month/year)* 01 October 2010 (01.10.2010)
Applicant IMERJ LLC		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

   a. With regard to the **language**, the international search was carried out on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

   b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).

   c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (see Box No. II).

3. ☐ **Unity of invention is lacking** (see Box No. III).

4. With regard to the **title**,

   ☒ the text is approved as submitted by the applicant.

   ☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

   ☒ the text is approved as submitted by the applicant.

   ☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

   a. the figure of the **drawings** to be published with the abstract is Figure No. 3a

   ☐ as suggested by the applicant.

   ☐ as selected by this Authority, because the applicant failed to suggest a figure.

   ☒ as selected by this Authority, because this figure better characterizes the invention.

   b. ☐ none of the figures is to be published with the abstract.

Ex. 1002, p. 301
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G06F 3/048 (2012.01)
USPC - 715/778
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
USPC: 715/778

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 715/864,866; 345/5,30 (see terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST(PGPB,USPT,USOC,EPAB,JPAB), GOOGLE SCHOLAR
terms: multi-screen, multiple, dual, double, two, LCD, LED, display, hinge, Hall effect, sensor, detect, accelerometer, orientation, portrait, landscape, open, closed, fold, easel, virtual stack, modal rule.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ---- Y	US 2010/0079355 A1 (Kilpatrick, II et al.) 01 April 2010 (01.04.2010), fig. 3-4, 9, 15-20, 30, para [0084]-[0098], [0109]-[0117], [0136]-[0149], [0232], [0291].	1-4, 7-13, 16-20 ---------- 5-6, 14-15
Y	US 2010/0223553 A1 (Madden) 02 September 2010 (02.09.2010), fig. 1, 3, para [0025], [0036], [0044].	5-6, 14-15
A	US 2010/0182265 A1 (Kim et al.) 22 July 2010 (22.07.2010), entire document.	1-20

☐ Further documents are listed in the continuation of Box C. ☐

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
07 February 2011 (07.02.2011)	27 FEB 2012
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: THAINE LENNOX-GENTLE
SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)* 27 FEB 2012

Applicant's or agent's file reference
6583-26-PCT

FOR FURTHER ACTION
See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US 11/53849	29 September 2011 (29.09.2011)	01 October 2010 (01.10.2010)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06F 3/048 (2012.01)
USPC - 715/778

Applicant IMERJ LLC

1. This opinion contains indications relating to the following items:

- [X] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [X] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	07 February 2011 (07.02.2011)	Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53849

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

   ☐ on paper

   ☐ in electronic form

   b. (time)

   ☐ in the international application as filed

   ☐ together with the international application in electronic form

   ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53849

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	5-6, 14-15	YES
	Claims	1-4, 7-13, 16-20	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1-4, 7-13 and 16-20 lack novelty under PCT Article 33(2) as being anticipated by US 2010/0079355 A1 to Kilpatrick, II et al. (hereinafter 'Kilpatrick').

As per claims 1, 10 and 19, Kilpatrick discloses a dual-screen user device (101, fig. 3-4, para [0084]-[0087]) with a corresponding method of controlling the size of a dual-screen application displayed thereon (2600, para [0136]-[0143], [0232]), the device comprising: a first screen including a first display area (second panel 104, para [0084]); a second screen including a second display area (first panel 102, para [0084]); a hinge (905, fig. 9, para [0109]) configured to connect the first screen with the second screen (first fold location 110, para [0084], [0110]); a first sensor (folding configuration/tilt sensors 874 or 876, fig. 8, para [0098]) configured to produce a first signal indicative of a position of the hinge (fig. 15-20, para [0111]); a non-transitory computer-readable medium having stored thereon instructions that cause a computing system to execute a method (tangible storage medium, para [0291]), the instructions comprising: instructions configured to display the dual-screen application on the first screen and the second screen of the multi-screen device (fig. 3, para [0085]); instructions configured to receive a first predetermined input that represents an instruction to deactivate displaying to the second screen of the multi-screen device (e.g., first panel 102, fig. 4, may be in a powered down configuration, para [0087]); instructions configured to respond to the first predetermined input with an output that deactivates the second screen display and causes the dual-screen application to be displayed in a single-screen mode on the first screen of the multi-screen device (fig. 4, para [0087], [0091]-[0092]); instructions configured to receive a second predetermined input that represents an instruction to reactivate displaying to the second screen of the multi -screen device (e.g., third display surface 3006, fig. 30, may have a display area ... that performs other functions, such as a night light, displaying one or more ornamental designs, a user specified display, para [0147]); instructions configured to respond to the second predetermined input with an output that reactivates the second screen display and causes the dual-screen application to continue to be displayed in a single-screen mode on the first screen of the multi-screen device (fig. 30, para [0147]); instructions configured to determine, based at least partially on the first signal, that the hinge has moved from a first position in which the first and second screens are open to a second position in which the first and second screens are closed (para [0117], [0149]).

As per claims 2 and 11, Kilpatrick further discloses that in the first predetermined input is caused by a physical change of state to the multi -screen device (e.g., fully folded to the closed position, para [0092]).

As per claims 3 and 12, Kilpatrick further discloses that in the second predetermined input is caused by a physical change of state to the multi-screen device (e.g., folded in a triangular shape, para [0094]).

As per claims 4 and 13, Kilpatrick further discloses that the physical change of state is effected by at least one of opening the multi-screen device and closing the multi-screen device (para [0149]).

As per claims 7 and 16, Kilpatrick further discloses that responding to the second predetermined input further includes referring to modal rules of the dual-screen application (para [0138]), wherein the modal rules define the manner in which the dual-screen application is displayed to the first screen (para [0137]).

As per claims 8 and 17, Kilpatrick further discloses that the modal rules define that the dual-screen application is maximized to display data to the first and second screens (execute the application across all three displays 102, 104, and 106 in a different physical configuration, para [0091]).

As per claims 9 and 18, Kilpatrick further discloses that the modal rules define that the dual-screen application is displayed to the first screen (execute an application at a single display ... 104, ... in one physical configuration, para [0091]).

As per claim 20, Kilpatrick further discloses that the second position is the first predetermined input, and first position is the second predetermined input (para [0117], [0149]).

---(Please See Supplemental Box)---

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:
Box V. 2 Citations and Explanations

Claims 5-6 and 14-15 lack an inventive step under PCT Article 33(3) as being obvious over Kilpatrick in view of US 2010/0223553 A1 (Madden).

As per claims 5 and 14, Kilpatrick further discloses that the multi-screen device is running a second application (performs other functions, such as a night light, displaying one or more ornamental designs, a user specified display, para [0147]); but does not explicitly disclose that the second application stored in a virtual stack. However, Madden discloses a computing environment 100 (fig. 1) capable of providing a multi-media-center (para [0025]) including a media-player (307, fig. 3, para [0036]) stored in a virtual stack (para [0044]). It would have been obvious to one of ordinary skill in the art to apply Madden's virtual stack to store Kilpatrick's application in order to keep track of usage of the applications (para [0044] of Madden).

As per claims 6 and 15, Kilpatrick further discloses that after receiving the second predetermined input (e.g., When displays are folded in a triangular shape, para [0094]), the second application is displayed to the second screen of the multi-screen device (para [0147]).

Claims 1-20 have industrial applicability as defined by PCT Article 33(4), because the subject matter can be made or used in industry.

BPJ/SAE

PATENT COOPERATION TREATY

RECEIVED
MAR 02 2012
SHERIDAN ROSS, P.C.
DOCKETING DEPT.

From the INTERNATIONAL SEARCHING AUTHORITY

To:
BRENT P. JOHNSON
SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

COPY SENT TO IFW DEPT
Date 3/7/12 (YDC)
Original → BPJ

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference 6583-44-PCT	Date of mailing (day/month/year) 28 FEB 2012 **FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US 11/53884	International filing date (day/month/year) 29 September 2011 (29.09.2011)
Applicant IMERJ LLC	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

   Filing of amendments and statement under Article 19:
   The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

   When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

   Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70

   For more detailed instructions, see *PCT Applicant's Guide*, International Phase, paragraphs 9.004 – 9.011.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

   ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with any request to forward the texts of both the protest and the decision thereon to the designated Offices.

   ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

   The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. Following the expiration of 30 months from the priority date, these comments will also be made available to the public.

   Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90*bis*.1 and 90*bis*.3).

   Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

   In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

   For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the *PCT Applicant's Guide*, National Chapters.

Name and mailing address of the ISA/ Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer Lee W. Young PCT Helpdesk: 571-272-4300 Telephone No. PCT OSP: 571-272-7774

Form PCT/ISA/220 (July 2010)

Ex. 1002, p. 308
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 6583-44-PCT	**FOR FURTHER ACTION**	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US 11/53884	International filing date *(day/month/year)* 29 September 2011 (29.09.2011)	(Earliest) Priority Date *(day/month/year)* 01 October 2010 (01.10.2010)
Applicant IMERJ LLC		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

   a. With regard to the **language**, the international search was carried out on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

   b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).

   c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (see Box No. II).

3. ☐ **Unity of invention is lacking** (see Box No. III).

4. With regard to the **title**,

   ☒ the text is approved as submitted by the applicant.

   ☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

   ☒ the text is approved as submitted by the applicant.

   ☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

   a. the figure of the **drawings** to be published with the abstract is Figure No. 8

   ☒ as suggested by the applicant.

   ☐ as selected by this Authority, because the applicant failed to suggest a figure.

   ☐ as selected by this Authority, because this figure better characterizes the invention.

   b. ☐ none of the figures is to be published with the abstract.

Ex. 1002, p. 309
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 11/53884

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G06F 3/048 (2012.01)
USPC - 715/769
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
USPC: 715/769

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 715/717-718, 764-769, 778
IPC(8): G06F 3/048 (2012.01)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST(PGPB, USPT, EPAB, JPAB), Google Scholar, Google Patents; Search terms used: Plurality, multi, dual, composite, display, screen, portrait, landscape, layout, GUI, user interface, input, enter, command, orientation, position sensor, precedence, priority, order, accelerometer, vertical, horizontal, lock,

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X -- Y	US 2010/0245209 A1 (MILLER et al.) 30 September 2010 (30.09.2010) entire document, especially Abstract, para [0003], [0004], [0005], [0013], [0018], [0019], [0020], [0023]-[0026], [0031], [0032], [0038]; Fig. 1, 3;	1-6, 8-13, 15-19 ---------- 7, 14, 20
Y	US 2008/0174570 A1 (JOBS et al.) 24 July 2008 (24.07.2008) entire document, especially para [0956], [0957], [0965], [0966]; Fig.44A, 44B, 44C	7, 14, 20
A	US 2008/0122796 A1 (JOBS et al.) 29 May 2008 (29.05.2008) entire document	1-20
A,P	US 2010/0321275 A1 (HINCKLEY et al.) 23 December 2010 (23.12.2010) entire document	1-20
A	US 2010/0081475 A1 (CHIANG et al.) 01 April 2010 (01.04.2010) entire document	1-20
A	US 2010/0182247 A1 (PETSCHNIGG et al.) 22 July 2010 (22.07.2010) entire document	1-20
A	US 2009/0254861 A1 (SEETHARAMAKRISHNAN et al.) 08 October 2009 (08.10.2009) entire document	1-20
A	US 2010/0064244 A1 (KILPATRICK, II et al.) 11 March 2010 (11.03.2010) entire document	1-20
A	HINCKLEY et al.,"Codex: A Dual Screen Tablet Computer", CHI 2009 April 4-9, 2009(04-09.04.2009)<http://www.dgp.utoronto.ca/~ravin/papers/chi2009_codex.pdf>entire document	1-20
A	MARTELIN, "Orientation Awareness In Declarative User Interface Languages for Mobile Devices: A Case Study and Evaluation", June 1 2010 (01.06.2010) <http://lib.tkk.fi/Dipl/2010/urn100291.pdf> entire document	1-20

☒ Further documents are listed in the continuation of Box C. ☐

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
03 February 2012 (03.02.2012)	28 FEB 2012
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 11/53884

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	LEE, "Developing Orientation-Aware Android Application", June 11, 2010 (11.06.2010), <http://www.devx.com/wireless/Article/40792/1954>, entire document	1-20

Form PCT/ISA/210 (continuation of second sheet) (July 2009)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: BRENT P. JOHNSON
SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	28 FEB 2012
Applicant's or agent's file reference 6583-44-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US 11/53884	29 September 2011 (29.09.2011)	01 October 2010 (01.10.2010)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06F 3/ 048 (2012.01)
USPC - 715/769

Applicant IMERJ LLC

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☒ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Fom PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	03 February 2012 (03.02.2012)	Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

3 0 FEB 2012

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53884

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

   ☐ on paper

   ☐ in electronic form

   b. (time)

   ☐ in the international application as filed

   ☐ together with the international application in electronic form

   ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53884

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	7, 14, 20	YES
	Claims	1-6, 8-13, 15-19	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1-6, 8-13, 15-19 lack novelty under PCT Article 33(2) as being anticipated by US 2010/0245209 A1 to Miller et al., (herein after "Miller").

As per claim 1, Miller discloses a method of controlling data displayed by a multi-screen device (Abstract, a dual-display mobile computer device), comprising:
determining that the multi-screen device has been placed in a dual display state with a first desktop or application displayed on a first display and second desktop or application displayed on a second display, wherein data from the first and second desktops/application are displayed on their respective first and second displays (para [0003], [0004]);
determining that the first and second desktops or applications are each displayed in respective first portrait or landscape orientations (para [0005], [0018] ,[0019], [0020], [0021]);
determining that an input is received from at least one of the desktops or applications, or from the device, or from a user, instructing that the first orientations of one of the desktops or applications should change to a second different orientation (para [0001], [0017], [0026], [0027] the position data and the position sensors keep track of the previous orientation for the displays and decide what the orientation the first and second display should be displayed after received an input); and
in response to determining that an input is received, causing the data from a selected one of the first or second desktops or applications to be displayed in the second different orientation (para [0001], [0017], [0026], [0027], [0031]).

As per claim 2, Miller further discloses the first and second desktops or applications are displayed in first portrait orientations, and in response to determining that the input is received, causing the data from a selected one of the first or second desktops or applications to be displayed in a landscape orientation as the second different orientation, and the non-selected one of the first or second desktops remains in the first portrait orientation (para [0001], [0013], [0017], [0026], [0027], [0031]).

As per claim 3, Miller further discloses the first and second desktops or applications are displayed in first landscape orientations, and in response to determining that the input is received, causing the data from a selected one of the first or second desktops or applications to be displayed in a portrait orientation as the second different orientation, and the non-selected one of the first or second desktops remains in the first landscape orientation (para [0001], [0013], [0017], [0026], [0027], [0031]).

As per claim 4, Miller further discloses the input is at least one of a user input, application input, or device input comprising data received from a position sensor or an accelerometer (para [0013], [0024], [0026], [0031], [0038], and Fig. 1).

As per claim 5, Miller further discloses a user sets a control protocol to determine precedence in which input from a plurality of inputs controls the data from the selected one of the first or second desktops or applications to be displayed in the second different orientation (para [0013], wherein the position controller can determine how one display is positioned relative to the other, also see parea [0023], [0024], [0025], [0026]).

As per claim 6, Miller further discloses the at least one input comprises a plurality of inputs including application (para [0016], [0047], Fig. 5), device (para[0047], Fig. 5), and user inputs (para [0031]).

-- See supplemental sheet --

Ex. 1002, p. 319
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53884

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fu lly supported by the description, are made:
Specification contains a typographic error.

[0097] 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.

The first sentence should be:
[0097] Communications between various components of the device 100 can be carried by one or more buses 220.

The item number "222" is not found in Fig. 2.

Ex. 1002, p. 321
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:
-- Box V.2 Citations and explanations

As per claim 8, Miller discloses a non-transitory computer-readable medium having stored thereon instructions that cause a computing system to execute a method, the instructions comprising (para [0050]-[0051], computer readable media; [0023], computer-executable instructions):
instructions configured to determine that the multi-screen device has been placed in a dual display state with a first desktop or application displayed on a first display and second desktop or application displayed on a second display, wherein data from the first and second desktops/application are displayed on their respective first and second displays (para [0034], [0003], [0004], a dual-display computer mobile device);
instructions configured to determine that the first and second desktops or applications are each displayed in respective first portrait or landscape orientations (para [0005], [0018], [0019], [0020], [0021]);
instructions configured to determine that an input is received from at least one of the desktops or applications, or from the device, or from a user, instructing that the first orientations of one of the desktops or applications should change to a second different orientation (para [0001], [0017], [0026], [0027] the position data and the position sensors keep track of the previous orientation for the displays and decide what the orientation the first and second display should be displayed after received an input); and
in response to determining that an input is received, instructions configured to cause the data from a selected one of the first or second desktops or applications to be displayed in the second different orientation (para [0001], [0017], [0026], [0027], [0031]).

As per claim 9, Miller further discloses the first and second desktops or applications are displayed in first portrait orientations, and in response to determining that the input is received, causing the data from a selected one of the first or second desktops or applications to be displayed in a landscape orientation as the second different orientation, and the non-selected one of the first or second desktops remains in the first portrait orientation (para [0001], [0013], [0017], [0026], [0027], [0031]).

As per claim 10, Miller further discloses the first and second desktops or applications are displayed in first landscape orientations, and in response to determining that the input is received, causing the data from a selected one of the first or second desktops or applications to be displayed in a portrait orientation as the second different orientation, and the non-selected one of the first or second desktops remains in the first landscape orientation (para [0001], [0013], [0017], [0026], [0027], [0031]).

As per claim 11, Miller further discloses the input is at least one of a user input, application input, or device input comprising data received from a position sensor or an accelerometer(para [0013], [0024], [0026], [0031], [0038], and Fig. 1).

As per claim 12, Miller further discloses a user sets a control protocol to determine precedence in which input from a plurality of inputs controls the data from the selected one of the first or second desktops or applications to be displayed in the second different orientation (para [0013], wherein the position controller can determine how one display is positioned relative to the other, also see parea [0023], [0024], [0025], [0026]).

As per claim 13, Miller further discloses the at least one input comprises a plurality of inputs including application (para [0016], [0047], Fig. 5), device (para[0047], Fig. 5), and user inputs (para [0031]).

As per claim 15, Miller discloses a multi-screen user device (Abstract, a dual-display mobile computer device), comprising :
a first display including a first display area (e.g. first display 108, para [0003],[0012],[0018]);
a second display including a second display area (e.g. second display 112, para [0003],[0012].[0018]);
an independent display orientation element configured to manage a plurality of inputs corresponding to data to determine the orientation of desktops or applications displayed on the first and second displays (para [0001], [0017], [0026], [0027] the position data and the position sensors keep track of the previous orientation for the displays and decide what the orientation the first and second display should be displayed after received an input); and
a computer-readable medium having instructions stored thereon that include(para [0050]-[0051], computer readable media; [0023], computer-executable instructions):
a first set of instructions configured to determine that the multi-screen device has been placed in a dual display state with a first desktop or application displayed on a first display and second desktop or application displayed on a second display, wherein data from the first and second desktops/application are displayed on their respective first and second displays (para [0034], [0035]) ;
a second set of instructions configured to determine that the first and second desktops or applications are each displayed in respective first portrait or landscape orientations (para [0005], [0018], [0019], [0020], [0021]);
a third set of instructions configured to determine that an input is received from at least one of the desktops or applications, or from the device, or from a user, instructing that the first orientations of one of the desktops or applications should change to a second different orientation (para [0001], [0017], [0026], [0027] the position data and the position sensors keep track of the previous orientation for the displays and decide what the orientation the first and second display should be displayed after received an input); and
in response to determining that an input is received, a fourth set of instructions configured to cause the data from a selected one of the first or second desktops or applications to be displayed in the second different orientation (para [0001], [0017], [0026], [0027], [0031]).
-- see supplemental sheet --

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:
-- Box V.2 Citations and explanations

As per claim 16, Miller further discloses the first and second desktops or applications are displayed in first portrait orientations, and in response to determining that the input is received, causing the data from a selected one of the first or second desktops or applications to be displayed in a landscape orientation as the second different orientation, and the non-selected one of the first or second desktops remains in the first portrait orientation (para [0001], [0013], [0017], [0026], [0027], [0031]).

As per claim 17, Miller further discloses the the first and second desktops or applications are displayed in first landscape orientations, and in response to determining that the input is received, causing the data from a selected one of the first or second desktops or applications to be displayed in a portrait orientation as the second different orientation, and the non-selected one of the first or second desktops remains in the first landscape orientation (para [0001], [0013], [0017], [0026], [0027], [0031]).

As per claim 18, Miller further discloses the a user sets a control protocol to determine precedence in which input from a plurality of inputs controls the data from the selected one of the first or second desktops or applications to be displayed in the second different orientation (para [0013], wherein the position controller can determine how one display is positioned relative to the other, also see parea [0023], [0024], [0025], [0026]).

As per claim 19, Miller further discloses wherein the at least one input comprises a plurality of inputs including application, device, and user inputs (para [0016], [0047], Fig. 5), device (para[0047], Fig. 5), and user inputs (para [0031]).

Claims 7, 14 and 20 lack an inventive step under PCT Article 33(3) as being obvious over Miller in view of US 2008/0174570 A1 by Jobs et al. (hereinafter 'Jobs').

As per claim 7, Miller discloses a method of controlling data displayed by a multi-screen device. Miller further discloses in response to determining that the user input is received, causing the data from another selected one of the first or second desktops or applications to remain displayed in the first orientation while the data from the selected one of the first or second desktops is displayed in the second different orientation (para [0004], [0024] [0025], wherein "determine a position angle between the first display and the second display that correlates to a display posture of the mobile computer device", which means the first orientation of one of the desktops or applications is part of state data, which is been kept, until the position is changed; also see Fig. 3). Miller does not expressly disclose the first orientation of one of the desktops or applications should be locked. However, Jobs discloses the first orientation of one of the desktops or applications should be locked. Jobs teaches it in an analogous prior art, see Jobs's para [0956], [0957], [0965], [0966] and Fig. 44A, 44B, and 44C. It would have been obvious to one of ordinary skill in the art to add Miller's controlling data displayed by a multi-screen device with the first orientation of one of the desktops or applications should be locked feature because the addition would keep track of the display information (Jobs's para [0956], [0957]).

As per claim 14, Miller discloses a non-transitory computer-readable medium having stored thereon instructions that cause a computing system to execute a method, wherein instructions configured to determine that the multi-screen device. Miller further discloses in response to determining that the user input is received, causing the data from another selected one of the first or second desktops or applications to remain displayed in the first orientation while the data from the selected one of the first or second desktops is displayed in the second different orientation (para [0004], [0024] [0025], wherein "determine a position angle between the first display and the second display that correlates to a display posture of the mobile computer device", which means the first orientation of one of the desktops or applications is part of state data, which is been kept, until the position is changed; also see Fig. 3). Miller does not expressly disclose the first orientation of one of the desktops or applications should be locked. However, Jobs discloses the first orientation of one of the desktops or applications should be locked. Jobs teaches it in an analogous prior art, see Jobs's para [0956], [0957], [0965], [0966] and Fig. 44A, 44B, and 44C. It would have been obvious to one of ordinary skill in the art to add Miller's controlling data displayed by a multi-screen
device with the first orientation of one of the desktops or applications should be locked feature because the addition would keep track of the display information (Jobs's para [0956], [0957]).

As per claim 20, Miller discloses a multi-screen user device. Miller further discloses in response to determining that the user input is received, causing the data from another selected one of the first or second desktops or applications to remain displayed in the first orientation while the data from the selected one of the first or second desktops is displayed in the second different orientation (para [0004], [0024] [0025], wherein "determine a position angle between the first display and the second display that correlates to a display posture of the mobile computer device", which means the first orientation of one of the desktops or applications is part of state data, which is been kept, until the position is changed; also see Fig. 3). Miller does not expressly disclose the first orientation of one of the desktops or applications should be locked. However, Jobs discloses the first orientation of one of the desktops or applications should be locked. Jobs teaches it in an analogous prior art, see Jobs's para [0956], [0957], [0965], [0966] and Fig. 44A, 44B, and 44C. It would have been obvious to one of ordinary skill in the art to add Miller's controlling data displayed by a multi-screen device with the first orientation of one of the desktops or applications should be locked feature because the addition would keep track of the display information (Jobs's para [0956], [0957]).

