

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 9,880,715 B2  
APPLICATION NO. : 14/680422  
DATED : January 30, 2018  
INVENTOR(S) : Yves Behar et al.

Page 1 of 1

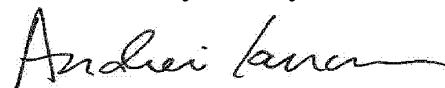
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

At Item (72) Inventors: "Noah Bruce Guyot, Mill Valey, CA (US)" should read ""Noah Bruce Guyot, Mill Valley, CA (US)".

At Item (72) Inventors: "Chris Bambacus, Framington, MA (US)" should read ""Chris Bambacus, Framingham, MA (US)".

Signed and Sealed this  
First Day of May, 2018



Andrei Iancu  
*Director of the United States Patent and Trademark Office*

Docket No.: L2039.70004US03  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

First Named Inventor: Yves Behar  
Application No.: 14/680,422  
Confirmation No.: 5691  
Filed: April 7, 2015  
Patent No.: 9,880,715  
Issued: January 30, 2018  
For: SYSTEM AND METHOD FOR STREAMLINING USER  
INTERACTION WITH ELECTRONIC CONTENT  
Examiner: C. B. Dragoescu  
Art Unit: 2141

<b>Certificate of Electronic Filing under 37 CFR §1.8</b>	
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office's electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4).	
Dated: <u>April 4, 2018</u>	Electronic Signature for: <u>/Eileen M. MacKenzie/</u>

**REQUEST FOR CERTIFICATE OF CORRECTION PURSUANT TO 37 CFR 1.323**

Attention: Certificate of Correction Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Upon reviewing the above-identified patent, Patentee noted typographical errors which should be corrected.

On the Title Page of the Issued Patent,

At Item (72) Inventors: "Noah Bruce Guyot, Mill Valey, CA (US)" should read ""Noah Bruce Guyot, Mill Valley, CA (US)".

At Item (72) Inventors: "Chris Bambacus, Framington, MA (US)" should read ""Chris Bambacus, Framingham, MA (US)".

6135205.1

This request involves correction of Applicant errors. Accordingly, a fee is required. Please charge our Credit Card in the amount of \$150.00 covering the fee set forth in 37 C.F.R. § 1.20(a).

The errors now sought to be corrected are inadvertent typographical errors, the correction of which does not involve new matter or require reexamination.

Transmitted herewith is a proposed Certificate of Correction effecting such amendment. Patentee respectfully solicits the granting of the requested Certificate of Correction.

The Director is hereby authorized to charge any deficiency or credit any overpayment in the fees filed, asserted to be filed or which should have been filed herewith to Deposit Account No. 23/2825, under Docket No. L2039.70004US03.

Dated: April 4, 2018

Respectfully submitted,

Electronic signature: /Edward J. Russavage/  
Edward J. Russavage  
Registration No.: 43,069  
Marcus E. Browne  
Registration No.: 71,897  
WOLF, GREENFIELD & SACKS, P.C.  
600 Atlantic Avenue  
Boston, Massachusetts 02210-2206  
617.646.8000

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO. : 9,880,715  
APPLICATION NO. : 14/680,422  
ISSUE DATE : January 30, 2018  
INVENTOR(S) : Yves Behar et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**On the Title Page of the Issued Patent:**

At Item (72) Inventors: "Noah Bruce Guyot, Mill Valey, CA (US)" should read ""Noah Bruce Guyot, Mill Valley, CA (US)".

At Item (72) Inventors: "Chris Bambacus, Framington, MA (US)" should read ""Chris Bambacus, Framingham, MA (US)".

MAILING ADDRESS OF SENDER (Please do not use Customer Number below):

Edward J. Russavage  
WOLF, GREENFIELD & SACKS, P.C.  
600 Atlantic Avenue  
Boston, Massachusetts 02210-2206

1

6135207.1

## Electronic Patent Application Fee Transmittal

<b>Application Number:</b>	14680422			
<b>Filing Date:</b>	07-Apr-2015			
<b>Title of Invention:</b>	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT			
<b>First Named Inventor/Applicant Name:</b>	Yves Behar			
<b>Filer:</b>	Edward J. Russavage/Eileen MacKenzie			
<b>Attorney Docket Number:</b>	L2039.70004US03			
Filed as Large Entity				
<b>Filing Fees for Utility under 35 USC 111(a)</b>				
<b>Description</b>	<b>Fee Code</b>	<b>Quantity</b>	<b>Amount</b>	<b>Sub-Total in USD(\$)</b>
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
Certificate of correction	1811	1	150	150