Claims 1-20 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

Ex. 1002, p. 325
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

SAC/MRE

PATENT COOPERATION TREATY

COPY GIVEN TO IDS DEPT
Date: 2/27/12 (CAS)
Original → MRE

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:
MATTHEW R. ELLSWORTH
SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

RECEIVED
FEB 27 2012

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference 6583-46-PCT	Date of mailing *(day/month/year)* 21 FEB 2012 **FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US 11/53914	International filing date *(day/month/year)* 29 September 2011 (29.09.2011)
Applicant IMERJ LLC	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

   Filing of amendments and statement under Article 19:
   The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

   When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

   Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70

   For more detailed instructions, see *PCT Applicant's Guide*, International Phase, paragraphs 9.004 – 9.011.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

   ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with any request to forward the texts of both the protest and the decision thereon to the designated Offices.

   ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

   The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. Following the expiration of 30 months from the priority date, these comments will also be made available to the public.

   Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90*bis*.1 and 90*bis*.3).

   Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

   In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

   For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the *PCT Applicant's Guide*, National Chapters.

Name and mailing address of the ISA/ Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer Lee W. Young PCT Helpdesk: 571-272-4300 Telephone No. PCT OSP: 571-272-7774

Form PCT/ISA/220 (July 2010)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 6583-46-PCT	**FOR FURTHER ACTION**	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US 11/53914	International filing date *(day/month/year)* 29 September 2011 (29.09.2011)	(Earliest) Priority Date *(day/month/year)* 01 October 2010 (01.10.2010)
Applicant IMERJ LLC		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of:

☒ the international application in the language in which it was filed.

☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (see Box No. II).

3. ☐ **Unity of invention is lacking** (see Box No. III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 7

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

Ex. 1002, p. 327
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 11/53914

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G09G 5/00 (2012.01)
USPC - 345/659
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC(8): G09G 5/00 (2012.01)
USPC: 345/659

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 715/700, 702; 345/1.1, 1.3, 156, 650 (keyword limited; terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWest; Google Scholar; Google Patents; FreePatentsOnline. Search terms used: device apparatus personal-electronic electronic-device electronic-apparatus, portable handheld PDA smartphone cell-phone mobile-phone, dual-screen dual-display two-display two-screen pair-display pair-screen multiple-screen multiple-display, region...

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2006/0082518 A1 (RAM) 20 April 2006 (20.04.2006) entire document, especially Abstract; Figs.29, 129, 130; para [0066], [0066], [0072], [0074], [0076], [0105], [0113], [0205], [0206]	1 - 20
Y	US 2008/0174570 A1 (JOBS et al.) 24 July 2008 (24.07.2008) entire document, especially Abstract; para [0009], [0109], [0114], [0573], [0578], [0939]	1 - 20
A	US 2010/0088532 A1 (POLLOCK et al.) 08 April 2010 (08.04.2010) entire document	1 - 20

☐ Further documents are listed in the continuation of Box C. ☐

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
09 February 2012 (09.02.2012)	21 FEB 2012
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (July 2009)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: MATTHEW R. ELLSWORTH
SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	21 FEB 2012
Applicant's or agent's file reference 6583-46-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US 11/53914	29 September 2011 (29.09.2011)	01 October 2010 (01.10.2010)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G09G 5/00 (2012.01)
USPC - 345/659

Applicant IMERJ LLC

1. This opinion contains indications relating to the following items:

- [X] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [X] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [X] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Fom PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	09 February 2012 (09.02.2012)	Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53914

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/53914

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	1 - 20	YES
	Claims	None	NO
Inventive step (IS)	Claims	None	YES
	Claims	1 - 20	NO
Industrial applicability (IA)	Claims	1 - 20	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1 - 20 lack an inventive step under PCT Article 33(3) as being obvious over US 2006/0082518 A1 (Ram) in view of US 2008/0174570 A1 to Jobs et al. (hereinafter, 'Jobs').

As to claims 1, 9 and 15, Ram teaches a method, a non-transitory computer-readable medium and a multi-screen user device, comprising (para [0076]): a first screen including a first display area (para [0066]); a second screen including a second display area (para [0066]); a sensor configured to produce an electrical signal indicative of a rotation of the user device (para [0074], [0076]); and a computer-readable medium having instructions stored thereon that include: determining that the multi-screen device has been rotated a first time from a first open state to a second different open state, wherein data from a first and second application are displayed while the device is in the first open state and wherein data from the first application is not displayed while the device is in the second open state (para [0072], [0113], [0105]; Fig.29); determining that the device has been rotated a second time after the first time (para [0113]);

but fails to explicitly disclose in response to determining that the device has been rotated the second time, automatically causing data from the second application and a third application to be displayed on the device.

However, Jobs does teach in response to determining that the device has been rotated the second time, automatically causing data from the second application and a third application to be displayed on the device (para [0578]).

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the multiple monitor display apparatus of Ram with the touch screen device, method, and graphical user interface for determining commands by applying heuristics of Jobs, because Ram and Jobs are directed to systems and methods for a dual-screen view in response to rotation. Furthermore, users and designers benefit from systems and/or methods adapted for allowing a smooth transition into and out of a pause (e.g., a smooth lowering and raising of the sound volume for the music player), because such systems/methods allow for use with a computing device with a touch screen display comprising detecting one or more finger contacts with the touch screen display, applying one or more heuristics to the one or more finger contacts to determine a command for the device, and processing the command (Jobs, para [0009]).

As to claims 2, 10, 16 and 17, in combination with Jobs, Ram further discloses wherein the first open state corresponds to an open portrait state and wherein the second open state corresponds to an open landscape state in which a first screen of the device is positioned above a second screen of the device, wherein the data from the first application is displayed on the first screen prior to the rotation of the device, and wherein the data from the second application is displayed on the second screen prior to the rotation of the device (para [0205]; Figs.129, 130).

As to claims 3, 11 and 18, in combination with Ram, Jobs further discloses wherein the data from the second application is displayed on the first screen after the rotations of the device, wherein the data from the third application is displayed on the second screen after the rotations of the device, wherein the data from the third application is not displayed prior to the rotation of the device, and wherein data from the first application is not displayed after the rotations of the device (para [0109] - not display; para [0578] - applications; para [0939] - rotation).

As to claims 4, 12 and 20, in combination with Ram, Jobs further discloses wherein the rotation of the device is determined, at least in part, based on sensor data received from an accelerometer (para [0114]).

As to claims 5, 13 and 19, in combination with Jobs, Ram further discloses wherein the device is in the open portrait state after the device is rotated the second time (para [0205]).

As to claims 6, 7 and 14, in combination with Jobs, Ram further discloses wherein the data from the second device is automatically displayed on both the first and second screens while the device is in the second open state and wherein data from the second application is displayed in a landscape max output configuration (para [0206]).

As to claim 8, in combination with Ram, Jobs further discloses wherein the third application is different from the first application (para [0573]).

Claims 1 - 20 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

Ex. 1002, p. 331
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:
There is an apparent typographic error in claim 11, originally submitted as follows:

11. The method of claim 10, wherein the data from the second application is displayed on the first screen after the rotations of the device, wherein the data from the third application is displayed on the second screen after the rotations of the device, wherein the data from the third application is not displayed prior to the rotation of the device, and wherein data from the first application is not displayed after the rotations of the device.

Since claim 10 is a "computer-readable medium" claim rather than a "method" claim, it lacks adequate antecedent basis to support claim 11; thus, for purposes of this international search, claim11 will be interpreted as follows:

11. The computer-readable medium of claim 10, wherein the data from the second application is displayed on the first screen after the rotations of the device, wherein the data from the third application is displayed on the second screen after the rotations of the device, wherein the data from the third application is not displayed prior to the rotation of the device, and wherein data from the first application is not displayed after the rotations of the device.

Ex. 1002, p. 332
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

TFW|SAC

RECEIVED
FEB 29 2012
SHERIDAN ROSS, P.C.
DOCKETING DEPT.

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:
DOUGLAS W. SWARTZ
SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

COPY GIVEN TO IDS DEPT
Date: 3/6/12 (YDC)
Original → TFW

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference 6583-48-PCT	Date of mailing *(day/month/year)* 22 FEB 2012 **FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US 11/54032	International filing date *(day/month/year)* 29 September 2011 (29.09.2011)
Applicant IMERJ LLC	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

   Filing of amendments and statement under Article 19:
   The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

   When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

   Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70

   For more detailed instructions, see *PCT Applicant's Guide*, International Phase, paragraphs 9.004 – 9.011.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

   ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with any request to forward the texts of both the protest and the decision thereon to the designated Offices.

   ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

   The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. Following the expiration of 30 months from the priority date, these comments will also be made available to the public.

   Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90*bis*.1 and 90*bis*.3).

   Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

   In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

   For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the *PCT Applicant's Guide*, National Chapters.

Name and mailing address of the ISA/ Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer Lee W. Young PCT Helpdesk: 571-272-4300 Telephone No. PCT OSP: 571-272-7774

Form PCT/ISA/220 (July 2010)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 6583-48-PCT	**FOR FURTHER ACTION**	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US 11/54032	International filing date *(day/month/year)* 29 September 2011 (29.09.2011)	(Earliest) Priority Date *(day/month/year)* 01 October 2010 (01.10.2010)
Applicant IMERJ LLC		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of ✓ sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of:

☒ the international application in the language in which it was filed.

☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (see Box No. II).

3. ☐ **Unity of invention is lacking** (see Box No. III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 18B

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☒ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

Ex. 1002, p. 334
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 11/54032

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G06F 3/041 (2012.01)
USPC - 345/173
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC: G06F 3/041 (2012.01)
USPC: 345/173

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
IPC: G06F 3/041 (2012.01)
USPC: 345/173; 345/1.1; 345/4; 345/30; 715/864; 345/1.1-1.3; 715/790, 791, 794-797, 761 (keyword limited; terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
pubWEST(USPT,PGPB,EPAB,JPAB,USOCR); Google(Web); Search terms used: two dual multi display multiscreen modal pop-up window maintain persist in view within rotation orientation tilt swap

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2010/0085274 A1 (Kilpatrick, II et al.) 08 April 2010 (08.04.2010), entire document especially Fig. 29, 34, 35, 39 to 41; para [0091], [0106], [0138], [0154], [0156], [0172], [0178], [0182], [0204], [0250], [0254]	1-21
Y	US 2006/0206825 A1 (Dorn et al.) 14 September 2006 (14.09.2006), entire document especially para [0059]-[0079]; Fig. 1B, 2	1-21
A	US 2010/0100842 A1 (Kim) 22 April 2010 (22.04.2010), entire document	1-21

☐ Further documents are listed in the continuation of Box C. ☐

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search
07 February 2012 (07.02.2012)

Date of mailing of the international search report
22 FEB 2012

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450
Facsimile No. 571-273-3201

Authorized officer:
Lee W. Young
PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (July 2009)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: DOUGLAS W. SWARTZ
SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	22 FEB 2012
Applicant's or agent's file reference 6583-48-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US 11/54032	29 September 2011 (29.09.2011)	01 October 2010 (01.10.2010)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06F 3/041 (2012.01)
USPC - 345/173

Applicant IMERJ LLC

1. This opinion contains indications relating to the following items:

- [X] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [X] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 *bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Fom PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	07 February 2012 (07.02.2012)	Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/54032

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

Ex. 1002, p. 337
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US 11/54032

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	1-21	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-21	NO
Industrial applicability (IA)	Claims	1-21	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1-21 lack an inventive step under PCT Article 33(3) as being obvious over US 2010/0085274 A1 to Kilpatrick, II et al. (hereinafter 'Kilpatrick') in view of US 2006/0206825 A1 to Dorn et al. (hereinafter 'Dorn').

Regarding claim 1, Kilpatrick teaches a method, comprising: receiving, by processor executable in a multi-display communication device, a command to at least one of minimize and maximize a set of related windows from a common multi-screen application (activate and suspend, i.e., maximize or minimize size, windows generated from a common / same multiscreen applications / window, e.g., a desktop icon panel application . Fig. 29, 34, 35; para [0091], [0154], [0156], [0172], [0204], [0254]), the set of related windows comprising a higher level window and a lower level window at least one of displayed and to be displayed by different touch sensitive displays and at least one of the higher and lower level windows comprises a pop-up window launched from one of the higher and lower level windows (vertically arranged and pop-up / overlapped windows concurrently displayed on multiple touchscreens; para [0091], [0106], [0250], [0254]); applying, by the processor executable, the following rules: (B1) when the set of related windows is to be maximized (a set of windows are sized to fill panels; Fig. 6, 35; para [0138], [0154]), maintaining the pop-up window in view in the one of the higher and lower level windows from which the pop-up window was launched (a popup window is positioned / launched on top of a window / panel that generated it; Fig. 36; para [0106], [0250], [0254]); and (B2) when the set of related windows is to be minimized (a set of windows are sized smaller or suspended / hidden; Fig. 36, 37; para [0156], [0178], [0182], [0204], [0209]), applying at least one of the following sub-rules: (B2i) when the at least one of the higher and lower level windows comprising the pop-up window is displayed after the set of related windows is minimized, maintaining the pop-up window in view (minimize / suspend the other application windows while the pop-up continues to be displayed, e.g., the pop-up remains the active window and suspends or displays .over. / minimizes the others; para [0106], [0177], [0178], [0182], [0254]); and (B2ii) when the at least one of the higher and lower level windows comprising the pop-up window is not to be displayed after the set of related windows is minimized, cancelling automatically the pop-up window (interaction with the pop-up window can cause .auto-exit. of a combination of applications, e.g., a call pop window notification / indicia is displayed on top and the user launches / accepts the videoconferencing request and the other programs and the pop-up are exited or suspended in response; para [0137], [0178], [0182], [0254]), but fails to disclose middleware; a modal launched from one of the higher and lower level windows; the modal is displayed after the set of related windows is minimized, maintaining the modal in view; and the modal is not to be displayed after the set of related windows is minimized. Dorn teaches middleware (a window manger intercept window interface instructions for processing by the system; para [0071]); a modal launched from one of the higher and lower level windows (a parent window HF launces a child pop-up / higher window from a related set / group, i.e., modal KF; Fig. 1B, 2; para [0062]-[0064], [0074]); the modal is displayed after the set of related windows is minimized, maintaining the modal in view (the pop up is maintained in view / top-most on multiple monitors even when preceding windows on both screens are repositions and/or hidden / overlapped, i.e., minimized; para [0062], [0063], [0071], [0072], [0075]); and the modal is not to be displayed after the set of related windows is minimized (after the the user inputs or closes the dialogue with the popup it is minimized to ensure pop-up controls are seen and to enhance the security and reliability of the system by ensuring pop-ups are visible in any orientation of windows or monitors; para [0062], [0064], [0065]). It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to modify the method of Kilpatrick to include middleware; a modal launched from one of the higher and lower level windows; the modal is displayed after the set of related windows is minimized, maintaining the modal in view; and the modal is not to be displayed after the set of related windows is minimized as taught by Dorn for the advantage of enhancing security, reliability and convenience.

Regarding claim 2, Kilpatrick teaches rule (B1) applies and wherein the processor executable middleware selects a predetermined touch sensitive display for displaying one of the higher and lower level windows and causes the other of the higher and lower level windows to be displayed on the other touch sensitive display (the touch sensitive displays and window can be dragged and reoriented / rotated such that the layers of windows change screens, e.g., by dragging or landscape to portrait manipulations; Fig. 34 to 37; Fig. 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]).

Regarding claim 3, Dorn teaches prior to maximization, the modal is displayed on the higher level window and wherein the modal was launched from the lower level window (the modal is generate on top / higher than any of the other previous main windows; Fig. 1B, 2; para [0068], [0074], [0075]).

--CONTINUED IN SUPPLEMENTAL BOX--

Ex. 1002, p. 338
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**

Continuation of:
Box No. V. 2. Citations and explanations:

Regarding claim 4, Kilpatrick teaches a drag or flick command is received (drag or quick / shake movements; para [0156], [0288], [0289]), wherein neither the higher nor lower level window is displayed in the predetermined touch sensitive display when the command is received, and wherein the lower level window appears to move from the other touch sensitive display to the predetermined touch sensitive display, thereby revealing the higher level window in the other touch sensitive display (the users input causes reorientation of the window layers and window to partially or completely switch to other displays; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]).

Regarding claim 5, Kilpatrick teaches a drag or flick command is received (drag or quick / shake movements; para [0156], [0288], [0289]), wherein the lower level window is in the predetermined touch sensitive display when the command is received, wherein the higher level window appears to move from the predetermined touch sensitive display to the other touch sensitive display, whereby the lower level window is displayed by the predetermined touch sensitive display and the higher level window is displayed by the other touch sensitive display (the users input causes reorientation of the window layers and window to partially or completely switch to other displays; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]).

Regarding claim 6, Kilpatrick teaches rule (B2i) applies (minimize / suspend the other application windows while the pop-up continues to be displayed, e.g., the pop-up remains the active window and suspends or displays .over. / minimizes the others; para [0106], [0177], [0178], [0182], [0254]).

Regarding claim 7, Kilpatrick teaches rule (B2ii) applies (interaction with the pop-up window can cause .auto-exit. of a combination of applications, e.g., a call pop window notification / indicia is displayed on top and the user launches / accepts the videoconferencing request and the other programs are exited or suspended in response; para [0137], [0178], [0182], [0254]).

Regarding claim 8, Kilpatrick teaches rule (B2) applies, wherein the processor executable middleware selects a touch sensitive display for displaying the higher level window and ceases to display the lower level window on the other touch sensitive display (a set of windows are sized smaller or suspended / hidden; Fig. 36, 37; para [0156], [0178], [0182], [0204], [0209]), wherein a drag or flick command is received (drag or quick / shake movements; para [0156], [0288], [0289]), wherein the higher and lower level window are concurrently displayed in the selected and other touch sensitive displays when the command is received (para [0091]), wherein the lower level display is displayed in the selected touch sensitive display when the command is received, and wherein the higher level window appears to move from the other touch sensitive display to the selected touch sensitive display, thereby covering the lower level window in the other touch sensitive display (the users input causes reorientation of the window layers and window to partially or completely switch to other displays; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]).

Regarding claim 9, Kilpatrick teaches rule (B2) applies, wherein the processor executable middleware selects a touch sensitive display for displaying the higher level window and ceases to display the lower level window on the other touch sensitive display (a set of windows are sized smaller or suspended / hidden; Fig. 36, 37; para [0156], [0178], [0182], [0204], [0209]), wherein a drag or flick command is received (drag or quick / shake movements; para [0156], [0288], [0289]), wherein the higher and lower level window are concurrently displayed in the selected and other touch sensitive displays when the command is received (para [0091]), wherein the higher level display is displayed in the selected touch sensitive display when the command is received, and wherein the lower level window appears to move from the other touch sensitive display to the selected touch sensitive display, thereby disappearing under the higher level window in the other touch sensitive display (the users input causes reorientation of the window layers and window to partially or completely switch to other displays or are hidden / suspended, i.e., disappear; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0156], [0157], [0162]).

Regarding claim 10, Kilpatrick teaches a non-transient and tangible computer readable medium comprising processor executable instructions to perform the steps of claim 1 (Fig. 8).

Regarding claim 11, Kilpatrick teaches a multi-display communication device operable to perform the steps of claim 1 (Fig. 8).

--CONTINUED IN NEXT SUPPLEMENTAL BOX--

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:
Box No. V. 2. Citations and explanations:

Regarding claim 12, Kilpatrick teaches a method, comprising: receiving, by processor executable in a multi-display communication device comprising first and second touch sensitive displays (Fig. 8), a command to rotate a display from one of portrait and landscape display mode to the other of portrait and landscape display mode (Fig. 39 to 41; para [0105], [0177]), wherein the first touch sensitive display comprises a pop-up window launched from at least one of a higher and lower level window in a set of related windows comprising a higher level window and a lower level window at least one of displayed and to be displayed by different touch sensitive displays (vertically arranged and pop-up / overlapped windows concurrently displayed on multiple touchscreens; para [0091], [0106], [0250], [0254]); applying, by the processor executable, the following rules: (B1) when the first and second touch sensitive displays are rotated from a portrait display mode to a landscape display mode (the touch sensitive displays and window can be dragged and reoriented / rotated such that the layers of windows change screens, e.g., by dragging or landscape to portrait manipulations; Fig. 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]), applying at least one of the following subrules: (B1i) when the first touch sensitive display is, relative to the second touch sensitive display, in an upper position after rotation and the first touch sensitive display displays the at least one of a higher and lower level window, displaying the pop-up window in the first touch sensitive display after rotation (the users input causes reorientation of the window layers and window to partially or completely switch to other displays or are hidden / suspended, i.e., disappear; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0156], [0157], [0162]); and (B1ii) when the first touch sensitive display is, relative to the second touch sensitive display, in a lower position after rotation and neither the first nor second touch sensitive display displays the at least one of a higher and lower level window (the users input causes reorientation of the window layers and window to partially or completely switch to other displays or are hidden / suspended, i.e., disappear; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0156], [0157], [0162]), not displaying, after rotation, the pop-up window in either the first or second touch sensitive display (interaction with the pop-up window can cause .auto-exit. of a combination of applications, e.g., a call pop window notification / indicia is displayed on top and the user launches / accepts the videoconferencing request and the other programs and the pop-up are exited or suspended in response; para [0137], [0178], [0182], [0254]); and (B2) when the first and second touch sensitive displays are rotated from a landscape display mode to a portrait display mode, displaying the pop-up window, after rotation, on the one of the first and second touch sensitive displays on which the pop-up window was launched (the users input causes reorientation of the window layers and pop-up window to partially or completely switch to other displays; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]), but fails to disclose middleware; a modal launched from one of the higher and lower level windows; displaying the modal in the first touch sensitive display after rotation; and not displaying, after rotation, the modal in either the first or second touch sensitive display. Dorn teaches middleware (a window manger intercept window interface instructions for processing by the system; para [0071]); a modal launched from one of the higher and lower level windows (a parent window HF launces a child pop-up / higher window from a related set / group, i.e., modal KF; Fig. 1B, 2; para [0062]-[0064], [0074]); displaying the modal in the first touch sensitive display after rotation; and not displaying, after rotation, the modal in either the first or second touch sensitive display (the pop up is maintained in view / top-most on multiple monitors even when preceding windows on both screens are repositions and/or hidden / overlapped, i.e., minimized; para [0062], [0063], [0071], [0072], [0075]); and the modal is not to be displayed after the set of related windows is minimized (after the the user inputs or closes the dialogue with the popup it is minimized to ensure pop-up controls are seen and to enhance the security and reliability of the system by ensuring pop-ups are visible in any orientation of windows or monitors; para [0062], [0064], [0065]). It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to modify the method of Kilpatrick to include middleware; a modal launched from one of the higher and lower level windows; displaying the modal in the first touch sensitive display after rotation; and not displaying, after rotation, the modal in either the first or second touch sensitive display as taught by Dorn for the advantage of enhancing security, reliability and convenience.

Regarding claim 13, Kilpatrick teaches the set of related windows is maximized before and after rotation (a set of windows are sized to fill panels; Fig. 6, 35, 39 to 41; para [0138], [0154]).

Regarding claim 14, Kilpatrick teaches rule (B1i) applies (the users input causes reorientation of the window layers and window to partially or completely switch to other displays or are hidden / suspended, i.e., disappear; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0156], [0157], [0162]).

Regarding claim 15, Kilpatrick teaches after rotation, the at least one of a higher and lower level window displaying the modal is displayed on both the first and second touch sensitive displays (the users input causes reorientation of the window layers and window to partially or completely switch to other displays; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]) and wherein, during rotation, a lower level window displayed on the second touch sensitive display is covered by the at least one of a higher and lower level window (the touch sensitive displays and window can be dragged and reoriented / rotated such that the layers of windows cover or hide bottom / lower windows; Fig. 34 to 37; Fig. 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]).

Regarding claim 16, Kilpatrick teaches before rotation, the at least one of a higher and lower level window displaying the modal is displayed on the second touch sensitive display, wherein, after rotation, the modal is displayed on the first touch sensitive display, and wherein, after rotation, the at least one of a higher and lower level window is displayed on both the first and second touch sensitive displays (the users input causes reorientation of the window layers and the pop-up window to partially or completely switch to other displays; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]).

Regarding claim 17, Kilpatrick teaches rule (B1ii) applies (the users input causes reorientation of the window layers and window to partially or completely switch to other displays or are hidden / suspended, i.e., disappear; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0156], [0157], [0162]).