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Extension-of-Time:</b>				
<b>Miscellaneous:</b>				
<b>Total in USD (\$)</b>				<b>150</b>

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	32248819
<b>Application Number:</b>	14680422
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	5691
<b>Title of Invention:</b>	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
<b>First Named Inventor/Applicant Name:</b>	Yves Behar
<b>Customer Number:</b>	23628
<b>Filer:</b>	Edward J. Russavage/Eileen MacKenzie
<b>Filer Authorized By:</b>	Edward J. Russavage
<b>Attorney Docket Number:</b>	L2039.70004US03
<b>Receipt Date:</b>	04-APR-2018
<b>Filing Date:</b>	07-APR-2015
<b>Time Stamp:</b>	17:49:45
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$150
RAM confirmation Number	040518INTEFSW17503300
Deposit Account	232825
Authorized User	Wolf Greenfield

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

37 CFR 1.20 (Post Issuance fees)

<b>File Listing:</b>					
<b>Document Number</b>	<b>Document Description</b>	<b>File Name</b>	<b>File Size(Bytes)/ Message Digest</b>	<b>Multi Part /.zip</b>	<b>Pages (if appl.)</b>
1	Miscellaneous Incoming Letter	L203970004US03-TRN-EJR.pdf	26460 a1e11541ddf143fe5eb051fe0e9f03cabf805768	no	1
<b>Warnings:</b>					
<b>Information:</b>					
2	Fee Worksheet (SB06)	L203970004US03-FEE-EJR.pdf	31252 0bc774f401501e2b95507331fcf6b34d8a6a7ddc	no	1
<b>Warnings:</b>					
<b>Information:</b>					
3	Request for Certificate of Correction	L203970004US03-RCOC-EJR.pdf	25137 6f66f6f63d25413ec8010e7c7c6aa02782ed132	no	2
<b>Warnings:</b>					
<b>Information:</b>					
4	Request for Certificate of Correction	L203970004US03-COC-EJR.pdf	13716 d7f78c27d1e72379de89d2cc952763a7e408ab37	no	1
<b>Warnings:</b>					
<b>Information:</b>					
5	Fee Worksheet (SB06)	fee-info.pdf	30819 cf69fc9340c0118ca75ca359dc46ebe42bb532f3	no	2
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>			127384		



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.

<h1>TRANSMITTAL FORM</h1> <p><i>(to be used for all correspondence after initial filing)</i></p>	Application Number	Patent#: 9,880,715
	Filing Date	Issued: January 30, 2018
	First Named Inventor	Yves Behar
	Art Unit	2141
	Examiner Name	C. B. Dragoescu
Total Number of Pages in This Submission	Attorney Docket Number	L2039.70004US03

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please Identify below): <ul style="list-style-type: none"> <li>• Request for Certificate of Correction</li> <li>• Certificate of Correction</li> </ul>
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	WOLF, GREENFIELD & SACKS, P.C.		
Signature	/Edward J. Russavage/		
Printed name	Edward J. Russavage		
Date	April 4, 2018	Reg. No.	43,069

<b>Certificate of Electronic Filing under 37 CFR §1.8</b>	
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office's electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4).	
Dated: <u>April 4, 2018</u>	Electronic Signature for: <u>/Eileen M. MacKenzie/</u>

<b>FEE TRANSMITTAL</b>		Complete if known	
		Application Number	Patent #: 9,880,715
		Filing Date	Issued: January 30, 2018
<input type="checkbox"/>	Applicant asserts small entity status. See 37 CFR 1.27.	First Named Inventor	Yves Behar
<input type="checkbox"/>	Applicant certifies micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.	Examiner Name	C. B. Dragoescu
		Art Unit	2141
TOTAL AMOUNT OF PAYMENT		( <b>\$</b> )150.00	Practitioner Docket No. L2039.70004US03

**METHOD OF PAYMENT** (check all that apply)

Check   
 Credit Card   
 Money Order   
 None   
 Other (please identify): \_\_\_\_\_

Deposit Account   
Deposit Account Number: 23/2825   
Deposit Account Name: Wolf, Greenfield & Sacks, P.C.