--CONTINUED IN NEXT SUPPLEMENTAL BOX--

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**

Continuation of:
Box No. V. 2. Citations and explanations:

Regarding claim 18, Kilpatrick teaches the modal is canceled automatically at least one of during and after rotation (interaction with the pop-up window during or after a rotation can cause .auto-exit. of a combination of applications, e.g., a call pop window notification / indicia is displayed on top and the user launches / accepts the videoconferencing request in a rotated configuration and the other programs and the pop-up are exited or suspended in response; para [0137], [0178], [0182], [0254]).

Regarding claim 19, Kilpatrick teaches rule (B2) applies (the users input causes reorientation of the window layers and pop-up window to partially or completely switch to other displays; Fig. 34 to 36, 39 to 41; para [0091], [0106], [0118], [0137], [0144], [0157], [0162]).

Regarding claim 20, Kilpatrick teaches a non-transient and tangible computer readable medium comprising processor executable instructions to perform the steps of claim 12 (Fig. 8).

Regarding claim 21, Kilpatrick teaches a multi-display communication device operable to perform the steps of claim 12 (Fig. 8).

Claims 1-21 have industrial applicability as defined by PCT Article 33(4), because the subject matter can be made or used in industry.

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:

ROBERT G.CROUCH

MARSH FISCHMANN & BREYFOGLE LLP 8055 E. TUFTS AVENUE, SUITE 450 DENVER CO 80237 USA

RECEIVED

MAY -7 2012

MARSH FISCHMANN & BREYFOGLE LLP

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference 50224-02123	Date of mailing *(day/month/year)* 27 APRIL 2012 (27.04.2012) **FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. **PCT/US2011/052811**	International filing date *(day/month/year)* **22 SEPTEMBER 2011 (22.09.2011)**

Applicant

IMERJ, LLC et al

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70

For more detailed instructions, see *PCT Applicant's Guide*, International Phase, paragraphs 9.004 . 9.011.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with any request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. Following the expiration of 30 months from the priority date, these comments will also be made available to the public.

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90bis.1 and 90bis.3).

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19months.

For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the PCT Applicant's Guide, National Chapters.

Name and mailing address of the ISA/KR Korean Intellectual Property Office Government Complex-Daejeon, 189 Cheongsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer COMMISSIONER Telephone No. 82-42-481-8753

Form PCT/ISA/220 (July 2010)

* Attention

Copies of the documents cited in the international search report can be searched in the following Korean Intellectual Property Office English website for three months from the date of mailing of the international search report.

http://www.kipo.go.kr/en/ => PCT Services => PCT Services

ID : PCT international application number
PW : **YGRQ5LQH**

Inquiries related to PCT International Search Report or Written Opinion prepared by KIPO as an International Searching Authority can be answered not only by KIPO but also through IPKC (Intellectual Property Korea Center), located in Vienna, VA, which functions as a PCT Help Desk for PCT applicants.

Homepage: http://www.ipkcenter.com
Email: ipkc@ipkcenter.com
Phone: +1 703 388 1066
Fax: +1 703 388 1084

Ex. 1002, p. 343
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
50224-02123		
International application No.	International filing date *(day/month/year)*	(Earliest) Priority Date *(day/month/year)*
PCT/US2011/052811	**22 SEPTEMBER 2011 (22.09.2011)**	01 OCTOBER 2010 (01.10.2010)
Applicant		
IMERJ, LLC et al		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of **8** sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**
   a. With regard to the **language**, the international search was carried out on the basis of:
      ☒ the international application in the language in which it was filed
      ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))
   b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).
   c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.
2. ☐ **Certain claims were found unsearchable** (See Box No. II)
3. ☐ **Unity of invention is lacking** (See Box No. III)
4. With regard to the **title,**
   ☒ the text is approved as submitted by the applicant.
   ☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract,**
   ☒ the text is approved as submitted by the applicant.
   ☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. With regard to the drawings,
   a. the figure of the **drawings** to be published with the abstract is Figure No. **8**
      ☒ as suggested by the applicant.
      ☐ as selected by this Authority, because the applicant failed to suggest a figure.
      ☐ as selected by this Authority, because this figure better characterizes the invention.
   b. ☐ none of the figure is to be published with the abstract.

Ex. 1002, p. 344
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2011/052811

A. CLASSIFICATION OF SUBJECT MATTER

G06F 3/01(2006.01)i, G06F 3/14(2006.01)i, G06F 3/048(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G06F 3/01; G06F 1/16; G09G 5/00; G06F 3/041

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: portrait, landscape, rotation, etc.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 2010-0245256 A1 (ESTRADA JULIO et al.) 30 September 2010 See paragraphs [0017]-[0026], [0029]-[0032]; and figures 5-6.	1-2,14 3
Y	US 2010-0245209 A1 (MILLER MICHAEL C. et al.) 30 September 2010 See paragraphs [0012]-[0013]; and figures 1-5.	3
A	US 2008-0062625 A1 (JEFFREY BATIO) 13 March 2008 See paragraphs [0009]-[0277]; and figures 1-5C.	1-20
A	US 2008-0165144 A1 (FORSTALL SCOTT et al.) 10 July 2008 See paragraphs [0153]-[0185]; and figures 5A-6D.	1-20
A	US 2010-0085382 A1 (LUNDQVIST PATRIK N. et al.) 08 April 2010 See paragraphs [0081],[0087],[0162],[0165], figures 39-41.	1-20

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents,such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
24 APRIL 2012 (24.04.2012)	**27 APRIL 2012 (27.04.2012)**
Name and mailing address of the ISA/KR Korean Intellectual Property Office Government Complex-Daejeon, 189 Cheongsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer MOK, Seung Kyun Telephone No. 82-42-481-8514

Form PCT/ISA/210 (second sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2011/052811

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2010-0245256 A1	30.09.2010	KR 10-2011-0139697 A	29.12.2011
		WO 2010-111053 A2	30.09.2010
		WO 2010-111053 A3	13.01.2011
		WO 2010-111053 A3	30.09.2010
US 2010-0245209 A1	30.09.2010	None	
US 2008-0062625 A1	13.03.2008	None	
US 2008-0165144 A1	10.07.2008	AU 1999-24673 A1	09.08.1999
		AU 1999-24673 B2	17.04.2003
		AU 2006-280672 A1	22.02.2007
		AU 2006-280672 B2	27.10.2011
		AU 2006-291338 A1	22.03.2007
		AU 2006-291338 B2	20.01.2011
		AU 2006-295353 A1	05.04.2007
		AU 2006-295354 A1	05.04.2007
		AU 2006-295354 B2	21.10.2010
		AU 2007-283771 A1	03.04.2008
		AU 2007-283771 B2	01.10.2009
		AU 2007-283771 B8	01.10.2009
		AU 2007-283771 C1	03.06.2010
		AU 2007-286532 A1	03.04.2008
		AU 2007-286532 A8	03.04.2008
		AU 2007-286532 B2	06.08.2009
		AU 2007-286532 B8	06.08.2009
		AU 2007-286532 C1	27.05.2010
		AU 2007-289019 A1	01.05.2008
		AU 2007-289019 B2	04.02.2010
		AU 2007-292383 A1	13.03.2008
		AU 2007-292384 A1	13.03.2008
		AU 2007-292384 B2	01.12.2011
		AU 2007-292473 A1	13.03.2008
		AU 2007-292473 B2	20.05.2010
		AU 2007-342102 A1	17.07.2008
		AU 2007-342102 B2	21.04.2011
		AU 2008-100004 A4	14.02.2008
		AU 2008-100004 A4	14.02.2008
		AU 2008-100004 B4	05.06.2008
		AU 2008-100004 B4	05.06.2008
		AU 2008-100004 B4	14.02.2008
		AU 2008-100010 A4	14.02.2008
		AU 2008-100010 B4	05.06.2008
		AU 2008-100010 B4	14.02.2008
		AU 2008-100011 A4	14.02.2008
		AU 2008-100011 B4	14.02.2008
		AU 2008-100011 B4	05.06.2008
		AU 2008-201540 A1	05.06.2008
		AU 2008-201540 A8	05.06.2008

Ex. 1002, p. 346
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/US2011/052811

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		AU 2008-201540 B2	03.09.2009
		AU 2008-203349 A1	20.11.2008
		AU 2008-203349 B2	28.07.2011
		AU 2008-204988 A1	17.07.2008
		AU 2008-204988 B2	21.04.2011
		AU 2008-271011 A1	08.01.2009
		CA 2318815 A1	29.07.1999
		CA 2318815 C	10.08.2004
		CA 2618803 A1	22.02.2007
		CA 2618803 C	16.11.2010
		CA 2627118 A1	13.03.2008
		CA 2658177 A1	17.07.2008
		CA 2658413 A1	13.03.2008
		CA 2658413 C	01.11.2011
		CA 2661856 A1	13.03.2008
		CA 2661886 A1	13.03.2008
		CA 2662134 A1	13.03.2008
		CA 2662137 A1	13.03.2008
		CA 2666438 A1	02.05.2008
		CA 2735309 A1	13.03.2008
		CA 2759066 A1	17.07.2008
		CA 2759090 A1	17.07.2008
		CA 2759091 A1	17.07.2008
		CA 2762030 A1	13.03.2008
		CN 101052939 A0	10.10.2007
		CN 101198925 A0	11.06.2008
		CN 101263443 A0	10.09.2008
		CN 101263448 A0	10.09.2008
		CN 101356492 A	28.01.2009
		CN 101356493 A	28.01.2009
		CN 101384977 A	11.03.2009
		CN 101384977 B	08.12.2010
		CN 101390039 A	18.03.2009
		CN 101482794 A	15.07.2009
		CN 101482795 A	15.07.2009
		CN 101529367 A	09.09.2009
		CN 101529368 A	09.09.2009
		CN 101529874 A	09.09.2009
		CN 101529878 A	09.09.2009
		CN 101535938 A	16.09.2009
		CN 101535939 A	16.09.2009
		CN 101535940 A	16.09.2009
		CN 101542424 A	23.09.2009
		CN 101558372 A	14.10.2009
		CN 101563667 A	21.10.2009
		CN 101617288 A	30.12.2009
		CN 101627359 A	13.01.2010
		CN 101627361 A	13.01.2010
		CN 101627617 A	13.01.2010
		CN 101641946 A	03.02.2010

Ex. 1002, p. 347
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		CN 101682585 A	24.03.2010
		CN 101727275 A	09.06.2010
		CN 101802817 A	11.08.2010
		CN 101861562 A	13.10.2010
		CN 101861562 A	13.10.2010
		CN 101893992 A	24.11.2010
		DE 202008000260 U1	26.06.2008
		EP 1058924 A1	13.12.2000
		EP 1621989 A2	01.02.2006
		EP 1621989 A3	17.05.2006
		EP 1717677 A2	02.11.2006
		EP 1717677 A3	02.01.2008
		EP 1717678 A2	02.11.2006
		EP 1717678 A3	21.01.2009
		EP 1717679 A2	02.11.2006
		EP 1717679 A3	04.02.2009
		EP 1717680 A2	02.11.2006
		EP 1717680 A3	24.03.2010
		EP 1717681 A2	02.11.2006
		EP 1717681 A3	14.01.2009
		EP 1717682 A2	02.11.2006
		EP 1717682 A3	16.04.2008
		EP 1717683 A2	02.11.2006
		EP 1717683 A3	17.03.2010
		EP 1717684 A2	02.11.2006
		EP 1717684 A3	23.01.2008
		EP 1774427 A2	18.04.2007
		EP 1774429 A2	18.04.2007
		EP 1925613 A1	28.05.2008
		EP 1934685 A1	25.06.2008
		EP 1934686 A1	25.06.2008
		EP 1934693 A2	25.06.2008
		EP 1969453 A2	17.09.2008
		EP 2000893 A2	10.12.2008
		EP 2000893 A3	14.01.2009
		EP 2000894 A2	10.12.2008
		EP 2000894 A3	14.01.2009
		EP 2059868 A2	20.05.2009
		EP 2059868 B1	29.09.2010
		EP 2060096 A1	20.05.2009
		EP 2067094 A1	10.06.2009
		EP 2067094 B1	20.04.2011
		EP 2069895 A1	17.06.2009
		EP 2069895 B1	30.11.2011
		EP 2069898 A1	17.06.2009
		EP 2069899 A1	17.06.2009
		EP 2069982 A2	17.06.2009
		EP 2074500 A2	01.07.2009
		EP 2078239 A2	15.07.2009
		EP 2080087 A2	22.07.2009

Ex. 1002, p. 348
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		EP 2082313 A2	29.07.2009
		EP 2095214 A2	02.09.2009
		EP 2095616 A1	02.09.2009
		EP 2106652 A1	07.10.2009
		EP 2118728 A1	18.11.2009
		EP 2118729 A2	18.11.2009
		EP 2118730 A2	18.11.2009
		EP 2119199 A1	18.11.2009
		EP 2126676 A1	02.12.2009
		EP 2126678 A2	02.12.2009
		EP 2126678 B1	02.11.2011
		EP 2160877 A1	10.03.2010
		EP 2160877 B1	22.02.2012
		EP 2166438 A1	24.03.2010
		EP 2256605 A2	01.12.2010
		EP 2256605 A3	04.01.2012
		EP 2256606 A2	01.12.2010
		EP 2256606 A3	14.12.2011
		EP 2256607 A2	01.12.2010
		EP 2256607 A3	14.12.2011
		EP 2282275 A1	09.02.2011
		EP 2296078 A2	16.03.2011
		EP 2336869 A1	22.06.2011
		EP 2387215 A1	16.11.2011
		EP 2390779 A1	30.11.2011
		EP 2390799 A1	30.11.2011
		EP 2402848 A1	04.01.2012
		EP 2402849 A1	04.01.2012
		EP 2402850 A1	04.01.2012
		EP 2402851 A1	04.01.2012
		JP 04-743919 B2	20.05.2011
		JP 04-763695 B2	17.06.2011
		JP 04-767901 B2	24.06.2011
		JP 04-860534 B2	11.11.2011
		JP 04-892061 B2	22.12.2011
		JP 2002-501271 A	15.01.2002
		JP 2007-184006 A	19.07.2007
		JP 2007-184007 A	19.07.2007
		JP 2007-184008 A	19.07.2007
		JP 2007-193840 A	02.08.2007
		JP 2007-213599 A	23.08.2007
		JP 2007-226820 A	06.09.2007
		JP 2007-242035 A	20.09.2007
		JP 2007-308470 A	29.11.2007
		JP 2008-508600 A	21.03.2008
		JP 2008-508601 A	21.03.2008
		JP 2009-509234 A	05.03.2009
		JP 2009-509235 A	05.03.2009
		JP 2009-509236 A	05.03.2009
		JP 2009-522697 A	11.06.2009

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		JP 2010-170573 A	05.08.2010
		JP 2010-503082 A	28.01.2010
		JP 2010-503121 A	28.01.2010
		JP 2010-503124 A	28.01.2010
		JP 2010-503125 A	28.01.2010
		JP 2010-503126 A	28.01.2010
		JP 2010-503127 A	28.01.2010
		JP 2010-503332 A	28.01.2010
		JP 2010-507870 A	11.03.2010
		JP 2010-515978 A	13.05.2010
		JP 2010-515980 A	13.05.2010
		JP 2011-023004 A	03.02.2011
		JP 2011-023005 A	03.02.2011
		JP 2011-065654 A	31.03.2011
		JP 2011-146067 A	28.07.2011
		JP 4743919 B2	10.08.2011
		JP 4763695 B2	31.08.2011
		KR 10-0595911 B1	07.07.2006
		KR 10-0595912 B1	07.07.2006
		KR 10-0595915 B1	05.07.2006
		KR 10-0595917 B1	05.07.2006
		KR 10-0595920 B1	05.07.2006
		KR 10-0595922 B1	05.07.2006
		KR 10-0595924 B1	05.07.2006
		KR 10-0595925 B1	05.07.2006
		KR 10-0595926 B1	05.07.2006
		KR 10-0766627 B1	15.10.2007
		KR 10-0950120 B1	30.03.2010
		KR 10-0950831 B1	02.04.2010
		KR 10-0958490 B1	17.05.2010
		KR 10-0974986 B1	09.08.2010
		KR 10-0984596 B1	30.09.2010
		KR 10-1001120 B1	14.12.2010
		KR 10-1012598 B1	15.02.2011
		KR 10-1019900 B1	04.03.2011
		KR 10-1110501 B1	09.02.2012
		KR 10-1128572 B1	23.04.2012
		KR 10-2009-0046960 A	11.05.2009
US 2010-0085382 A1	08.04.2010	CA 2734528 A1	11.03.2010
		CA 2735014 A1	11.03.2010
		CA 2735233 A1	11.03.2010
		CA 2735750 A1	11.03.2010
		CN 102150094 A	10.08.2011
		CN 102150095 A	10.08.2011
		CN 102150096 A	10.08.2011
		CN 102150097 A	10.08.2011
		CN 102150098 A	10.08.2011
		CN 102150099 A	10.08.2011
		CN 102150120 A	10.08.2011

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/US2011/052811

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		CN 102150126 A	10.08.2011
		EP 2332038 A1	15.06.2011
		EP 2335130 A1	22.06.2011
		EP 2335132 A1	22.06.2011
		EP 2340471 A1	06.07.2011
		EP 2342625 A1	13.07.2011
		EP 2347315 A1	27.07.2011
		EP 2347316 A1	27.07.2011
		EP 2347317 A1	27.07.2011
		KR 10-2011-0052743 A	18.05.2011
		KR 10-2011-0053265 A	19.05.2011
		KR 10-2011-0053269 A	19.05.2011
		KR 10-2011-0055718 A	25.05.2011
		KR 10-2011-0056314 A	26.05.2011
		KR 10-2011-0058875 A	01.06.2011
		KR 10-2011-0058879 A	01.06.2011
		KR 10-2011-0066165 A	16.06.2011
		KR 10-2011-0069803 A	23.06.2011
		KR20110058875A	01.06.2011
		TW 201024976 A	01.07.2010
		TW 201024977 A	01.07.2010
		TW 201027045 A	16.07.2010
		TW 201027046 A	16.07.2010
		TW 201028827 A	01.08.2010
		TW 201028828 A	01.08.2010
		TW 201033891 A	16.09.2010
		TW 201033892 A	16.09.2010
		US 2010-0060664 A1	11.03.2010
		US 2010-0064244 A1	11.03.2010
		US 2010-0064536 A1	18.03.2010
		US 2010-0066643 A1	18.03.2010
		US 2010-0079355 A1	01.04.2010
		US 2010-0085274 A1	08.04.2010
		US 2011-0126141 A1	26.05.2011
		US 2011-0216064 A1	08.09.2011
		WO 2010-028394 A1	11.03.2010
		WO 2010-028397 A1	11.03.2010
		WO 2010-028399 A1	11.03.2010
		WO 2010-028402 A1	11.03.2010
		WO 2010-028403 A1	11.03.2010
		WO 2010-028404 A1	11.03.2010
		WO 2010-028405 A1	11.03.2010
		WO 2010-028406 A1	11.03.2010
		WO 2010-028406 A8	11.03.2010
		WO 2010-028407 A1	11.03.2010

Ex. 1002, p. 351
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
ROBERT G.CROUCH

MARSH FISCHMANN & BREYFOGLE LLP 8055 E.
TUFTS AVENUE, SUITE 450 DENVER CO 80237 USA

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing *(day/month/year)*	**27 APRIL 2012 (27.04.2012)**
Applicant's or agent's file reference 50224-02123	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2011/052811	**22 SEPTEMBER 2011 (22.09.2011)**	01 OCTOBER 2010 (01.10.2010)

International Patent Classification (IPC) or both national classification and IPC

G06F 3/01(2006.01)i, G06F 3/14(2006.01)i, G06F 3/048(2006.01)i

Applicant

IMERJ, LLC et al

1. This opinion contains indications relating to the following items:

- [x] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [x] Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.
For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/KR	Date of completion of this opinion	Authorized officer
Korean Intellectual Property Office Government Complex-Daejeon, 189 Cheongsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	24 APRIL 2012 (24.04.2012)	MOK, Seung Kyun Telephone No.82-42-481-8514

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2011/052811

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed

   ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of:

   a. a sequence listing filed or furnished
      ☐ on paper
      ☐ in electronic form

   b. time of filing or furnishing
      ☐ contained in the international application as filed.
      ☐ filed together with the international application in electronic form.
      ☐ furnished subsequently to this Authority for the purposes of search.

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

Ex. 1002, p. 353
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2011/052811

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	3-13,15-20	YES
	Claims	1-2,14	NO
Inventive step (IS)	Claims	4-13,15-20	YES
	Claims	1-3,14	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	NONE	NO

2. Citations and explanations :

Reference is made to the following documents:

D1: US 2010-0245256 A1 (ESTRADA JULIO et al.) 30 September 2010
D2: US 2010-0245209 A1 (MILLER MICHAEL C. et al.) 30 September 2010
D3: US 2008-0062625 A1 (JEFFREY BATIO) 13 March 2008
D4: US 2008-0165144 A1 (FORSTALL SCOTT et al.) 10 July 2008
D5: US 2010-0085382 A1 (LUNDQVIST PATRIK N. et al.) 08 April 2010

1. Novelty and Inventive Step

1.1 Claims 1-13

1.1.1 Claim 1-3

D1, which is considered to be the closest prior art to the subject matter of claim 1, discloses a touch sensitive computing device comprising: a first sensitive display 34 and a second sensitive display 36; wherein the device has automatically sensed rotation and made appropriate rotations to a material presented on the respective display 34 and 36 (see [0032]). As all of the features of claim 1 are disclosed in D1, this claim is anticipated by D1. Therefore, claim 1 lacks novelty under PCT Article 33(2).

The additional feature of claim 2 depending on claim 1 is identical to the feature of portrait-landscape transition based on a position of the device of D1. Therefore, claim 2 lacks novelty under PCT Article 33(2).

The additional feature of claim 3 depending on claim 2 is identical to the feature of accelerometers as position sensors in D2 (see [0013]). Therefore, claim 3 lacks an inventive step under PCT Article 33(3).

Continued on Supplemental Box

Ex. 1002, p. 354
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

Box V

1.1.2 Claim 4-13

The subject matters of claims 4 and 7 are different from that of D1 in that a handheld computing devices of claims 4 and 7 further include a third orientation different than a first orientation and a second orientation. In addition, this feature is not disclosed in any other available prior art documents D2-D5. Accordingly, claims 4 and 7 are not anticipated by any of the documents, nor are they obvious by the documents, taken alone or in combination. Therefore, claims 4 and 7 are novel and involves an inventive step under PCT Article 33(2) and (3)

Claims 5 and 6 are dependent on claim 4 and claims 8-13 are dependent on claim 7. Therefore, claims 5-6 and 8-13 meet the requirements of PCT Article 33(2) and (3).

1.2 Claim 14

Independent Claim 14 relates to a handheld computing device using the method of claim 1. The technical feature of claim 1 essentially corresponds to that of claim 1. Accordingly, the same reasoning applies to claim 14. Thus, claim 14 1 lacks novelty under PCT Article 33(2).

1.3 Claims 15-20

The subject matter of claim 1 differs from these prior art documents in that a first display is in dominant display position and second display is in a servient display position, when a handheld device is in a second orientation. And it is not obvious to a person skilled in the art by the documents, taken alone or in combination. Therefore, claim 15 meets the requirements of PCT Article 33(2) and (3) with respect to novelty and inventive step.

Claims 16-20 are dependent on claim 15 and therefore meet the requirements of PCT Article 33(2) and (3).

2. Industrial Applicability

Claims 1-20 are industrially applicable under PCT Article 33(4).

Ex. 1002, p. 355
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Electronic Acknowledgement Receipt

EFS ID:	15006467
Application Number:	13247728
International Application Number:	
Confirmation Number:	9244
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Customer Number:	22442
Filer:	Douglas W. Swartz/Robert Roe-Pachirat
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-69
Receipt Date:	20-FEB-2013
Filing Date:	28-SEP-2011
Time Stamp:	16:54:08
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		IDS_01.pdf	724760 3253b506ecdad9051ab728f05050c3152f50d9cd	yes	6

	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal Letter		1	3	
	Information Disclosure Statement (IDS) Form (SB08)		4	6	
Warnings:					
Information:					
2	Non Patent Literature	GoogleImages_6pages.pdf	1211655 e82d6bdcb51046e9a191bb08e83031fe6ea680dd	no	6
Warnings:					
Information:					
3	Non Patent Literature	Lapdock_for_Motorola_ATRIX.pdf	219001 71f7dea7bf0b24744dff3152b8d71da1e2e8b6db	no	1
Warnings:					
Information:					
4	Non Patent Literature	Motorola_ATRIX_4G_Laptop_Dock_Review_PhoneArena.pdf	1148773 48529a6454baec0e433a2fed64335744b9bc3d1e	no	6
Warnings:					
Information:					
5	Non Patent Literature	Kyocera_Echo_website_.pdf	1071725 1177c1053765213f247363ee9b510fddcaf202e2	no	6
Warnings:					
Information:					
6	Non Patent Literature	Sony_Tablet_.pdf	616030 23bbd69392b75900dbef8d12d193952fdfa4574a	no	3
Warnings:					
Information:					
7	Non Patent Literature	BURNS_Motorola_ATRIX_4G_Laptop_Dock_Review-AndroidCommunity.pdf	738297 27631c5ca3dd0bad6684a45c86b1b12a9d31f9ca	no	5
Warnings:					
Information:					
8	Non Patent Literature	CATACCHIO_This-smartphone-has-two-huge-screens-that-rotate.pdf	460845 0b6a081598ab0a4bdb4d2b5716f70db6261fe447	no	2
Warnings:					
Information:					

9	Non Patent Literature	HARMAN03_Kyocera_Echo_Dual-screen_Android_Phone.pdf	398409 ae67d9a7d4486f55a1c3bdeff709b4efc8a1724e	no	3
Warnings:					
Information:					
10	Non Patent Literature	HINCKLEY_Codex_A_Dual_Screen_Tablet_Computer.pdf	1903276 041f3a2ae42b22152b05ded3cfa8e845eb2c4ed9	no	10
Warnings:					
Information:					
11	Non Patent Literature	LEE_Developing_Orientation-Aware_Android_Applications.pdf	838860 fc4135598954335f37b52906a0999f92c6601800	no	9
Warnings:					
Information:					
12	Non Patent Literature	MARTELIN_Orientation_Awareness_in_Declarative_User.pdf	6383942 df5d90c3401e098a20b7ae4786e87faf6aaf19d3	no	79
Warnings:					
Information:					
13	Non Patent Literature	STEIN_How_does_the_Motorola_Atrix_4g_Lapdock_compare.pdf	1202946 5c6825da3fbe0ad5955337628b965f36a5894da6	no	7
Warnings:					
Information:					
14	Non Patent Literature	6583-26-PCT_ISR_WO_02-27-2012.pdf	705245 178bed408c438f10bd8e9e794bee08cef30373b6	no	7
Warnings:					
Information:					
15	Non Patent Literature	6583-44-PCT_ISR_WO_02-28-2012.pdf	1229736 78c6fdb8f123635fa0e7054587733624c392f40e	no	19
Warnings:					
Information:					
16	Non Patent Literature	6583-46-PCT_ISR_WO_02-21-2012.pdf	734108 745b34761a1813856387f5d9befc4adc791e0a5d	no	7
Warnings:					
Information:					
17	Non Patent Literature	6583-48-PCT_ISR_WO_02-22-2012.pdf	1123887 37c9833ccf86e8e5d9a4223697501e562af31af4	no	9
Warnings:					
Information:					

18	Non Patent Literature	6583-379-PCT_04-27-2012.pdf	1313619 e94973462ef5eca6f0d48e63dc3382a4ca1b1ba4	no	14
Warnings:					
Information:					
19	Non Patent Literature	6583-183_OA_10-23-2012.pdf	282846 77f9568dc3193bbc531c0b5490613d7529916f81	no	10
Warnings:					
Information:					
			Total Files Size (in bytes):	22307960	

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: 2171
Alexander de Paz	)	Confirmation No.: 9244
Serial No.: 13/247,728	)	Examiner: Andrea C Leggett
Filed: September 28, 2011	)	INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-69	)	
Entitled: "Dual Screen Application Visual Indicator"	)	*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/unpublished patent applications/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. 13/247,817 filed 09/28/11 (Attorney's Ref. No. 6583-26)
- Serial No. 13/247,359 filed 09/28/11 (Attorney's Ref. No. 6583-44)
- Serial No. 13/247,787 filed 09/28/11 (Attorney's Ref. No. 6583-46)
- Serial No. 13/247,311 filed 09/28/11 (Attorney's Ref. No. 6583-48)
- Serial No. 13/247,823 filed 09/28/11 (Attorney's Ref. No. 6583-49)
- Serial No. 13/222,888 filed 08/31/11 (Attorney's Ref. No. 6583-50)
- Serial No. 13/247,514 filed 09/28/11 (Attorney's Ref. No. 6583-51)

Ex. 1002, p. 360
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

- Serial No. 13/248,199 filed 09/29/11 (Attorney's Ref. No. 6583-71)
- Serial No. 13/341,666 filed 12/30/11 (Attorney's Ref. No. 6583-107)
- Serial No. 13/341,634 filed 12/30/11 (Attorney's Ref. No. 6583-108)
- Serial No. 13/627,680 filed 09/26/12 (Attorney's Ref. No. 6583-172)
- Serial No. 13/365,157 filed 02/02/12 (Attorney's Ref. No. 6583-181)
- Serial No. 13/365,153 filed 02/02/12 (Attorney's Ref. No. 6583-182)
- Serial No. 13/365,148 filed 02/02/12 (Attorney's Ref. No. 6583-183)
- Serial No. 12/948,682 filed 11/17/10 (Attorney's Ref. No. 6583-379)

☐ 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 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.

Ex. 1002, p. 361
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

☐	**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.

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: _____

Brent P. Johnson
Registration No. 38031
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: 2/20/13

Ex. 1002, p. 362
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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
13/247,728	09/28/2011	Alexander de Paz	6583-69

CONFIRMATION NO. 9244

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

PUBLICATION NOTICE



Title:DUAL SCREEN APPLICATION VISUAL INDICATOR

Publication No.US-2012-0084676-A1
Publication Date:04/05/2012

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

Ex. 1002, p. 363
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 13/247,728

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	380
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))	17 minus 20 =	*			OR	x 60 =	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	1250

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	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
13/247,728	09/28/2011	2172	1250	6583-69	17	3

CONFIRMATION NO. 9244

22442
SHERIDAN ROSS PC
1560 BROADWAY
SUITE 1200
DENVER, CO 80202

FILING RECEIPT

OC000000050349230

Date Mailed: 10/14/2011

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**

Applicant(s)

Alexander de Paz, Burlington, CANADA;

Assignment For Published Patent Application

IMERJ, LLC, Broomfield, CO

Power of Attorney: None

Domestic Priority data as claimed by applicant

This appln claims benefit of 61/539,884 09/27/2011
and claims benefit of 61/458,150 11/17/2010
and claims benefit of 61/389,000 10/01/2010
and claims benefit of 61/389,117 10/01/2010
and claims benefit of 61/389,087 10/01/2010

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: 10/13/2011

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/247,728**

Projected Publication Date: 04/05/2012

Non-Publication Request: No

Early Publication Request: No

Ex. 1002, p. 365
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Title

DUAL SCREEN APPLICATION VISUAL INDICATOR

Preliminary Class

715

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

Ex. 1002, p. 366
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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).

Ex. 1002, p. 367
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

PTO/SB/14 (11-08)
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	6583-69
	Application Number	
Title of Invention	DUAL SCREEN APPLICATION VISUAL INDICATOR	

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.)

Applicant Information:

Applicant 1 Remove

Applicant Authority ◉ Inventor ○ Legal Representative under 35 U.S.C. 117 ○ Party of Interest under 35 U.S.C. 118

Prefix	Given Name	Middle Name	Family Name	Suffix
	Alexander		de Paz	

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

City	Burlington	**Country Of Residence**[i]	CA
Citizenship under 37 CFR 1.41(b)[i]	CA		

Mailing Address of Applicant:

Address 1	5444 Valleyhigh Drive		
Address 2			
City	Burlington	**State/Province**	ON
Postal Code	L7L 6Z6	**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	docketing@sheridanross.com	Add Email	Remove Email
Email Address	bjohnson@sheridanross.com	Add Email	Remove Email

PTO/SB/14 (11-08)
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	6583-69
	Application Number	
Title of Invention	DUAL SCREEN APPLICATION VISUAL INDICATOR	

Application Information:

Title of the Invention	DUAL SCREEN APPLICATION VISUAL INDICATOR		
Attorney Docket Number	6583-69	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter			
Suggested Class (if any)		**Sub Class (if any)**	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)		**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:

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).
Enter either 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(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	non provisional of	61539884	2011-09-27
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	non provisional of	61458150	2010-11-17
Prior Application Status	Pending		Remove

PTO/SB/14 (11-08)
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	6583-69
	Application Number	
Title of Invention	DUAL SCREEN APPLICATION VISUAL INDICATOR	

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	non provisional of	61389000	2010-10-01
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	non provisional of	61389117	2010-10-01
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	non provisional of	61389087	2010-10-01

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]	Parent 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

Assignee Information:

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

Assignee 1 Remove

If the Assignee is an Organization check here. [X]

Organization Name	Imerj, LLC		
Mailing Address Information:			
Address 1	305 Interlocken Parkway		
Address 2			
City	Broomfield	**State/Province**	CO
Country [i]	US	Postal Code	80021
Phone Number		Fax Number	
Email Address			

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

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.

PTO/SB/14 (11-08)
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	6583-69
	Application Number	
Title of Invention	DUAL SCREEN APPLICATION VISUAL INDICATOR	

Signature	/Brent P. Johnson/			Date (YYYY-MM-DD)	2011-09-28
First Name	Brent	Last Name	Johnson	Registration Number	38031

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.

PTO/SB/01A (01-09)
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	DUAL SCREEN APPLICATION VISUAL INDICATOR

As the below named inventor(s), I/we declare that:

This declaration is directed to:
- [x] The attached application, or
- [ ] United States application or PCT international application number _____ filed on _____
  - [ ] As amended on _____ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;

I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.

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.

All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTOR(S)

Inventor one: Alexander de Paz Date: Sept 26 2011

Signature: _____ Citizen of: CA

Inventor two: _____ Date: _____

Signature: _____ Citizen of: _____

- [ ] Additional inventors or a legal representative are being named on _____ additional form(s) attached hereto.

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.

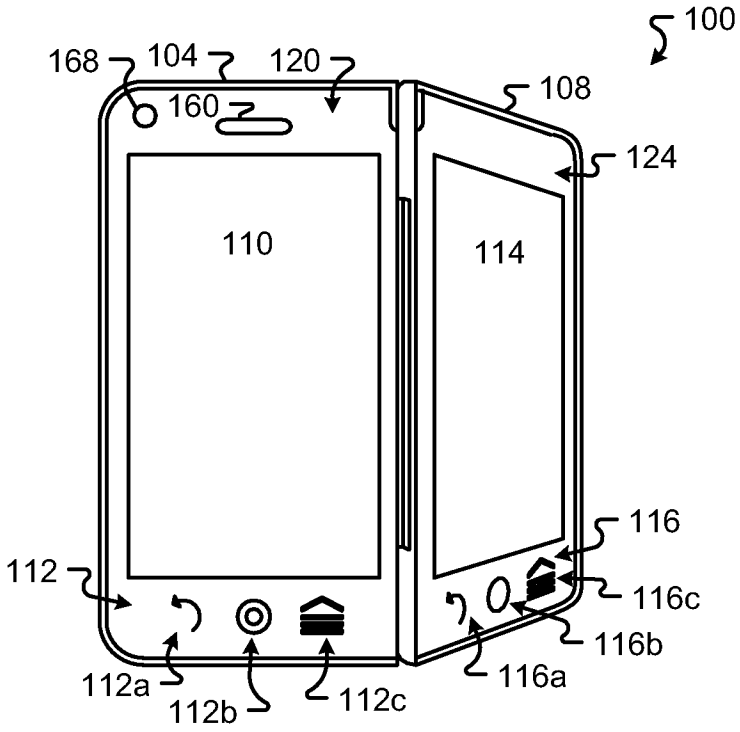

100
168
104
120
160
108
124
110
114
116
112
116c
116b
112a
112b
112c
116a

FIG. 1A

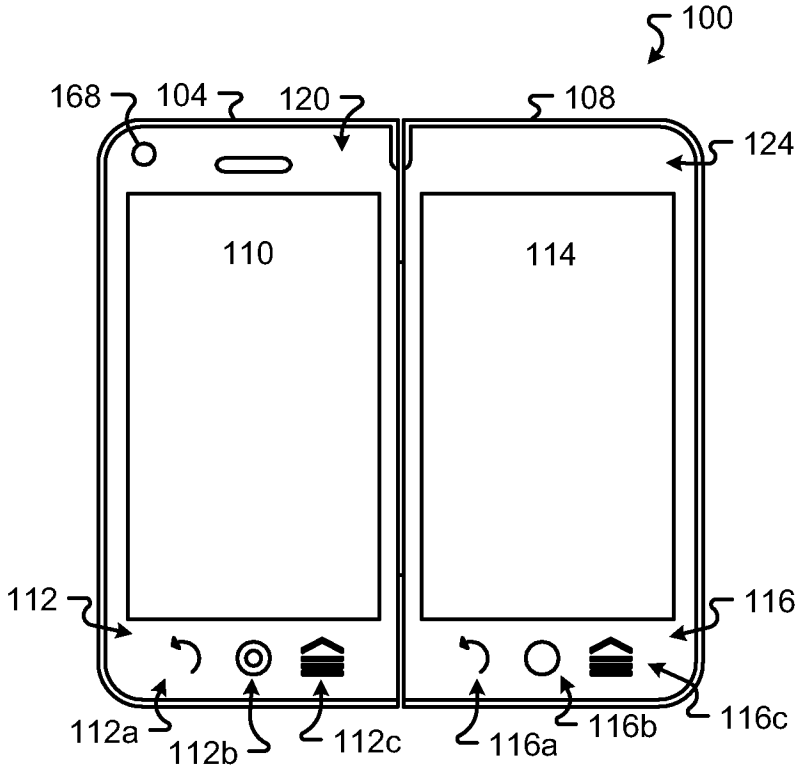

100
168
104
120
108
124
110
114
112
116
112a
112b
112c
116a
116b
116c

FIG. 1B

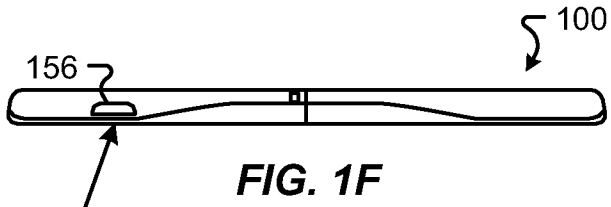


FIG. 1F

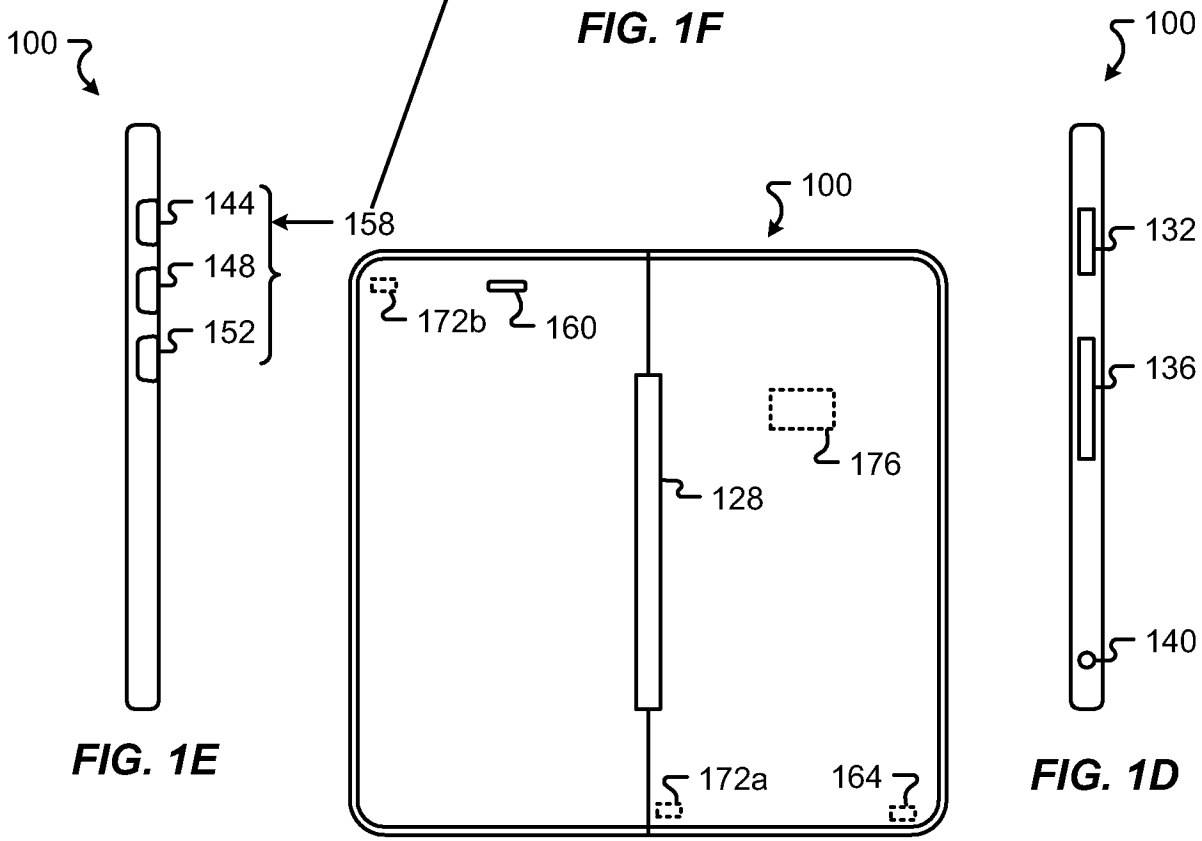


FIG. 1E

FIG. 1C

FIG. 1D

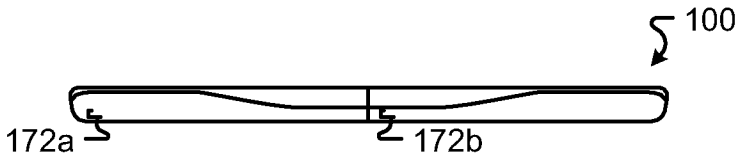


FIG. 1G

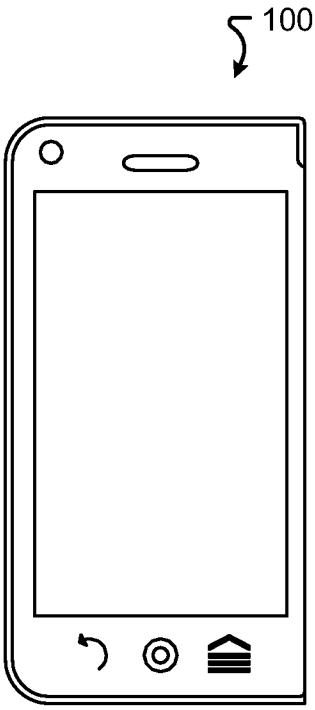


FIG. 1H

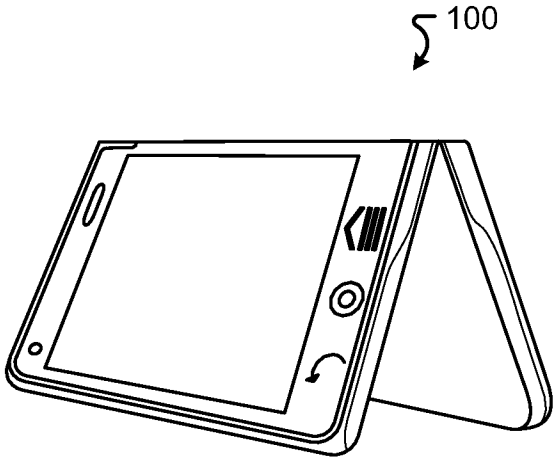


FIG. 1I

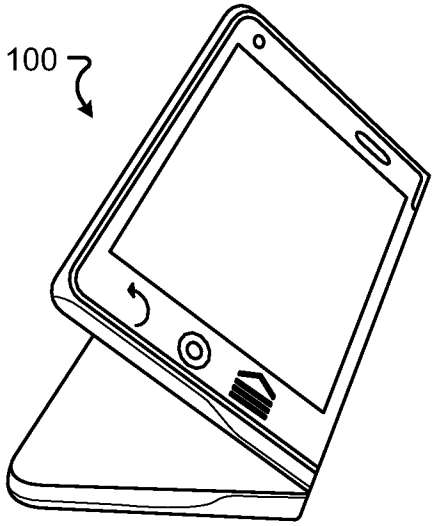


FIG. 1J

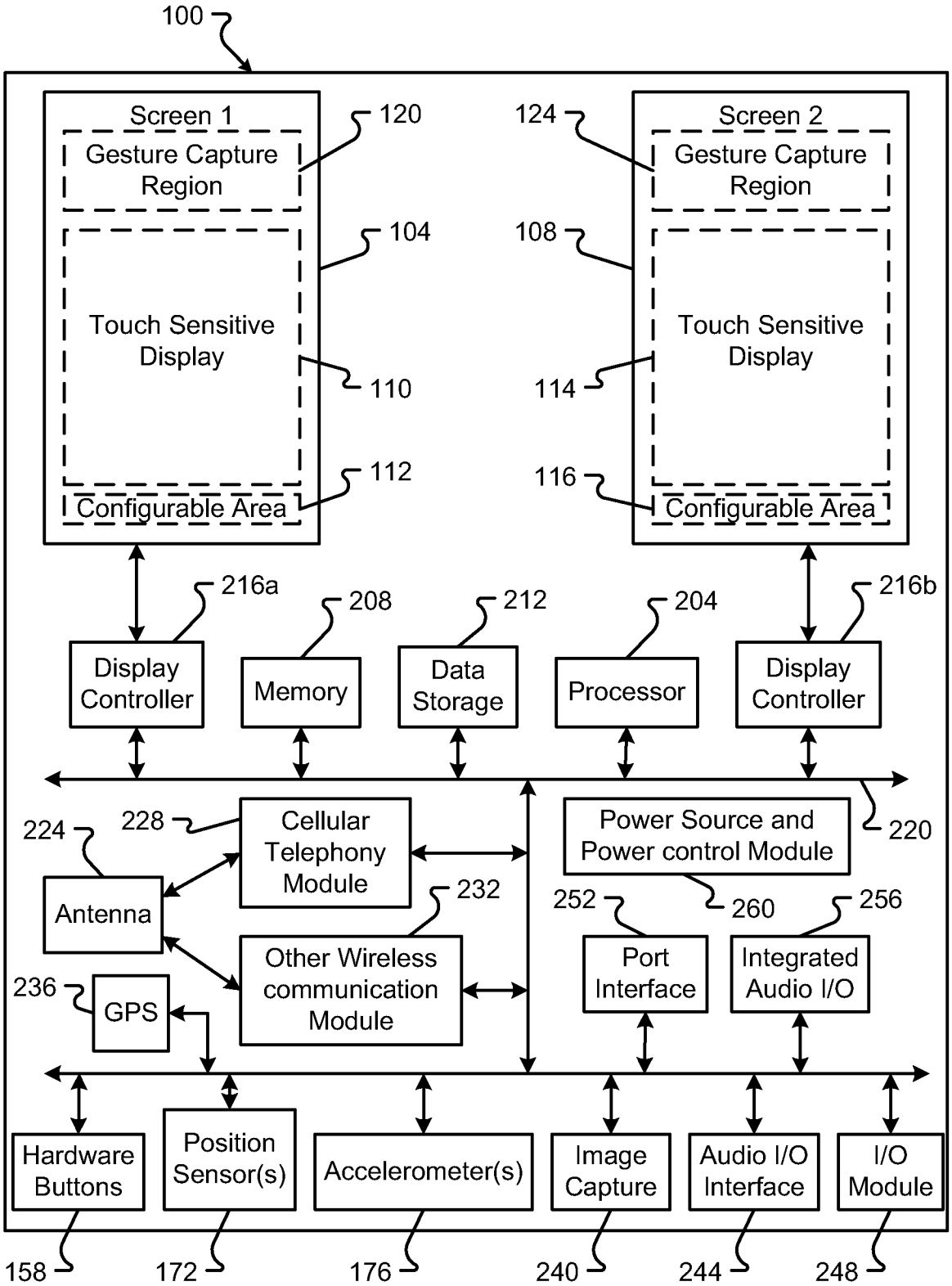

100
Screen 1
Gesture Capture Region
120
104
Touch Sensitive Display
110
112
Configurable Area
124
Screen 2
Gesture Capture Region
108
Touch Sensitive Display
114
116
Configurable Area
216a
208
212
204
216b
Display Controller
Memory
Data Storage
Processor
Display Controller
220
224
228
Cellular Telephony 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