For the above-identified deposit account, the Director is hereby authorized to (check all that apply):

Charge fee(s) indicated below   
 Charge fee(s) indicated below, **except for the filing fee**

Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17   
 Credit any overpayment of fee(s)

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES (U = undiscounted fee; S = small entity fee; M = micro entity fee)**

Application Type	FILING FEES			SEARCH FEES			EXAMINATION FEES			Fees Paid (\$)
	U (\$)	S (\$)	M (\$)	U (\$)	S (\$)	M (\$)	U (\$)	S (\$)	M (\$)	
Utility	300	150*	75	660	330	165	760	380	190	
Design	200	100	50	160	80	40	600	300	150	
Plant	200	100	50	420	210	105	620	310	155	
Reissue	300	150	75	660	330	165	2,200	1,100	550	
Provisional	280	140	70	0	0	0	0	0	0	

\* The \$150 small entity status filing fee for a utility application is further reduced to \$75 for a small entity status applicant who files the application via EFS-Web.

**2. EXCESS CLAIM FEES**

Fee Description	Undiscounted Fee (\$)	Small Entity Fee (\$)	Micro Entity Fee (\$)
Each claim over 20 (including Reissues)	100	50	25
Each independent claim over 3 (including Reissues)	460	230	115
Multiple dependent claims	820	410	205

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims	Fee (\$)	Fee Paid (\$)
_____	- 20 or HP = _____	x _____ = _____	_____	_____	_____	_____

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

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
_____	- 3 or HP = _____	x _____ = _____	_____

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

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$400 (\$200 for small entity) (\$100 for micro entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____	- 100 = _____	/50 = _____ (round up to a whole number) x _____ = _____	_____	_____

**4. OTHER FEE(S)**

Non-English specification, \$130 fee (no small or micro entity discount)

Non-electronic filing fee under 37 CFR 1.16(t) for a utility application, \$400 fee (\$200 small or micro entity)

Other (e.g., late filing surcharge): 1811 Certificate of correction 150.00

<b>SUBMITTED BY</b>			
Signature	/Edward J. Russavage/	Registration No. (Attorney/Agent)	43,069 Telephone 617.646.8000
Name (Print/Type)	Edward J. Russavage	Date	April 4, 2018

<b>Certificate of Electronic Filing under 37 C.F.R. § 1.8</b>	
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office's electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4).	
Dated: <u>April 4, 2018</u>	Electronic Signature for: <u>/Eileen M. MacKenzie/</u>

6135243.1



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 NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/680,422	01/30/2018	9880715	L2039.70004US03	5691

23628 7590 01/10/2018  
WOLF GREENFIELD & SACKS, P.C.  
600 ATLANTIC AVENUE  
BOSTON, MA 02210-2206

**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 168 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):

Yves Behar, Oakland, CA;  
LiTL LLC, Boston, MA;  
Joshua Morenstein, San Francisco, CA;  
Christopher Hibmacronan, Oakland, CA;  
Naoya Edahiro, San Francisco, CA;  
Matthew David Day, San Francisco, CA;  
Robert Sanford Havoc Pennington, Asheville, NC;  
Noah Bruce Guyot, Mill Valey, CA;  
Daniel Kuo, San Francisco, CA;  
Jenea Boshart Hayes, Castro Valley, CA;  
Aaron Tang, Somerville, MA;  
Donald Francis Fischer, Charlestown, MA;  
Christian Marc Schmidt, Brooklyn, NY;

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](http://SelectUSA.gov).