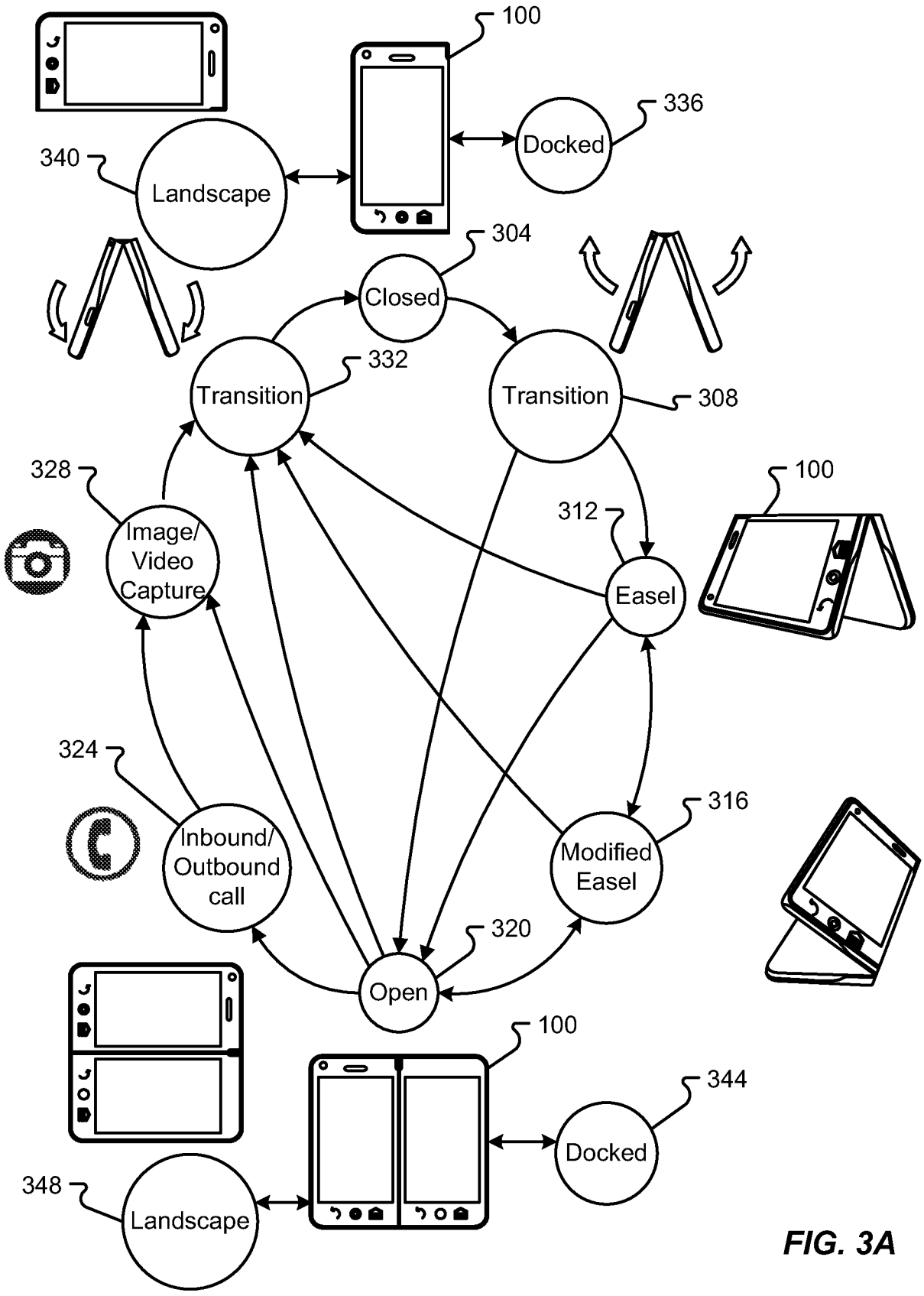
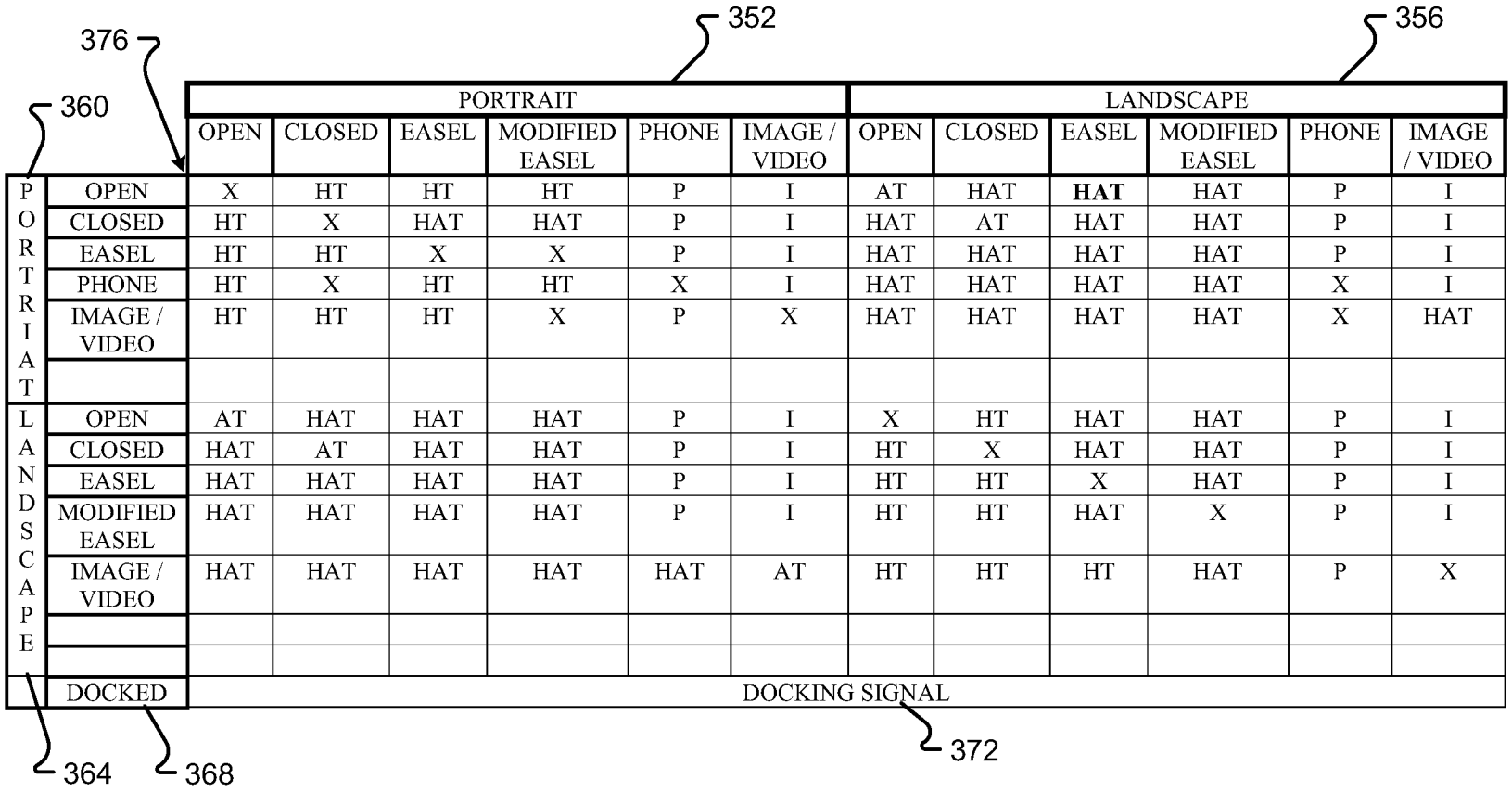

100
336
Docked
340
Landscape
304
Closed
332
Transition
Transition
308
328
Image/
Video
Capture
312
100
Easel
324
Inbound/
Outbound
call
316
Modified
Easel
320
Open
100
344
Docked
348
Landscape

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

Ex. 1002, p. 379
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Tap

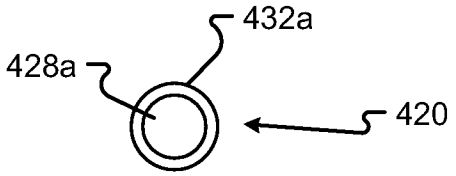


FIG. 4A

Long Press

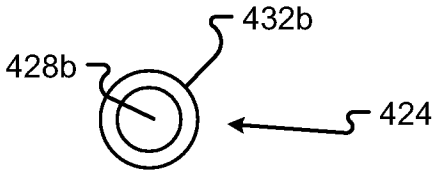


FIG. 4B

Drag

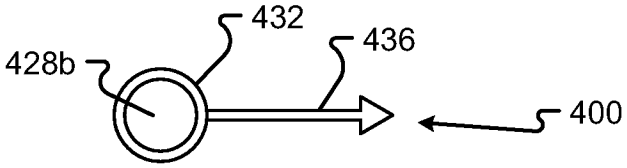


FIG. 4C

Flick

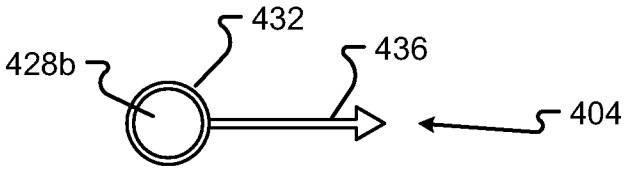


FIG. 4D

Pinch

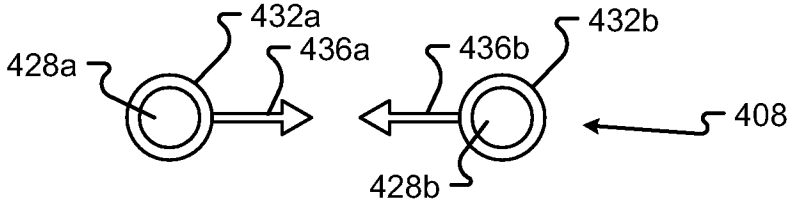


FIG. 4E

Spread

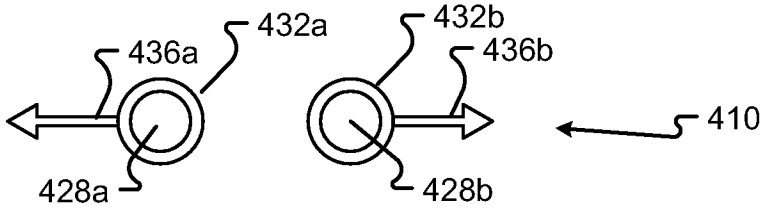


FIG. 4F

Ex. 1002, p. 380
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

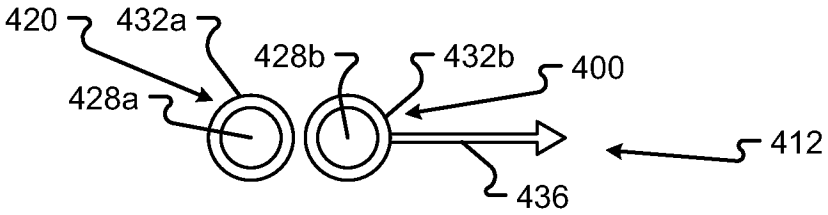

420
432a
428b
432b
400
428a
412
436

FIG. 4G

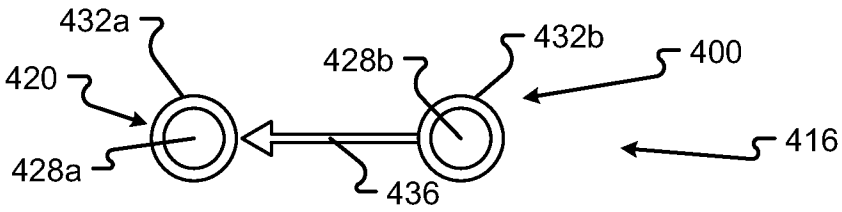

432a
420
428b
432b
400
428a
416
436

FIG. 4H

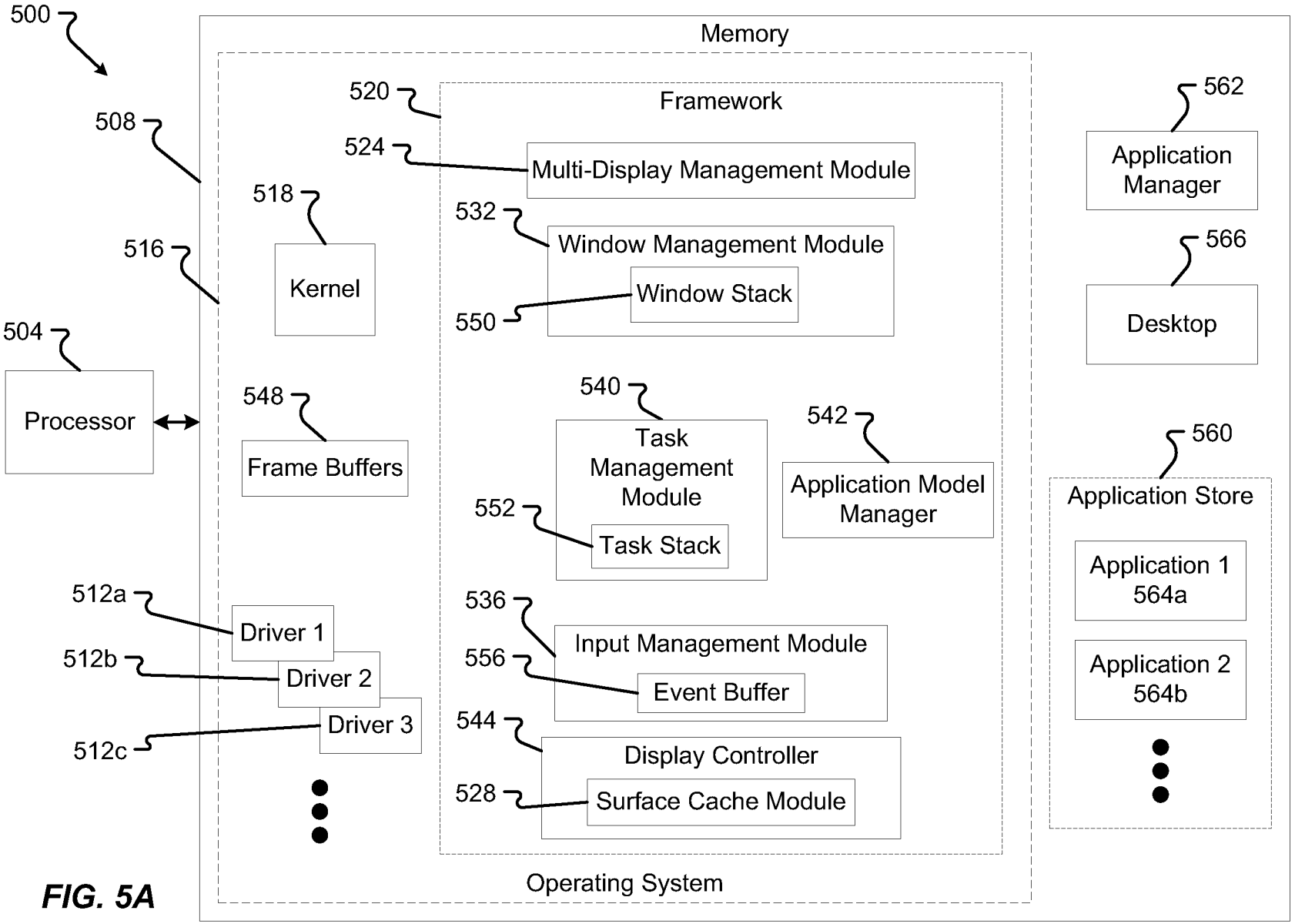


FIG. 5A

Ex. 1002, p. 382
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

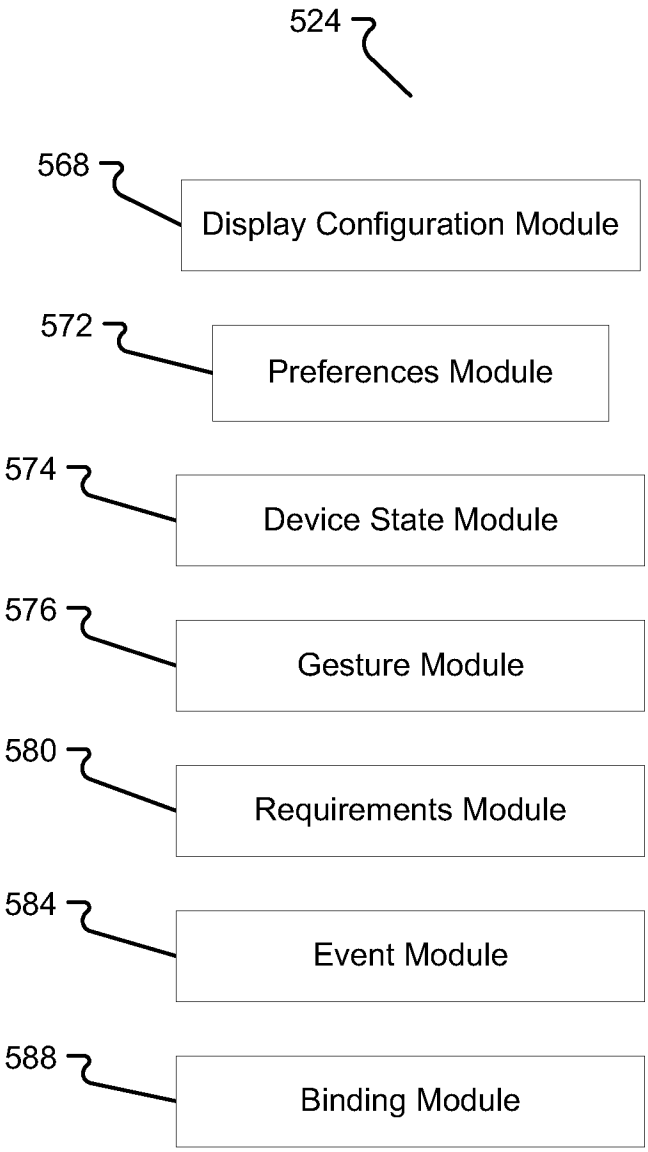

524
568
Display Configuration Module
572
Preferences Module
574
Device State Module
576
Gesture Module
580
Requirements Module
584
Event Module
588
Binding Module