<h1>TRANSMITTAL FORM</h1> <p><i>(to be used for all correspondence after initial filing)</i></p>	Application Number	14/680,422-Conf. #5691
	Filing Date	April 7, 2015
	First Named Inventor	Yves Behar
	Art Unit	2141
	Examiner Name	DRAGOESCU, CLAUDIA B
Total Number of Pages in This Submission	Attorney Docket Number	L2039.70004US03

ENCLOSURES (Check all that apply)				
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please Identify below): Issue Fee Payment - PTOL-85 Part B		
<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Remarks</td> <td style="width: 50%;"></td> </tr> </table>			Remarks	
Remarks				

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	WOLF, GREENFIELD & SACKS, P.C.		
Signature	/Marcus E. Browne/		
Printed name	Marcus E. Browne		
Date	December 19, 2017	Reg. No.	71,897

<b>Certificate of Electronic Filing under 37 CFR §1.8</b>	
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office's electronic filing system in accordance with 37 CFR § 1.6(a)(4).	
Dated: December 19, 2017	Electronic Signature: /Trish McDonald/

**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)

WOLF, GREENFIELD & SACKS, P.C.  
 600 Atlantic Avenue  
 Boston, Massachusetts 02210-2206

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

**Certificate of Mailing or Transmission**

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/680,422	04/07/2015	Yves Behar	L2039.70004US03	5691

TITLE OF INVENTION: SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960.00			\$960.00	12/22/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
DRAGOESCU, CLAUDIA B	2141	

<p>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</p> <p><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</p> <p><input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. <b>Use of a Customer Number is required.</b></p>	<p>2. For printing on the patent front page, list</p> <p>(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,</p> <p>(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.</p> <p>1 <u>Wolf, Greenfield &amp; Sacks, P.C.</u></p> <p>2 _____</p> <p>3 _____</p>
---	---

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 LiTL LLC

(B) RESIDENCE: (CITY AND STATE OR COUNTRY) Boston, Massachusetts

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

<p>4a. The following fee(s) are submitted:</p> <p><input checked="" type="checkbox"/> Issue Fee</p> <p><input type="checkbox"/> Publication Fee (No small entity discount permitted)</p> <p><input type="checkbox"/> Advance Order - # of Copies _____</p>	<p>4b. Payment of Fee(s): (<b>Please first reapply any previously paid issue fee shown above</b>)</p> <p><input type="checkbox"/> A check is enclosed.</p> <p><input checked="" type="checkbox"/> Payment by credit card. <u>Form PTO 2038 is attached.</u></p> <p><input checked="" type="checkbox"/> The Director is hereby authorized to charge <u>the required fee(s)</u>, any deficiency, or credit any overpayment, to Deposit Account Number <u>23/2825</u> (enclose an extra copy of this form).</p>
--	--

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 undiscouted 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 _____ /Marcus E. Browne/	Date <u>December 19, 2017</u>
Typed or printed name <u>Marcus E. Browne</u>	Registration No. <u>71,897</u>

## Certificate of Mailing or Transmission under 37 CFR 1.8

I hereby certify that this correspondence is being:

1.  Deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:  
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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

on \_\_\_\_\_  
Date

2.  Facsimile transmitted to the United States Patent and Trademark Office, or  
OR

3.  EFS-Web transmitted to the USPTO.

\_\_\_\_\_  
/Trish McDonald/

Signature

\_\_\_\_\_  
Trish McDonald

Typed or printed name

\_\_\_\_\_  
December 19, 2017

Date

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Issue Fee Transmittal (1 page)

## Electronic Patent Application Fee Transmittal

<b>Application Number:</b>	14680422			
<b>Filing Date:</b>	07-Apr-2015			
<b>Title of Invention:</b>	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT			
<b>First Named Inventor/Applicant Name:</b>	Yves Behar			
<b>Filer:</b>	Marcus E. Browne/Trish McDonald			
<b>Attorney Docket Number:</b>	L2039.70004US03			
Filed as Large Entity				
<b>Filing Fees for Utility under 35 USC 111(a)</b>				
<b>Description</b>	<b>Fee Code</b>	<b>Quantity</b>	<b>Amount</b>	<b>Sub-Total in USD(\$)</b>
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
UTILITY APPL ISSUE FEE	1501	1	960	960



Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Extension-of-Time:</b>				
<b>Miscellaneous:</b>				
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## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	31277867
<b>Application Number:</b>	14680422
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	5691
<b>Title of Invention:</b>	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
<b>First Named Inventor/Applicant Name:</b>	Yves Behar
<b>Customer Number:</b>	23628
<b>Filer:</b>	Marcus E. Browne/Trish McDonald
<b>Filer Authorized By:</b>	Marcus E. Browne
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1	Miscellaneous Incoming Letter	L203970004US03-TRN-MEB.pdf	24737 bddc7e5495ccb8c489a7bf5cc5500bbb108d3915	no	1
<b>Warnings:</b>					
<b>Information:</b>					
2	Issue Fee Payment (PTO-85B)	L203970004US03-ISSFEE-MEB.pdf	49372 1e83e6f317e796aae8196efb97aec0219b8244175	no	2
<b>Warnings:</b>					
<b>Information:</b>					
3	Fee Worksheet (SB06)	fee-info.pdf	30920 e194a687c72976dd734f4b518d138f240bbb84667	no	2
<b>Warnings:</b>					
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<b>FORM PTO-1449/A and B (modified PTO/SB/08)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				APPLICATION NO.: 14/680,422	ATTY. DOCKET NO.: L2039.70004US03
				FILING DATE: April 07, 2015	CONFIRMATION NO.: 5691
				FIRST NAMED INVENTOR: Yves Behar	
				GROUP ART UNIT: 2141	EXAMINER: Claudia B. Dragoescu
Sheet	1	of	1		

**U.S. PATENT DOCUMENTS**

Examiner's Initials #	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
		2002-0190947	A1	Feinstein	12-19-2002
		2006-0017692	A1	Wehrenberg et al.	01-26-2006

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials #	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
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		CN	1926496	A	Apple Computer	03-07-2007	Y-Abstract

**OTHER ART – NON PATENT LITERATURE DOCUMENTS**

Examiner's Initials #	Cite No	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.	Translation (Y/N)
		Canadian Office Action mailed August 18, 2017 in connection with Canadian Application No. 2719828 (L2039.70001CA00).	

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**ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D./**

EXAMINER:  <b>/CLAUDIA B DRAGOESCU/</b>	DATE CONSIDERED:  <b>10/16/2017</b>
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FORM PTO-1449/A and B (modified PTO/SB/08)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				APPLICATION NO.: 14/680,422	ATTY. DOCKET NO.: L2039.70004US03
				FILING DATE: April 07, 2015	CONFIRMATION NO.: 5691
				FIRST NAMED INVENTOR: Yves Behar	
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Sheet	1	of	1		

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Examiner's Initials #	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
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		2002-0190947	A1	Feinstein	12-19-2002
		2006-0017692	A1	Wehrenberg et al.	01-26-2006

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		Office/Country	Number	Kind Code			
		CN	1926496	A	Apple Computer	03-07-2007	Y-Abstract

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Examiner's Initials #	Cite No	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.	Translation (Y/N)
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## Bibliographic data: CN1926496 (A) — 2007-03-07

Methods and apparatuses for operating a portable device based on an accelerometer

**Inventor(s):** WEHRENBURG PAUL J LEIBA AARON [US] ± (WEHRENBURG PAUL J.,LEIBA AARON,WILLIAMS RICHARD C.,FALKENBURG DAVID R.,GERBARG LOUIS G.,CHANG RAY L ; CHANG RAY L ; WEHRENBURG PAUL J, ; LEIBA AARON, ; GERBARG LOUIS G, ; WILLIAMS RICHARD C, ; FALKENBURG DAVID R)

**Applicant(s):** APPLE COMPUTER [US] ± (APPLE COMPUTER)

**Classification:** - international: G06F1/16; G08B13/14  
- cooperative: G08B13/1409; G08B13/1436; G08B25/008

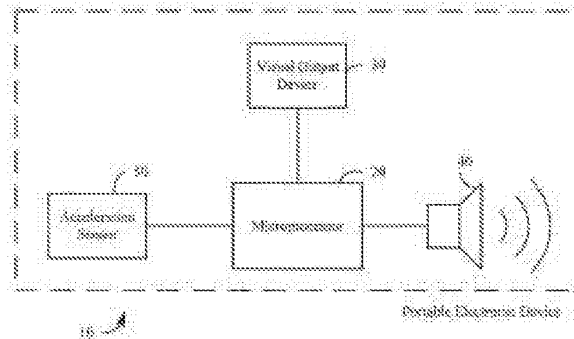
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**Also published as:** CN1926496 (B) US2005190059 (A1) US2007146133 (A1) US2009224914 (A1) US2011227736 (A1) more

### Abstract of CN1926496 (B)

Methods and apparatuses for operating a portable device based on an accelerometer are described. According to one embodiment of the invention, an accelerometer attached to a portable device detects a movement of the portable device. In response, a machine executable code is executed within the portable device to perform one or more predetermined user configurable operations. Other methods and apparatuses are also described.