FIG. 5B

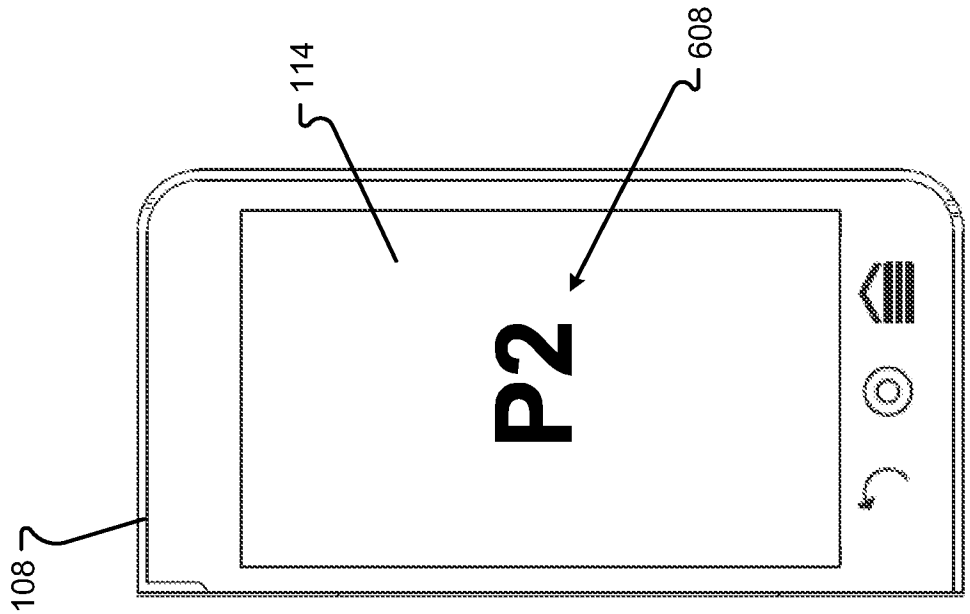


FIG. 6B

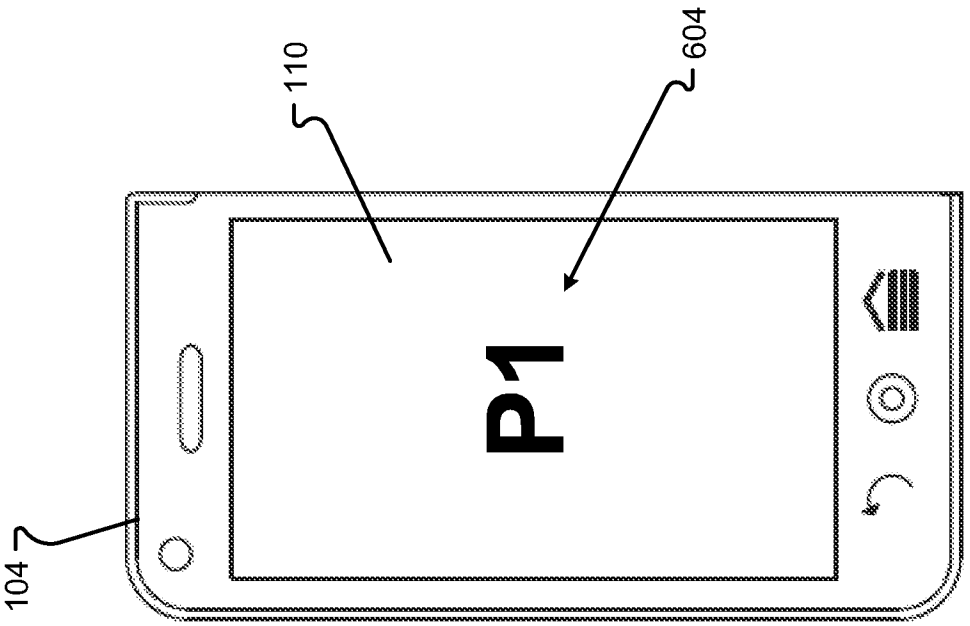


FIG. 6A

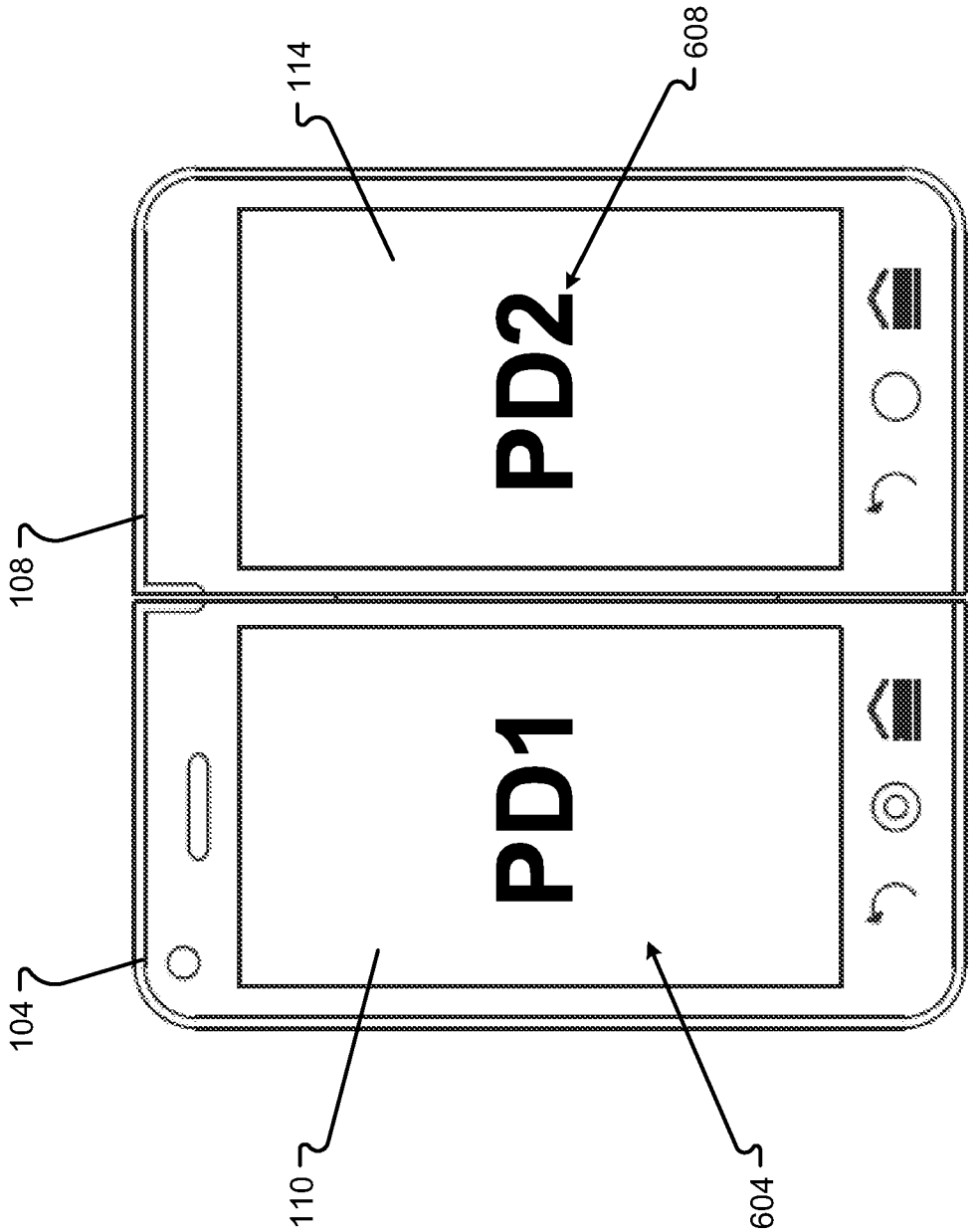


FIG. 6C

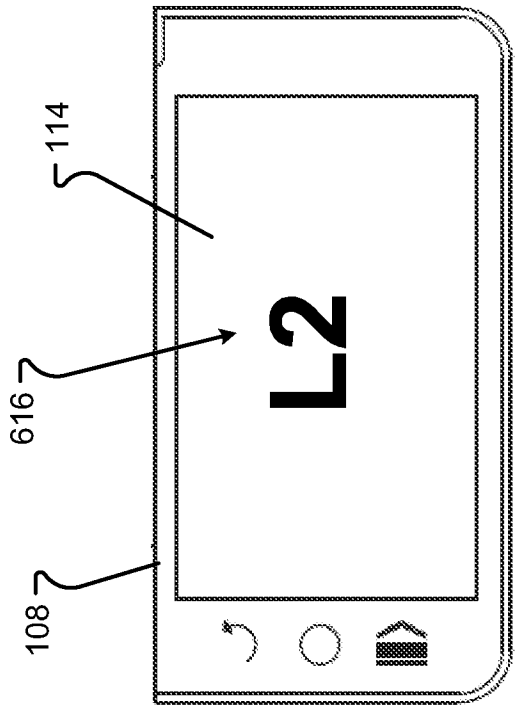


FIG. 6E

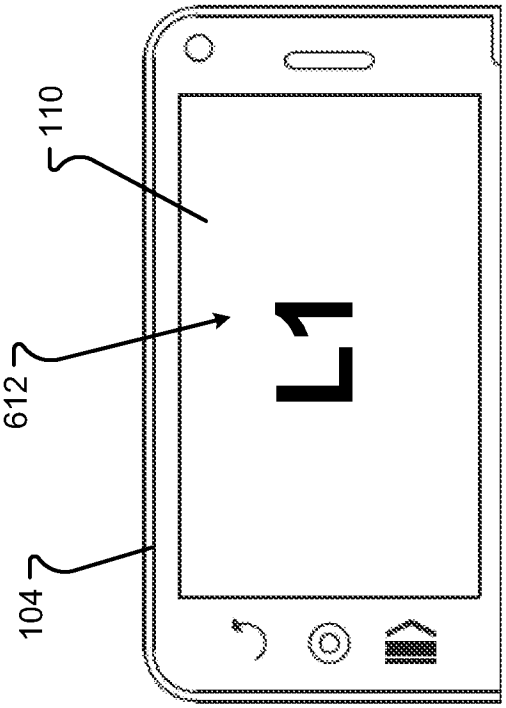


FIG. 6D

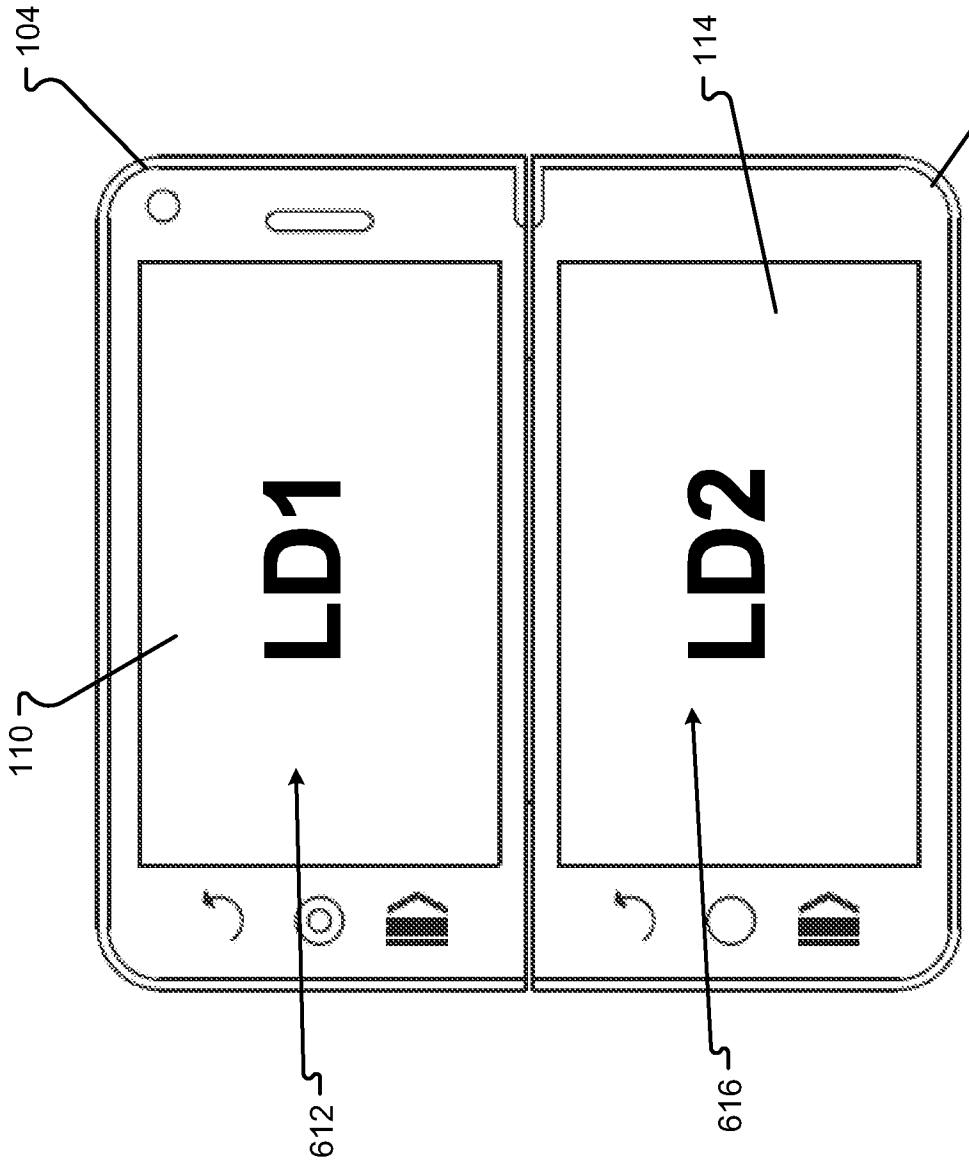


FIG. 6F

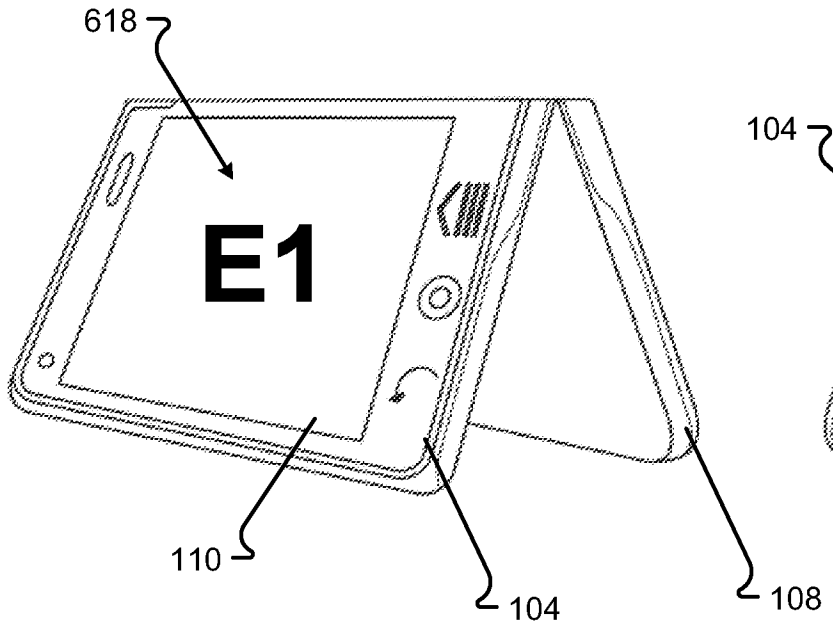


FIG. 6G

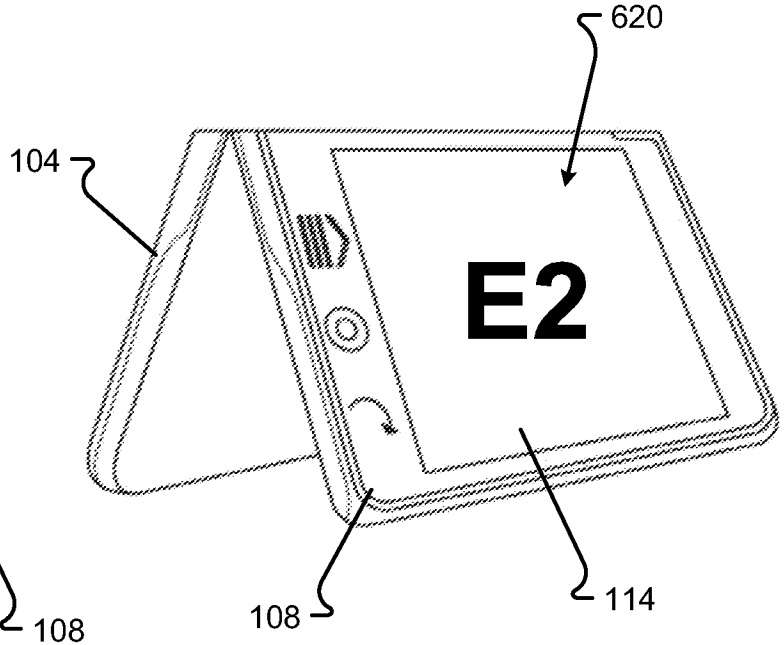


FIG. 6H

Ex. 1002, p. 388
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

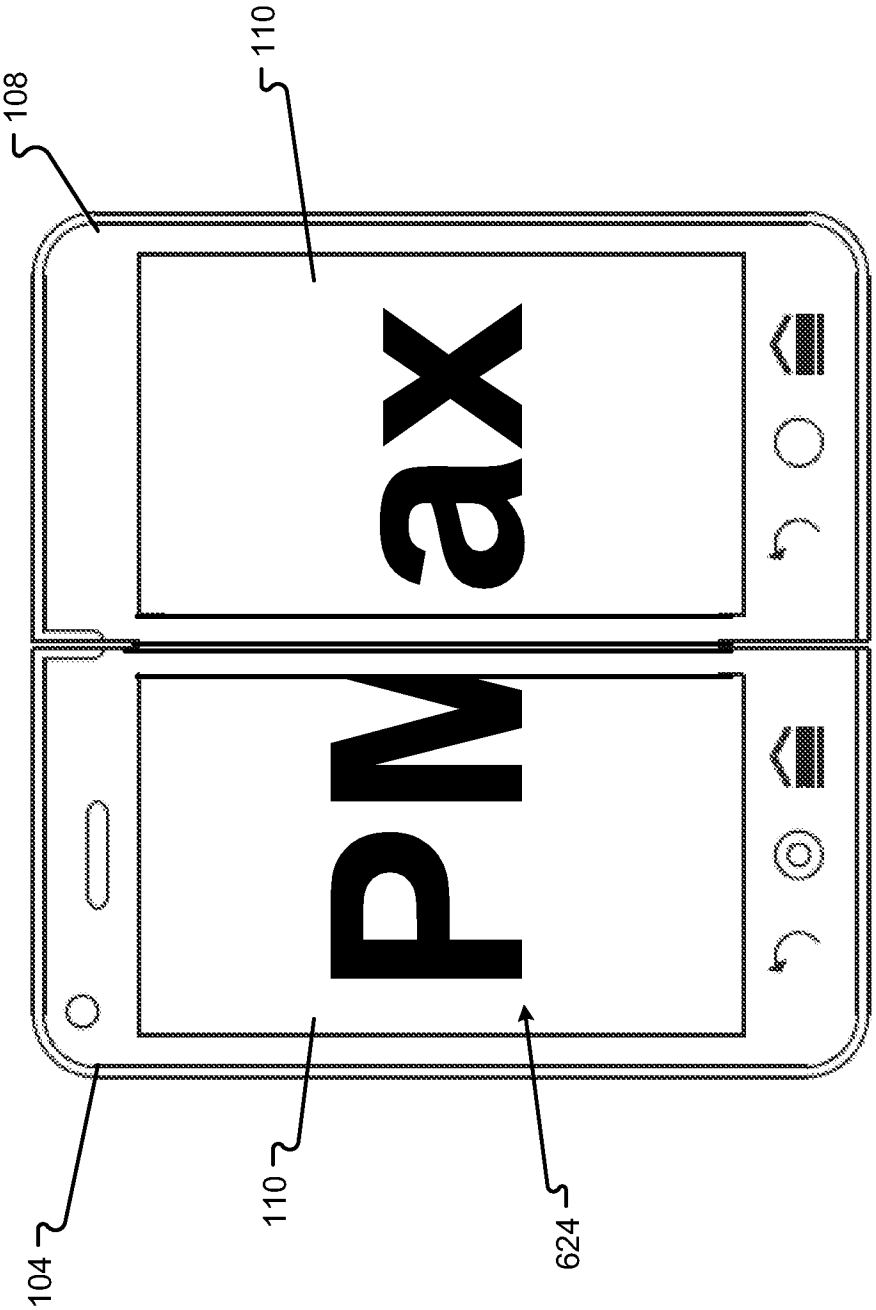


FIG. 6I

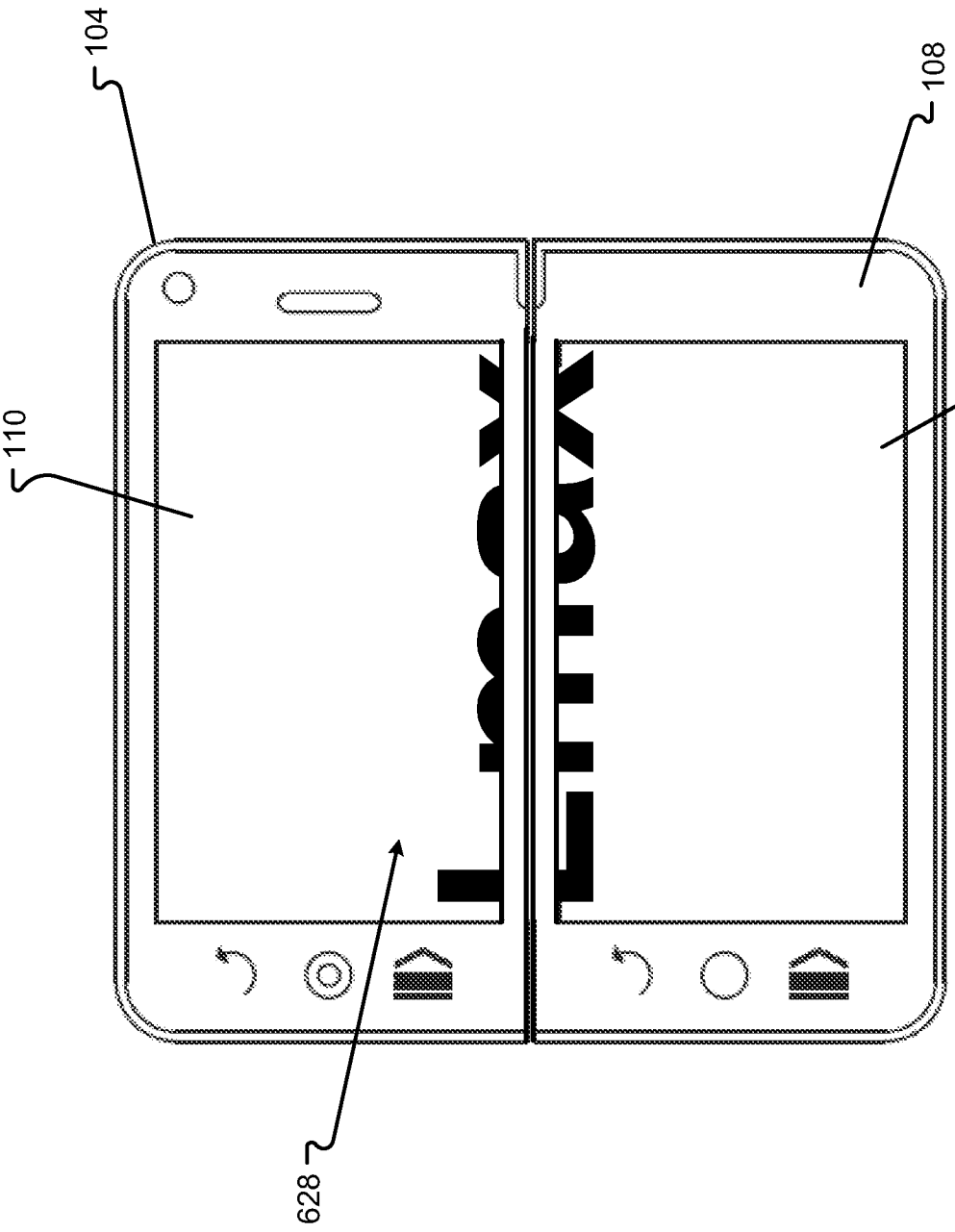


FIG. 6J

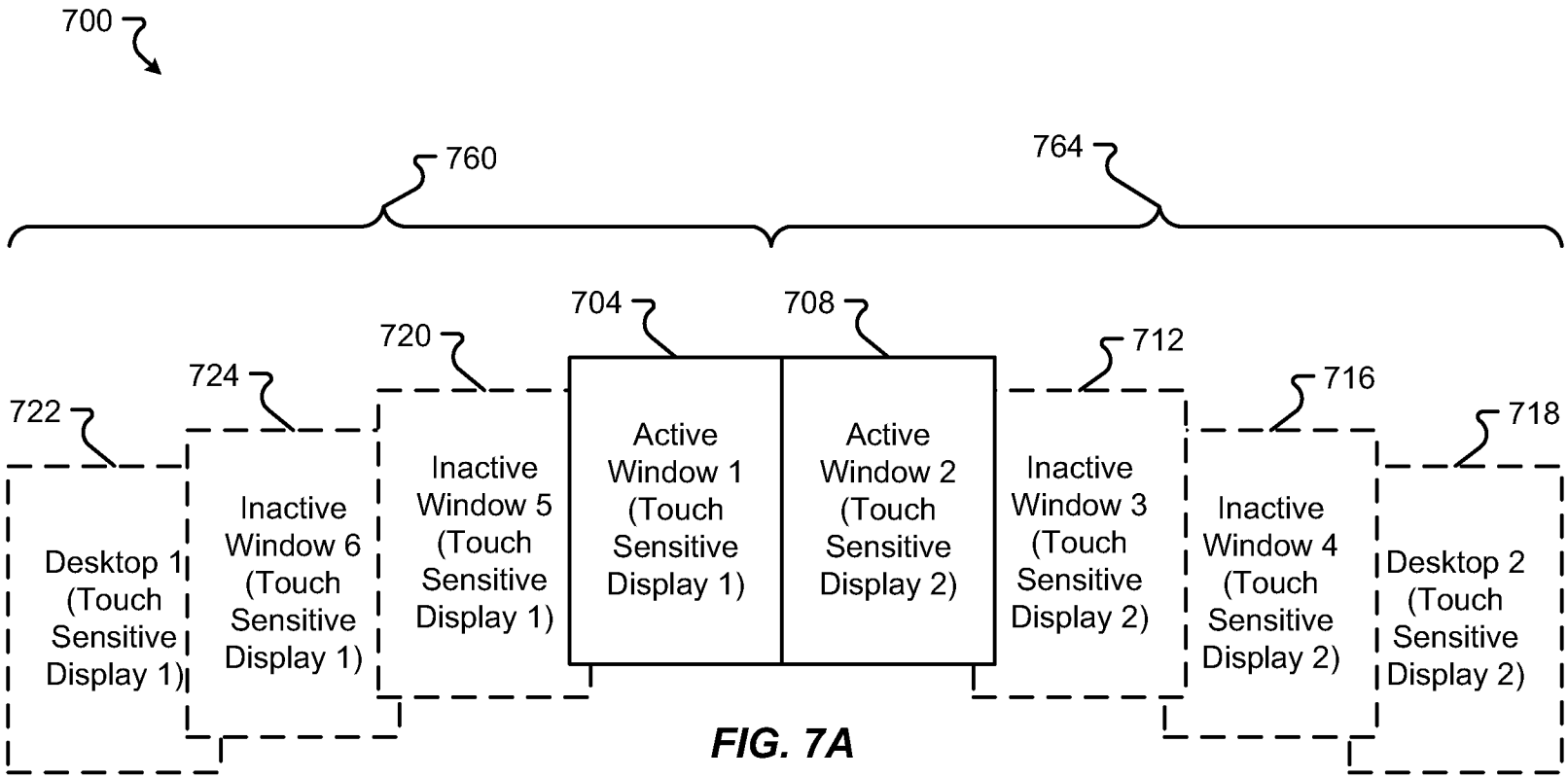


FIG. 7A

Ex. 1002, p. 391
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

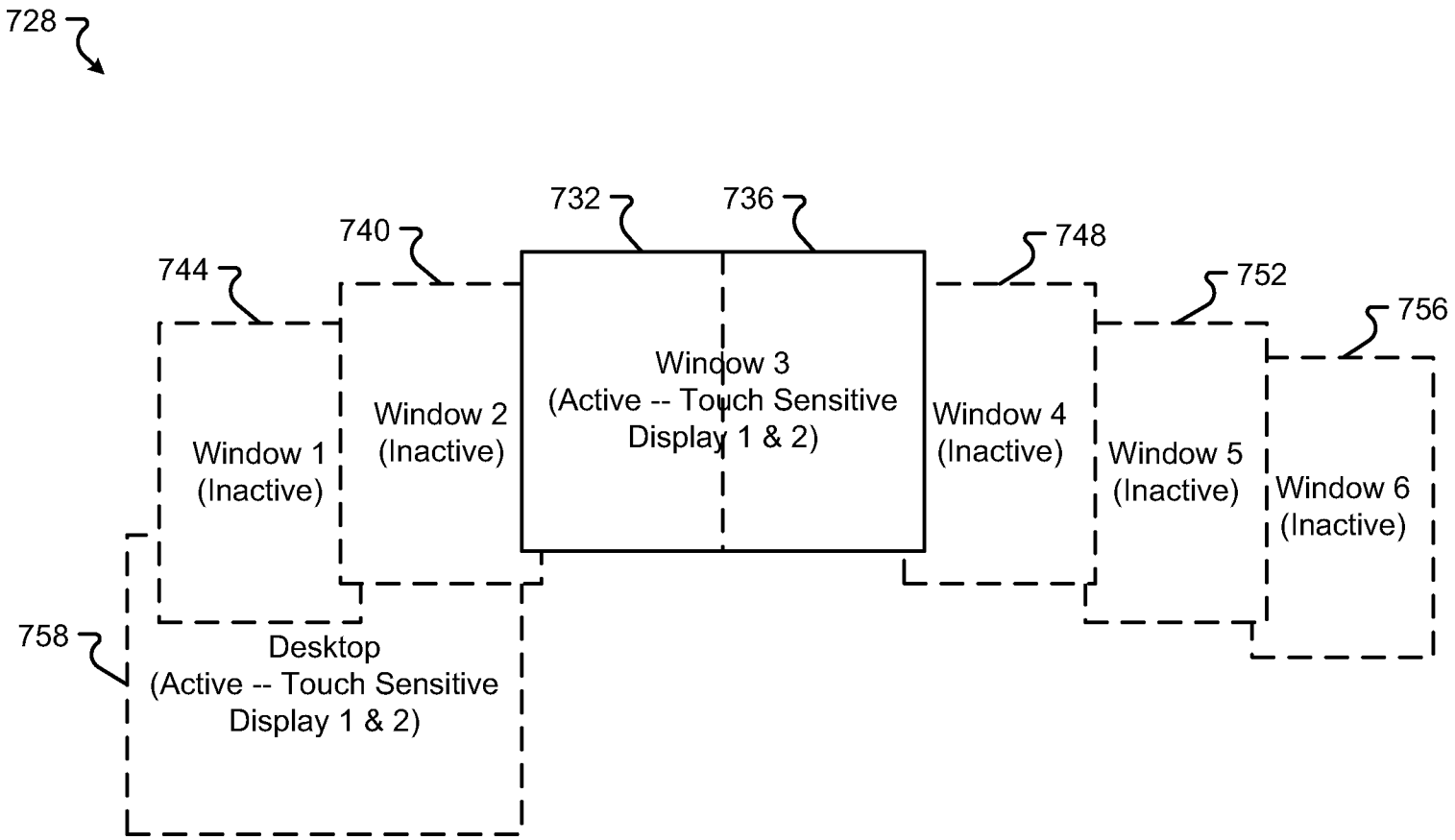


FIG. 7B

Ex. 1002, p. 392
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

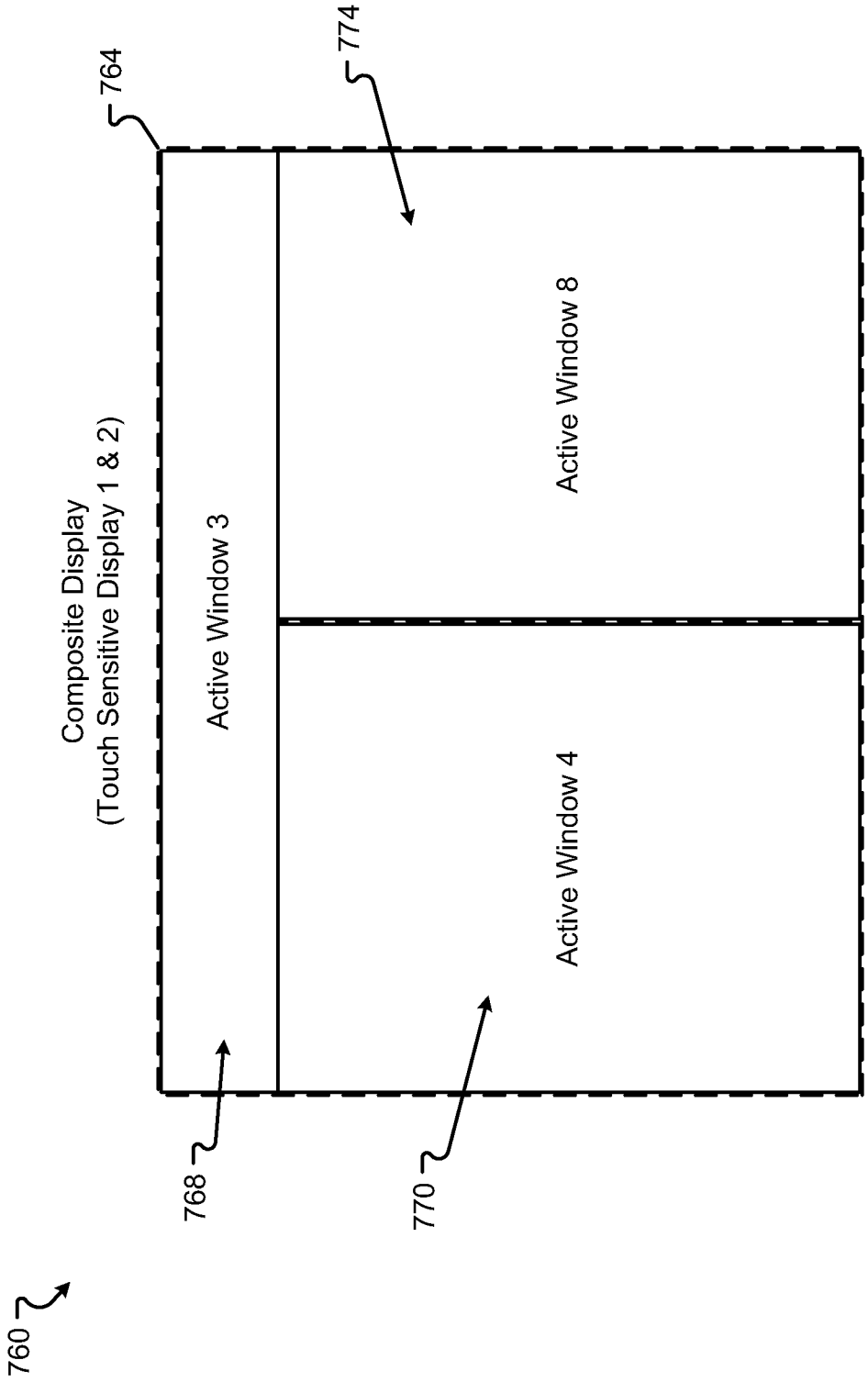

760
764
774
Composite Display
(Touch Sensitive Display 1 & 2)
Active Window 3
Active Window 8
Active Window 4
768
770

FIG. 7C

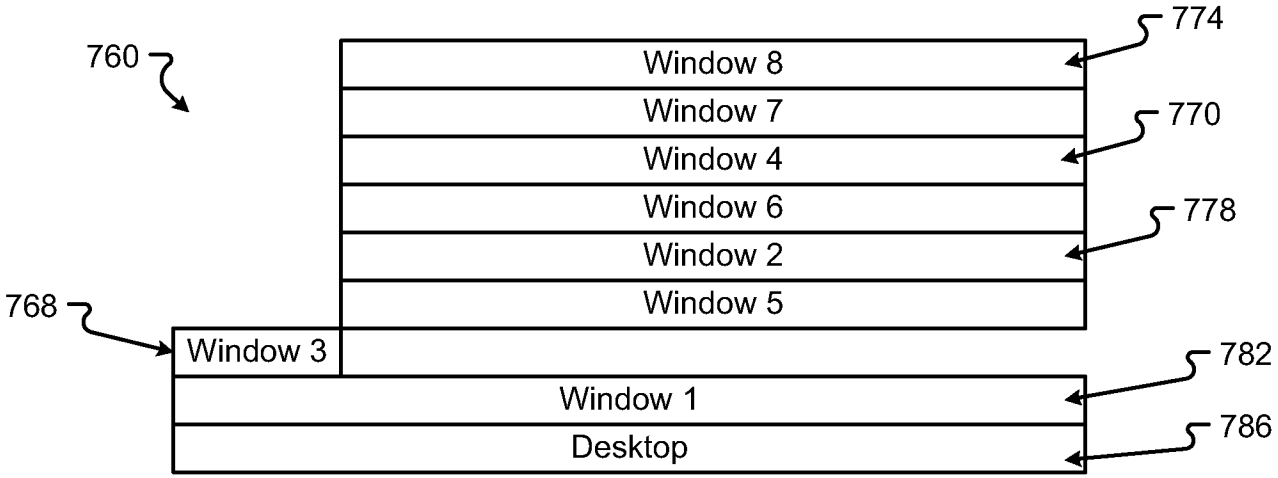


FIG. 7D

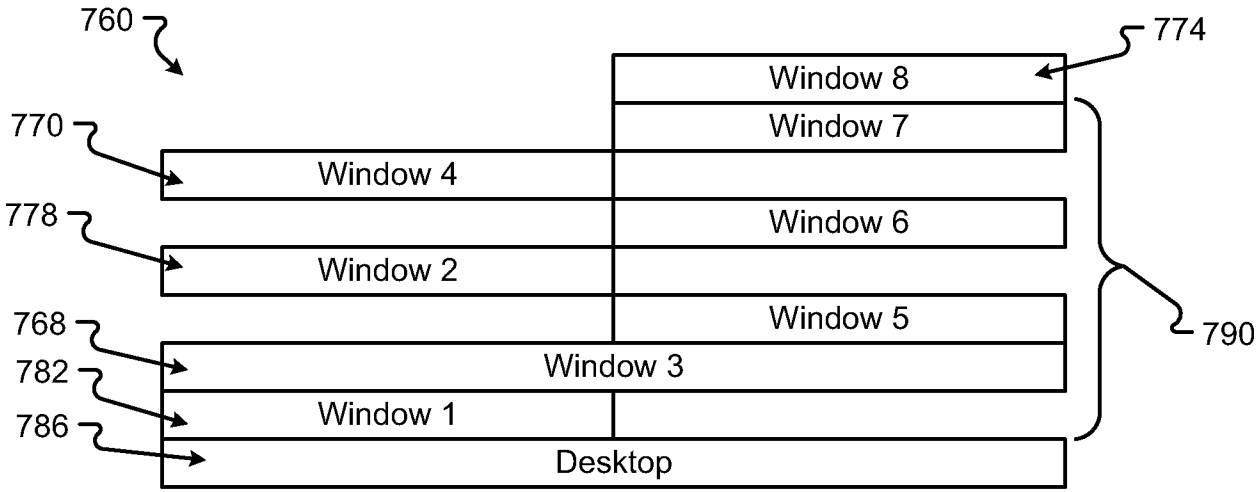


FIG. 7E

Ex. 1002, p. 394
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

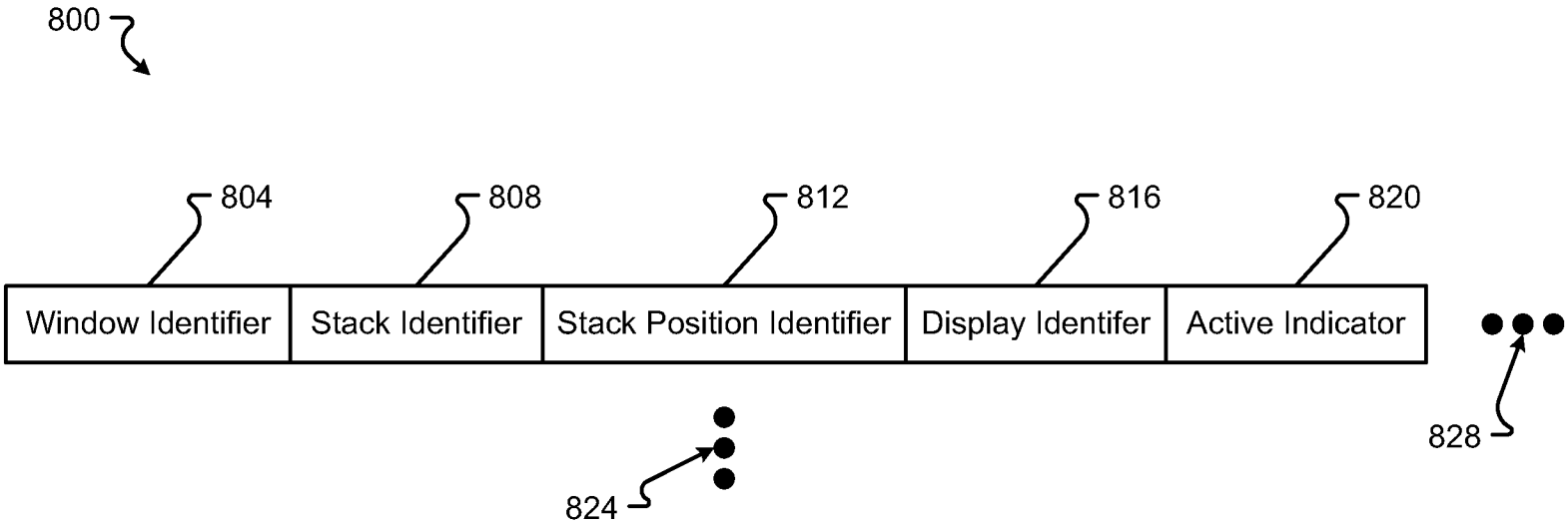


FIG. 8

Ex. 1002, p. 395
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

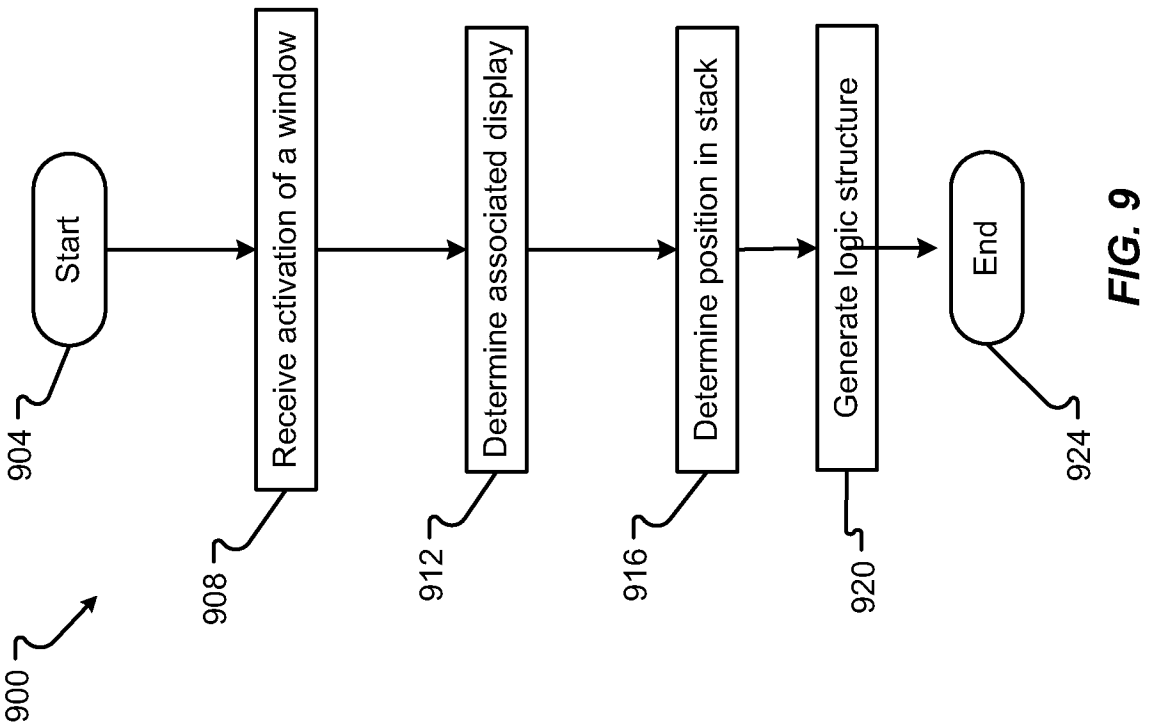

900
Start
904
Receive activation of a window
908
Determine associated display
912
Determine position in stack
916
Generate logic structure
920
End
924

FIG. 9

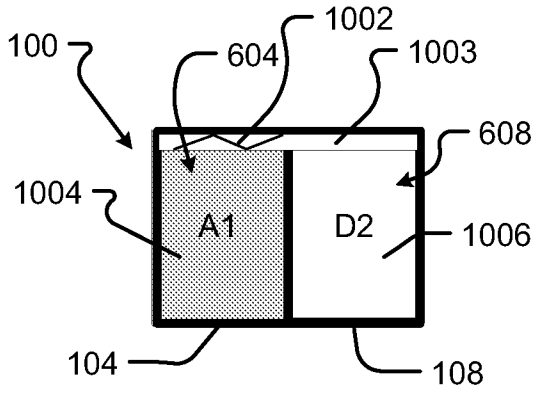


FIG. 10A

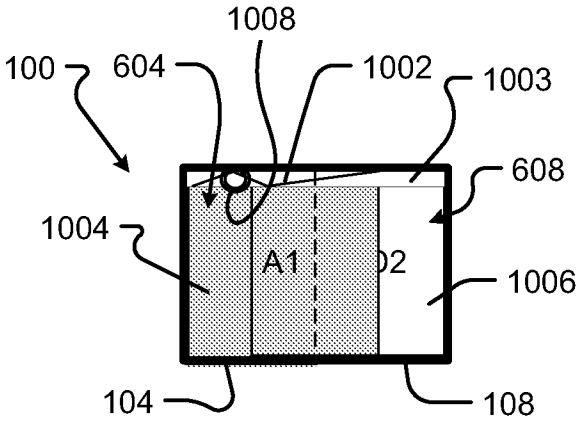


FIG. 10B

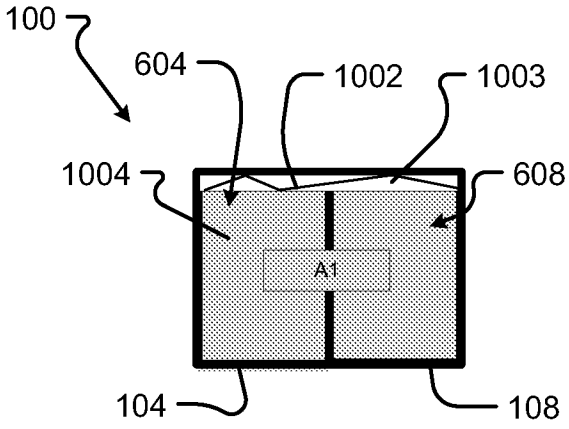


FIG. 10C

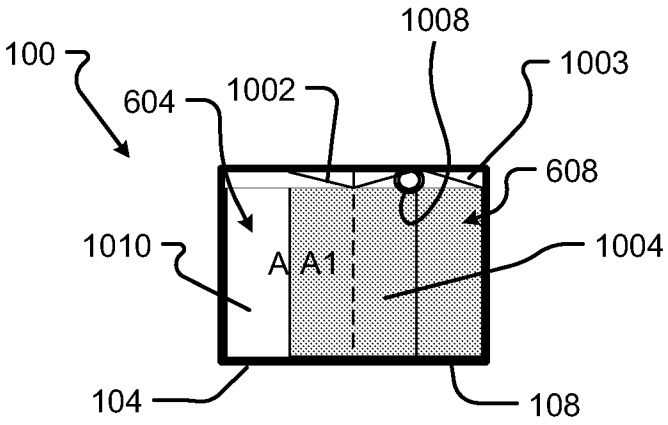


FIG. 10D

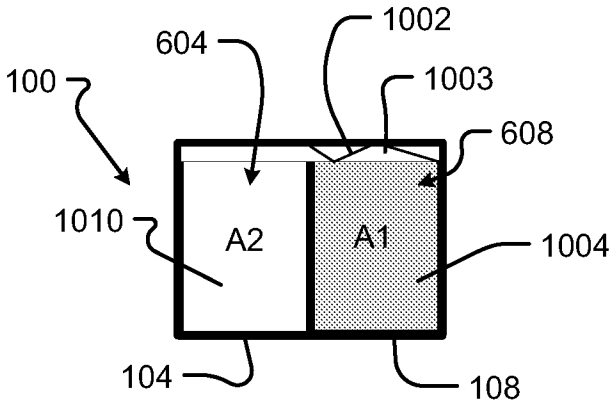


FIG. 10E

DUAL SCREEN APPLICATION VISUAL INDICATOR

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 Nos. 61/389,000, filed October 1, 2010, entitled "DUAL DISPLAY WINDOWING SYSTEM;" 61/389,117, filed October 1, 2010, entitled "MULTI-OPERATING SYSTEM PORTABLE DOCKETING DEVICE;" 61/389,087, filed October 1,2010, entitled "TABLET COMPUTING USER INTERFACE;"61/458,150, filed November 17, 2010, entitled "Dual Screen Email Client;" 61/539,884, filed September 27, 2011, entitled "MOBILE DEVICE." Each of the aforementioned documents is incorporated herein by this reference in their entirety for all that they teach 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 exemplary embodiments, it should be appreciated that individual aspects of the disclosure can be separately claimed.

[0006] In one aspect of the invention according to one or more embodiments, it can be described as a method of displaying a plurality of desktops and/or applications, each having at least one window, on a multi-screen device, comprising: (i) receiving a first input that represents an instruction to reveal one of a desktop or application on a first screen of the multi-screen device; (ii) selecting a first desktop or application to display on the first screen; (iii) receiving a second input that represents an instruction to reveal one of a desktop or application on a second screen of the multi-screen device; (iv) selecting a second desktop or application to display on the second screen; (v) displaying the selected first and second desktops or applications on the first and second screens; (vi) receiving a third input that represents an instruction to maximize or minimize a selected one of the first or second desktops or applications; and (vii) displaying the selected one of the first or second desktops or applications in a maximized or minimized condition