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[74] 专利代理机构 中国国际贸易促进委员会专利商标  
事务所  
代理人 董莘

权利要求书 18 页 说明书 32 页 附图 31 页

[54] 发明名称

基于加速度计操作便携式设备的方法及装置

[57] 摘要

本发明描述了基于加速度计操作便携式设备的方法及装置。根据本发明的一个实施例，安装到便携式设备的加速度计检测便携式设备的运动。作为响应，机器可执行代码在便携式设备中被执行，以进行一个或多个预定的用户可配置操作。其他方法和装置也被描述。

1. 一种方法，包括：

利用安装到便携式设备的加速度计检测所述便携式设备的运动；

以及

响应于所述便携式设备的运动的检测，执行机器可执行代码，以进行一个或多个预定的用户可配置动作。

2. 根据权利要求1所述的方法，进一步包括：

基于所述加速度计所提供的运动数据，确定所述运动的方向；以

及

将所确定的运动的方向与预定方向相比较，以确定所确定的方向是否与所述预定方向相对匹配，以便执行所述机器可执行代码。

3. 根据权利要求2所述的方法，其中所述便携式设备的运动包括平行于所述便携式设备的表面朝某方向移动所述便携式设备。

4. 根据权利要求2所述的方法，其中所述便携式设备的运动包括相对于所述便携式设备的边和角中至少一个旋转所述便携式设备。

5. 根据权利要求2所述的方法，其中所述便携式设备的运动包括平行于所述便携式设备的表面朝某方向移动所述便携式设备、相对于所述便携式设备的边旋转所述便携式设备、以及相对于所述便携式设备的角旋转所述便携式设备中至少两个的组合。

6. 根据权利要求2所述的方法，进一步包括基于由所述加速度计所收集的运动数据确定所述便携式设备在所述运动后的定向，其中基于所确定的定向执行所述一个或多个预定的用户可配置动作。



7. 根据权利要求6所述的方法，其中所述一个或多个预定的用户可配置动作包括根据与所述图像在所述运动之前的定向相对一致的定向在所述便携式设备的显示屏上显示图像。

8. 根据权利要求7所述的方法，其中所述图像包括文档页面、网页以及幻灯片演示页面中之一。

9. 根据权利要求2所述的方法，进一步包括：

在所述运动之前，在所述便携式设备的显示屏上显示文档的第一页；以及

如果所确定的运动的方向相对匹配所述预定方向，则在所述便携式设备的显示屏上显示所述文档的不同于所述第一页的第二页。

10. 根据权利要求9所述的方法，进一步包括在所述文档的第一页和第二页之间显示一个或多个中间页面，所述一个或多个中间页面表示从所述第一页到所述第二页的转换。

11. 根据权利要求9所述的方法，其中当所述便携式设备的运动被检测时，所述便携式设备被放置在支撑平面上，并且当突发力拍打所述支撑平面时，所述便携式设备的运动被检测。

12. 根据权利要求11所述的方法，进一步包括：

通过所述支撑表面检测由拍打所述支撑平面所导致的所述便携式设备的振动；以及

基于所检测的所述便携式设备的振动产生所述运动数据。

13. 根据权利要求11所述的方法，其中所述文档的第二页被显示为从所述文档的第一页前进的下一页面。

14. 根据权利要求11所述的方法，其中所述文档的第二页被显示为从所述文档的第一页返回的前一页面。

15. 根据权利要求2所述的方法，进一步包括：

在所述运动之前，在所述便携式设备的显示屏上显示文档页面的第一部分；以及

如果所确定的运动的方向与所述预定方向相对匹配，则在所述便携式设备的显示屏上显示所述文档页面的不同于所属第一部分的第二部分。

16. 根据权利要求15所述的方法，进一步包括在所述文档页面的第一和第二部分之间显示一个或多个所述文档页面的过渡部分，所述一个或多个过渡部分表示从所述第一部分到所述第二部分的转换。

17. 根据权利要求16所述的方法，其中从第一部分转换地显示所述第二部分，就像所述便携式设备在移动、而所述文档页面是静止的一样。

18. 根据权利要求16所述的方法，其中根据从用户视点所确定的运动的方向执行从所述第一部分到所述第二部分的转换。

19. 根据权利要求15所述的方法，其中所述文档页面不能被完整地显示在所述便携式设备的显示屏中的一个页面上。

20. 根据权利要求15所述的方法，其中所述文档页面是地图、报纸以及视频游戏场景之一。

21. 根据权利要求2所述的方法，进一步包括：

显示从用户视点看来朝从第一场景到第二场景的方向转换的一

系列图像；

检测所述便携式设备的运动是否和与从用户视点看所述转换的方向相关联的方向一致；以及

如果根据与所述转换的方向相关联的方向没有检测到所述运动，则执行预定操作。

22. 根据权利要求21所述的方法，其中所述预定操作包括下述操作之一：引起所述便携式设备的振动，产生声音报警，以及振动和声音报警的组合。

23. 根据权利要求21所述的方法，进一步包括：

基于由所述加速度计所提供的运动数据，确定所述便携式设备的运动的加速度；以及

用与所述运动的加速度相对关联的加速度调整所述图像序列的显示。

24. 根据权利要求21，其中所述图像序列表示视频游戏的活动场景，并且所述便携式设备表示从拿着所述便携式设备的用户的视点看面向所述运动场景的运动对象。

25. 根据权利要求6所述的方法，进一步包括：

启动所述便携式设备的最适合于给定的确定定向的至少一个接口；以及

可选地，去激励所述便携式设备的较不适合于给定的确定定向的至少一个接口。

26. 根据权利要求25所述的方法，进一步包括：

基于由所述加速度计所提供的运动数据，确定在所述运动之后所述便携式设备是否被用户拿着；以及

预测所述用户用于握持所述便携式设备的手的位置，其中基于所述手的预测位置启动或去激励所述至少一个的接口。

27. 根据权利要求26所述的方法，进一步包括：

启动不在所述预测位置内的至少一个接口；以及

去激励在所述预测位置内的至少一个接口。

28. 根据权利要求25所述的方法，其中所述至少一个接口包括一个或多个无线收发器。

29. 根据权利要求28所述的方法，进一步包括：

启动以相对较强信号通信的至少一个无线收发器；以及

去激励以相对较弱信号通信的至少一个无线收发器。

30. 根据权利要求25所述的方法，其中所述至少一个接口包括一个或多个扬声器。

31. 根据权利要求30所述的方法，进一步包括驱动至少一个扬声器，以在所述运动之后在便携式设备的给定的确定的定向上具有最佳声音效果。

32. 根据权利要求25所述的方法，其中所述至少一个接口包括一个或多个照相机。

33. 根据权利要求25所述的方法，其中所述至少一个接口包括一个或多个麦克风。

34. 根据权利要求25所述的方法，其中所述至少一个接口包括一个或多个视频输出接口。

35. 根据权利要求2所述的方法，进一步包括：

基于由所述加速度计所提供的运动数据，确定所述运动是否是重复运动；以及

确定所述运动的重复率，其中基于所确定的运动的重复率执行所述机器可执行代码。

36. 根据权利要求35所述的方法，其中所述便携式设备是多媒体播放器，并且执行所述机器可执行代码包括通过所述便携式设备播放多媒体内容。

37. 根据权利要求36所述的方法，进一步包括调整当前正被播放的多媒体内容的节奏，以相对匹配所确定的运动的重复率。

38. 根据权利要求36所述的方法，进一步包括选择和播放节拍与所确定的运动的重复率相对匹配的多媒体内容。

39. 根据权利要求36所述的方法，其中所述便携式设备是数字音频播放器。

40. 根据权利要求1所述的方法，进一步包括确定所述便携式设备的包括活动运行状态和非活动运行状态之一的运行状态，其中基于所确定的运行状态执行所述机器可执行代码。

41. 根据权利要求40所述的方法，进一步包括：如果基于所述加速度计所提供的运动数据确定所述便携式设备处于非活动状态并且正在移动，则将所述便携式设备转换到相对较低功率模式。