[0007] In another aspect of the invention according to one or more embodiments, it can be described as a non-transitory computer-readable medium having stored thereon instructions that cause a computing system to execute a method, the instructions comprising: (i) instructions configured to receive a first predetermined input that represents an instruction to determine and reveal a first desktop or application on a first screen of the multi-screen device; (ii) instructions configured to receive a second predetermined input that represents an instruction to determine and reveal a second desktop or application on a second screen of the multi-screen device; (iii) instructions configured to respond to the first and second predetermined inputs with outputs that cause the first desktop or application to be displayed on the first screen and cause the second desktop or application to be displayed on the second screen; (iv) instructions configured to receive a third predetermined input that represents an instruction to maximize or minimize a selected one of the first or second desktops or applications; and (v) instructions configured to

Ex. 1002, p. 400
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

respond to the third predetermined input that causes displaying of the selected one of the first or second desktops or applications in a maximized or minimized condition.

[0008] In yet another aspect of the invention according to one or more embodiments, it can be described as a multi-screen user device, comprising: (i) a first screen including a first display area; (ii) a second screen including a second display area; (iii) a first user input gesture area of the first screen; (iv) a second user input gesture area of the second screen, wherein the first and second user input gesture areas are configured to accept input from a user (v) a computer-readable medium having instructions stored thereon that include: (1) a first set of instructions configured to determine a number and identity of desktops or applications selected to be run by a user; (2) a second set of instructions configured to determine, based on the number and identity of the desktops or applications running, a window stack comprising a logical representation of the desktops and applications within an ordered group whereby a user can selectively move a selected desktop or application within the window stack and to be displayed in either the first or second screens; and (3) a third set of instructions responsive to a gesture made by the user to maximize or minimize a selected one of the first or second desktops or applications; and wherein the selected one of the first or second desktops or applications is displayed in a maximized or minimized condition.

[0009] The present disclosure can provide a number of advantages depending on the particular aspect, embodiment, and/or configuration. Currently, the consumer electronics industry is dominated by single-screen devices. Unfortunately, these devices are limited in the manner in which they can efficiently display information and receive user input. Specifically, multiple applications and desktops cannot be adequately shown on a single screen and require the user to constantly switch between displayed pages to access content from more than one application. Additionally, user input devices such as keyboards, touch-sensitive or capacitive displays, and hardware interface buttons are usually reduced in size to fit onto a single-screen device. Manipulating this type of device, and being forced to switch between multiple applications that only use one screen results in user fatigue, frustration, and in some cases repetitive motion injuries.

[0010] Recently, dual-screen devices have been made available to consumers of electronic devices. However, the currently available dual-screen devices have failed to adequately address the needs of the consumer. Although the devices include two screens in their design, they tend

Ex. 1002, p. 401
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

to incorporate the negative limitations of their single-screen counterparts. In particular, the typical dual-screen device limits the user interface to a particular screen, in some cases only providing a keyboard, or touch-sensitive/capacitive display, on one of the screens. Moreover, the management of the device's applications and desktops is limited to the traditional concepts of single-screen content switching. The present disclosure addresses the limitations of the traditional single/dual-screen devices and provides advantages in display, input, and content management.

[0011] At least one embodiment of the present disclosure describes a multi-screen device and methods for managing the display of content that allows the user a greater degree of creative latitude when operating the device. In particular, when a device is running an application or group of applications, the device is capable of detecting a user gesture input that can reveal a desktop on multiple screens of the device. This desktop can show a representation of different applications that the user can select. From this desktop, a user is able to launch applications or navigate between multiple desktop pages, including those that are displayed and those that are not. A user, or the device itself, may choose how and when to initiate the reveal desktop expansion, which may be determined by, but not limited to, a specific input detected, an output from another process, program or hardware logic, software control, or combination thereof. The management of the displayed desktops may be directed by the device or the user. These and other advantages will be apparent from the disclosure.

[0012] The present disclosure can provide a number of advantages depending on the particular aspect, embodiment, and/or configuration. These and other advantages will be apparent from the disclosure.

[0013] 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.

[0014] 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.

Ex. 1002, p. 402
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

[0015] 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".

[0016] 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 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.

[0017] 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.

[0018] 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

Ex. 1002, p. 403
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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 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.

[0019] 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.

[0020] 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.

[0021] 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

Ex. 1002, p. 404
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0022] The term "composited 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 display that encompasses all the screens. The composite display can have different display characteristics based on the various orientations of the device.

[0023] 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.

[0024] 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.

[0025] 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.

[0026] A "multi-screen 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

Ex. 1002, p. 405
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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 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.

[0027] 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 is incapable of the several modes discussed with the multi-screen application.

[0028] 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.

[0029] 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.

[0030] 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.

[0031] 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

Ex. 1002, p. 406
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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

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

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

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

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

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

[0037] FIG. 1F includes a sixth view of an embodiment of a multi-screen user device;

[0038] FIG. 1G includes a seventh view of an embodiment of a multi-screen user device;

[0039] FIG. 1H includes a eighth view of an embodiment of a multi-screen user device;

[0040] FIG. 1I includes a ninth view of an embodiment of a multi-screen user device;

[0041] FIG. 1J includes a tenth view of an embodiment of a multi-screen user device;

[0042] FIG. 2 is a block diagram of an embodiment of the hardware of the device;

[0043] 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;

[0044] FIG. 3B is a table of an embodiment of the state model for the device based on the device's orientation and/or configuration;

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

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

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

[0048] FIG. 4D is a fourth representation of an embodiment of user gesture received at a device;

[0049] FIG. 4E is a fifth representation of an embodiment of user gesture received at a device;

[0050] FIG. 4F is a sixth representation of an embodiment of user gesture received at a device;

[0051] FIG. 4G is a seventh representation of an embodiment of user gesture received at a device;

Ex. 1002, p. 407
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

[0052] FIG. 4H is a eighth representation of an embodiment of user gesture received at a device;

[0053] FIG. 5A is a block diagram of an embodiment of the device software and/or firmware;

[0054] FIG. 5B is a second block diagram of an embodiment of the device software and/or firmware;

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

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

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

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

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

[0060] FIG. 6F is a sixth representation of an embodiment of a device configuration generated in response to the device state;

[0061] FIG. 6G is a seventh representation of an embodiment of a device configuration generated in response to the device state;

[0062] FIG. 6H is a eighth representation of an embodiment of a device configuration generated in response to the device state;

[0063] FIG. 6I is a ninth representation of an embodiment of a device configuration generated in response to the device state;

[0064] FIG. 6J is a tenth representation of an embodiment of a device configuration generated in response to the device state;

[0065] FIG. 7A is representation of a logical window stack;

[0066] FIG. 7B is another representation of an embodiment of a logical window stack;

[0067] FIG. 7C is another representation of an embodiment of a logical window stack;

[0068] FIG. 7D is another representation of an embodiment of a logical window stack;

[0069] FIG. 7E is another representation of an embodiment of a logical window stack;

Ex. 1002, p. 408
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

[0070] FIG. 8 is block diagram of an embodiment of a logical data structure for a window stack;

[0071] FIG. 9 is a flow chart of an embodiment of a method for creating a window stack;

[0072] FIG. 10A depicts a first display state of an open device with a visual indicator on the primary screen indicating the application displayed on the primary screen can be maximized to also be shown in a larger view across both the primary and secondary screens,

[0073] FIG. 10B depicts a second display state of the open device of FIG. 10A showing a user gesture executed to maximize the application, and a graphical representation of the selected application expanding to occupy both the primary and secondary screens in response to the user gesture;

[0074] FIG. 10C depicts a third display state of the open device of FIG. 10A showing the selected application maximized and therefore displayed on both the primary and secondary screens;

[0075] FIG. 10D depicts a fourth display state of the open device of FIG. 10A showing the selected application maximized as in FIG. 10C, but also another user gesture executed to minimize the application on the secondary screen; and

[0076] FIG. 10E depicts a fifth display state of the open device of FIG. 10A showing the selected application minimized on the secondary screen thereby covering the previous application appearing on the secondary screen , and also revealing the next application or desktop in a window stack on the primary screen.

[0077] 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.

DETAILED DESCRIPTION

[0078] 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 that are oriented to provide several unique display configurations. Further, the device can

Ex. 1002, p. 409
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0079] Mechanical Features:

[0080] 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.

[0081] 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.

[0082] 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

Ex. 1002, p. 410
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0083] 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.

[0084] 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.

[0085] 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 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

Ex. 1002, p. 411
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0086] 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.

[0087] 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 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.

Ex. 1002, p. 412
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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).

[0088] 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.

[0089] 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.

[0090] 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 generate events that trigger changes in the display of information of screens 104 and 108. For

Ex. 1002, p. 413
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

example, information may not be displayed on the screen that is face down since a user cannot see the screen.

[0091] 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.

[0092] 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.

[0093] Hardware Features:

[0094] 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 each touch sensitive screen 104 and 108, may comprise a touch sensitive display 110, 114. In

Ex. 1002, p. 414
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0095] 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.

[0096] 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.

[0097] 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 include multiple physical processors. As a particular example, the processor 204 may comprise a

Ex. 1002, p. 415
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0098] 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.

[0099] 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.

[00100] 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.

Ex. 1002, p. 416
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

[00101] 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.

[00102] 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.

[00103] 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.

[00104] 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.

[00105] 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

Ex. 1002, p. 417
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[00106] 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.

[00107] Device State:

[00108] 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.

[00109] 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.

[00110] 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.

Ex. 1002, p. 418
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

[00111] In the closed state, the device can also move to a transitional state where the device remains closed but 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.

[00112] 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.

[0100] 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.

[0101] 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.

[0102] 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.

Ex. 1002, p. 419
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

[0103] 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.

[0104] 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.

[0105] 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.

[0106] 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.

[0107] 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.

[0108] User Interaction:

[0109] 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.

Ex. 1002, p. 420
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

[0110] 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.

[0111] 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.

[0112] 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.

[0113] 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 428 to the screen 104,108 by, for example, a

Ex. 1002, p. 421
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0114] 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.

[0115] 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.

Ex. 1002, p. 422
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

4H, a tap gesture 420 is combined with a drag or flick gesture 412 in a direction towards the tap gesture 420.

[0116] 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.

[0117] 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.

[0118] 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

Ex. 1002, p. 423
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

(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).

[0119] 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.

[0120] Firmware and Software:

[0121] 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

Ex. 1002, p. 424
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

(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.

[0122] 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.

[0123] 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.

[0124] 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.

[0125] 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

Ex. 1002, p. 425
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0126] 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.

[0127] 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

Ex. 1002, p. 426
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

also map screen inputs to a motion space which is the culmination of all physical and virtual display available on the device.

[0128] 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.

[0129] 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.

[0130] 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.

Ex. 1002, p. 427
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0131] 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.

[0132] 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.

[0133] 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

Ex. 1002, p. 428
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0134] 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.

[0135] 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.

[0136] 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

Ex. 1002, p. 429
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0137] 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.

[0138] 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.

[0139] 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.

[0140] 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

Ex. 1002, p. 430
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0141] 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.

[0142] 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.

[0143] 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

Ex. 1002, p. 431
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0144] 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.

[0145] User Interface Configurations:

[0146] With reference now to Figs. 6A-J, various types of output configurations made possible by the device 100 will be described hereinafter.

[0147] 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.

[0148] 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.

Ex. 1002, p. 432
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

[0149] 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.

[0150] 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.

[0151] 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

Ex. 1002, p. 433
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0152] 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.

[0153] 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.

[0154] 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

Ex. 1002, p. 434
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0155] 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.

[0156] 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.

[0157] 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

Ex. 1002, p. 435
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0158] 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.

[0159] 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

Ex. 1002, p. 436
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0160] 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.

[0161] 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.

[0162] 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

Ex. 1002, p. 437
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0163] 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.

[0164] 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.

[0165] 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

Ex. 1002, p. 438
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0166] 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.

[0167] 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.

[0168] 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

Ex. 1002, p. 439
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0169] 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.

[0170] 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.

[0171] 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.

[0172] 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.

Ex. 1002, p. 440
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0173] 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.

[0174] 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.

Ex. 1002, p. 441
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

[0175] Figs. 10A-E depict graphical representations of embodiments of a device 100 in an open portrait state where the primary screen or display 104 in a first portrait configuration 604 is shown surrounded by a solid line, while the secondary screen or display 108 is in a second portrait configuration 608 and is also visible as indicated by a solid line.

[0176] Referring to Fig. 10A, the primary screen 104 shows a first page 1004 running a first single page application A1, and the secondary display 108 shows another page 1006 running a second desk top D2. Fig. 10A also illustrates a visual indicator 1002 indicating to the user that the application or a desk top running on the screen in which the visual indicator is displayed allows the user to minimize or maximize that application/desktop. Accordingly, in Fig. 10A, the indicator 1002 signifies that a user can maximize the application A1 in its current minimized state. The indicator 1002 is shown as having a wave shape that extends across the upper portion of the screen 104; however, it shall be understood that other graphical representations can be provided for the indicator 1002 such as an icon or another type of visual indicator located on other parts of the screen. The visual indicator 1002 can be presented within an annunciator window 1003, or can be presented without a separate window and directly on the running application/desktop, preferably in the manner shown at the top of the screens so as to not interfere substantially with the applications/desktops. The annunciator window 1003 can also display other features of the device to include notifications (such as incoming calls, emails, or text messages)(not shown). The annunciator window 1003 could also display status information such as whether the device has a 3G or 4G connection, the date, time, battery charge level, wireless signal strength, and other status information (not shown).

[0177] Referring to Fig. 10B, this figure illustrates a user executing a gesture 1008, such as a tap or long hold gesture on the visual indicator 1002. In response to the gesture 1008, the application A1 is maximized for viewing on both the first and second screens. Fig. 10B illustrates the application A1 in a moving state as it expands onto the secondary screen 108. Although Fig. 10B may illustrate a gradual or incremental maximizing of the application A1, it shall be understood that Fig. 10B may also represent that once the use executes the gesture 1008, the selected application/desk top will be instantaneously shown on both of the screens.

[0178] Referring to Fig. 10C, this Figure shows the application A1 as it now fully occupies both the primary and secondary screens. The visual indicator 1002 therefore also expands across

Ex. 1002, p. 442
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

both the primary and secondary screens, indicating that the user can now minimize this application by again executing another gesture.

[0179] Referring to Fig. 10D, this figure illustrates the user executing another gesture 1008 on the secondary screen 108, which therefore minimizes the application A1 onto the secondary screen 108. Again, Fig. 10D illustrates a gradual or incremental movement of the application A1, however, it shall again be understood that Fig. 10D is only a graphical representation of the minimization, and thus the minimization could occur nearly simultaneously as viewed by the user.

[0180] Referring to Fig. 10E, in yet another embodiment of the invention, the application A1 is shown as minimized on the secondary screen 108, while the primary screen 104 now shows a new page 1010 running an application A2. In this example, the minimization of the application A1 results in rearranging the window stacks for the primary and secondary screens. Therefore, by the user executing the gesture 1008 on the secondary screen to minimize application A1, a next application/desktop in the window stack for the primary screen 104 is displayed, namely the application A2. The application A1 is now also moved to the top application in a window stack of the secondary screen, assuming the secondary screen has its own window stack. Alternatively, if there is but a single window stack for both screens, then the page 1004 running the application A1 appearing on the secondary screen 108 can also represent rearrangement of the single window stack in which page 1004 is now the first or top application to occupy the secondary screen and the page 1010 running the application A2 is now the first or top application occupying the primary screen. The page 1006 running the application D2 is placed one level below the application A1 in the window stack, or could be placed at any other location in the window stack depending upon the particular window stack protocol being employed at the time. Yet further in the alternative, the minimization of the application A1 onto the secondary screen could result in no rearrangement of any window stack, and the primary screen 104 could be blank with no displayed application/desktop, or the primary screen could display a predetermine default application/desktop.

[0181] If the user desired to maximize application A1 again, the user could simply execute yet another gesture 1008 on the secondary screen 108, which would cause the application A1 to be displayed on both the primary and secondary screens such as shown in Fig. 10C.

Ex. 1002, p. 443
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

[0182] Although Figs. 10A-10E are presented in the open portrait state, it shall be understood that the features disclosed in these figures can also be incorporated in other modes of operation of the device 100 to include a landscape state or any of the other "physical" states disclosed herein.

[0183] Based on the description of the Figures, it is evident that the display of windows in a window stack can be selectively changed by simple gesture interactions thereby making multiple desktops and running applications available to the user with minimum effort. Each screen has a logical representation of the windows that have been opened and displayed on the screens. The logical representation is the stack that is made up of one or more windows arranged in an order that can be selected and changed by the user. The windows can be indexed or shifted to display desire windows, as well as to move windows between separate stacks. The ordered arrangement of a stack maintains the logical construction of the stack intact when the user navigates the window stack, for example in an off-screen area. As shown specifically in the Figures 10A-10E, a user may easily manipulate the display of selected running applications or desktops by minimizing and maximizing them. The user may also reveal at least the next desktop or application in a stack if the user moves an application/desktop to another screen.

[0184] The exemplary systems and methods of this disclosure have been described in relation to various preferred embodiments. However, to avoid unnecessarily obscuring the present disclosure, the preceding description omits a number of known structures and devices. This omission is not to be construed as a limitation of the scopes of the claims. Specific details are set forth to provide an understanding of the present disclosure. It should however be appreciated that the present disclosure may be practiced in a variety of ways beyond the specific detail set forth herein.

[0185] 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, 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

Ex. 1002, p. 444
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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 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.

[0186] 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.

[0187] 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.

[0188] A number of variations and modifications of the disclosure can be used. It would be possible to provide for some features of the disclosure without providing others.

[0189] 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,

Ex. 1002, p. 445
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

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.

[0190] 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.

[0191] 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.

[0192] 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.

Ex. 1002, p. 446
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

[0193] 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 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.

[0194] 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.

[0195] 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.

Ex. 1002, p. 447
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

What is claimed is:

1. A method of displaying a plurality of desktops and/or applications, each having at least one window, on a multi-screen device, comprising:

receiving, by a processor, a first input that represents an instruction to reveal one of a desktop or application on a first display of the multi-screen device;

selecting, by a processor, a first desktop or application to display on the first display;

receiving, by a processor, a second input that represents an instruction to reveal one of a desktop or application on a second display of the multi-screen device;

selecting, by a processor, a second desktop or application to display on the second display;

displaying, by a processor, the selected first and second desktops or applications on the first and second displays;

receiving, by a processor, a third input that represents an instruction to maximize or minimize a selected one of the first or second desktops or applications;

displaying, by a processor, the selected one of the first or second desktops or applications in a maximized or minimized condition

2. The method of claim 1, wherein at least one of the first, second, and third inputs is achieved by at least a user input gesture.

3. The method of claim 1, wherein the third input is a user gesture comprising at least one of a tap or long hold gesture.

4. The method of claim 1, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that display can be maximized or minimized by a user gesture.

5. The method of claim 1, wherein the visual indicator has a wave shape.

6. The method of claim 1, wherein the third input is an instruction to maximize a selected one of the first or second desktops or applications, resulting in the selected one being displayed on both of the first and second displays.

Ex. 1002, p. 448
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

7. The method of claim 1, wherein the third input is an instruction to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only on either the first and second displays.

8. A non-transitory computer-readable medium having stored thereon instructions that cause a computing system to execute a method, the instructions comprising:

instructions configured to receive a first predetermined input that represents an instruction to determine and reveal a first desktop or application on a first display of the multi-screen device;

instructions configured to receive a second predetermined input that represents an instruction to determine and reveal a second desktop or application on a second display of the multi-screen device;

instructions configured to respond to the first and second predetermined inputs with outputs that cause the first desktop or application to be displayed on the first display and cause the second desktop or application to be displayed on the second display;

instructions configured to receive a third predetermined input that represents an instruction to maximize or minimize a selected one of the first or second desktops or applications; and

instructions configured to respond to the third predetermined input that causes displaying of the selected one of the first or second desktops or applications in a maximized or minimized condition.

9. The computer-readable medium of claim 8, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that display can be maximized or minimized by a user gesture according to the instructions configured to receive a third predetermined input.

10. The computer-readable medium of claim 8 wherein the third predetermined input is an instruction to maximize a selected one of the first or second desktops or applications, resulting in the selected one being displayed on both of the first and second displays according to the instructions configured to respond to the third predetermined input.

Ex. 1002, p. 449
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

11. The computer-readable medium of claim 8 wherein the third predetermined input is an instruction to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only on either the first and second displays according to the instructions configured to respond to the third predetermined input.

12. A multi-screen user device, comprising:

a first display including a first display area;

a second display including a second display area;

a first user input gesture area of the first display;

a second user input gesture area of the second display, wherein the first and second user input gesture areas are configured to accept input from a user;

a computer-readable medium having instructions stored thereon that include:

a first set of instructions configured to determine a number and identity of desktops or applications selected to be run by a user;

a second set of instructions configured to determine, based on the number and identity of the desktops or applications running, a window stack comprising a logical representation of the desktops and applications within an ordered group whereby a user can selectively move a selected desktop or application within the window stack and to be displayed in either the first or second displays;

a third set of instructions responsive to a gesture made by the user to maximize or minimize a selected one of the first or second desktops or applications; and

wherein the selected one of the first or second desktops or applications is displayed in a maximized or minimized condition.

13. The device of claim 12, wherein at least one of the first or second displays has a visual indicator displayed thereon and signifying that a desktop or application appearing on that display can be maximized or minimized by a user gesture.

14. The device of claim 13, wherein the visual indicator has a wave shape.

Ex. 1002, p. 450
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

15. The device of claim 12, wherein the third set of instructions are instructions to maximize a selected one of the first or second desktops or applications, resulting in the selected one being displayed on both of the first and second displays.

16. The device of claim 12, wherein the third set of instructions are instructions to minimize a selected one of the first or second desktops or applications, resulting in the selected one being displayed only on either the first and second displays.

17. The device of clam 13, wherein the visual indicator appears on the applications or desktops running on both the first and second displays so that gestures made by the user to maximize or minimize a selected one of the first or second desktops or applications enables a user to maximize and minimize the applications or desktops appearing on both the first and second displays sequentially and repeatedly.

Ex. 1002, p. 451
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

ABSTRACT

A dual-screen user device and methods for revealing a combination of desktops on single and multiple screens are disclosed. A determined number of desktops and/or running applications can be selectively displayed on dual screen displays conditioned upon inputs received and the state of the device. Desktop displays and applications can be selectively shifted between the screens by user gestures, and can be moved off of the screens by other user gestures and therefore hidden. The hidden desktops and screens however can be re-displayed by yet another gesture. The desktops and applications are arranged in a window stack that represents a logical order of the desktops and applications allowing a user with an intuitive ability to manage multiple applications/desktops running simultaneously. Visual indicators can be used on the displayed applications and desktops enabling a user to maximize a display on multiple screens or to minimize them on a single selected screen.

Ex. 1002, p. 452
MOTOROLA et al. v. MULTIFOLD
IPR2025-00040

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Filer:	Brent Philip Johnson/Joy Roe-Pachirat
Attorney Docket Number:	6583-69

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:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**1250**

Electronic Acknowledgement Receipt

EFS ID:	11071911
Application Number:	13247728
International Application Number:	
Confirmation Number:	9244
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Customer Number:	22442
Filer:	Brent Philip Johnson/Joy Roe-Pachirat
Filer Authorized By:	Brent Philip Johnson
Attorney Docket Number:	6583-69
Receipt Date:	28-SEP-2011
Filing Date:	
Time Stamp:	18:00:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$1250
RAM confirmation Number	4767
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 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (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_6583_69.pdf	1425233 a884e20f1663faeac5f78c26a2dcfcd70bb4c760	no	5
Warnings:					
Information:					
2	Oath or Declaration filed	Declaration_6583-69_Dual_Screen_Application_Visual_Indicator.pdf	925314 cfe3816f9fa883302aabb00182da5bac7a611118	no	1
Warnings:					
Information:					
3	Drawings-only black and white line drawings	Drawings_6583-69_Dual_Screen_Application_Visual_Indicator_Final.pdf	191225 a0de443389ebc2d7521e060ee38b874b69eb31ad	no	25
Warnings:					
Information:					
4		Application_6583_69_Final.pdf	141291 9e685ad9bcb0452676a8acd4a5a21387866eb888	yes	54

Multipart Description/PDF files in .zip description

Document Description	Start	End
Specification	1	49
Claims	50	53
Abstract	54	54

Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	32822 d466eca0b1bcafea9bb12e2eb067ff412b6780ea	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2715885		

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.

Electronic Acknowledgement Receipt

EFS ID:	11071911
Application Number:	13247728
International Application Number:	
Confirmation Number:	9244
Title of Invention:	DUAL SCREEN APPLICATION VISUAL INDICATOR
First Named Inventor/Applicant Name:	Alexander de Paz
Customer Number:	22442
Filer:	Brent Philip Johnson/Joy Roe-Pachirat
Filer Authorized By:	Brent Philip Johnson
Attorney Docket Number:	6583-69
Receipt Date:	28-SEP-2011
Filing Date:	
Time Stamp:	18:00:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$1250
RAM confirmation Number	4767
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 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (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_6583_69.pdf	1425233 a884e20f1663faeac5f78c26a2dcfcd70bb4c760	no	5
Warnings:					
Information:					
2	Oath or Declaration filed	Declaration_6583-69_Dual_Screen_Application_Visual_Indicator.pdf	925314 cfe3816f9fa883302aabb00182da5bac7a611118	no	1
Warnings:					
Information:					
3	Drawings-only black and white line drawings	Drawings_6583-69_Dual_Screen_Application_Visual_Indicator_Final.pdf	191225 a0de443389ebc2d7521e060ee38b874b69eb31ad	no	25
Warnings:					
Information:					
4		Application_6583_69_Final.pdf	141291 9e685ad9bcb0452676a8acd4a5a21387866eb888	yes	54

Multipart Description/PDF files in .zip description

Document Description	Start	End
Specification	1	49
Claims	50	53
Abstract	54	54

Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	32822 d466eca0b1bcafea9bb12e2eb067ff412b6780ea	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2715885		

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.

SCORE Placeholder Sheet for IFW Content

Application Number: 13247728 Document Date: 9/28/2011

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.

- Drawings – Other than Black and White Line Drawings

Since this was an electronic submission, there is no physical artifact folder, no artifact folder is recorded in PALM, and no paper documents or physical media exist. The TIFF images in the IFW record were created from the original documents that are stored in SCORE.

To access the documents in the SCORE database, refer to instructions developed by SIRA.

At the time of document entry (noted above):

- Examiners may access SCORE content via the eDAN interface.
- Other USPTO employees can bookmark the current SCORE URL (http://es/ScoreAccessWeb/).
- External customers may access SCORE content via the Public and Private PAIR interfaces.

Form Revision Date: February 8, 2006