42. 根据权利要求40所述的方法，进一步包括：如果基于由所

述加速度计所提供的运动数据确定所述便携式设备处于非活动状态并且不是正在移动，则将所述便携式设备转换为睡眠模式。

43. 根据权利要求42所述的方法，其中将所述便携式设备转换为睡眠模式包括：

将所述便携式设备的系统存储器中的至少一部分内容交换到所述便携式设备的永久存储器中；以及

基本关闭所述便携式设备消耗的所有电源。

44. 根据权利要求40所述的方法，其中当所述便携式设备处于非活动状态时，所述便携式设备的盖子是合着的。

45. 根据权利要求40所述的方法，其中当所述便携式设备处于非活动状态时，所述便携式设备的用户接口被锁定。

46. 根据权利要求40所述的方法，其中当所述便携式设备处于非活动状态时，所述便携式设备的接口设备被禁用。

47. 根据权利要求2所述的方法，进一步包括：

在检测所述便携式设备的运动之前，要求用户移动所述便携式设备，作为密码输入的一部分；以及

基于所述便携式设备的运动方向是否相对匹配所述预定方向，指示所述密码是否被正确输入。

48. 根据权利要求47所述的方法，进一步包括在请求所述用户移动所述便携式设备之前，提示所述用户输入所述密码的第一部分，其中基于所述便携式设备的所述运动以及所输入的所述密码的第一部分确定所述密码是否被成功输入的指示。

49. 根据权利要求48所述的方法，进一步包括：在请求所述用户移动所述便携式设备之后，提示所述用户输入所述密码的第二部分，其中基于所述便携式设备的运动以及所输入的所述密码的第一和第二部分确定所述密码是否被成功输入的指示。

50. 根据权利要求2所述的方法，进一步包括：

利用所述加速度计记录一段时间内所述便携式设备的一系列运动；以及

随后利用所记录的运动序列绘制表示所述运动序列的轨迹。

51. 根据权利要求50所述的方法，其中记录所述运动序列包括：

基于所述加速度计所提供的运动数据确定每个运动的运动方向；

以及

记录具有不同运动方向的每个运动之间的时间间隔，其中基于所确定的每个运动的方向以及每个运动之间的时间间隔执行所述绘制。

52. 根据权利要求51所述的方法，进一步包括在绘制之前，将所记录的运动序列存储到所述便携式设备的存储器中。

53. 根据权利要求52所述的方法，其中通过从所述便携式设备的存储器中检索所记录的运动序列离线地执行所述绘制。

54. 根据权利要求2所述的方法，进一步包括：

基于所述加速度计所提供的运动数据，确定所述便携式设备的预定表面是否朝向预定方向；以及

如果所述便携式设备的预定表面朝向所述预定方向，则使所述便携式设备进入相对较低功率模式。

55. 根据权利要求54所述的方法，其中如果所述便携式设备的

显示器表面朝下，则使所述便携式设备进入所述相对较低功率模式。

56. 根据权利要求2所述的方法，进一步包括：

确定所述便携式设备是否处于锁定状态；以及

如果所述便携式设备处于锁定状态，则产生警报以指示所述便携式设备的运动。

57. 根据权利要求56所述的方法，其中产生所述警报包括产生可听到的音频警报。

58. 根据权利要求56所述的方法，其中产生所述警报包括通过网络将信号发送到远程设备。

59. 根据权利要求2所述的方法，进一步包括：

基于所述加速度计所提供的运动数据，确定所述便携式设备的位置简表；以及

根据所确定的位置简表配置所述便携式设备。

60. 根据权利要求59所述的方法，其中配置所述便携式设备包括：如果所述便携式设备与移动简表相关联，则禁用所述便携式设备的无线网络接口以及使能所述便携式设备的蜂窝接口。

61. 根据权利要求1所述的方法，其中所述便携式设备是膝上型计算机、触摸屏PC、PDA（个人数字助理）、蜂窝电话、个人通信器以及多媒体播放器中之一。

62. 一种便携式设备，包括：

处理器；

连接到所述处理器的存储器，所述存储器存储有指令；以及



连接到所述处理器和所述存储器的加速度计，用于检测所述便携式设备的运动，其中所述处理器响应于检测到所述便携式设备的运动而执行来自所述存储器的指令以执行一个或多个预定的用户可配置动作。

63. 根据权利要求62所述的便携式设备，进一步包括连接到所述加速度计以及所述处理器的控制器，所述控制器用于

基于所述加速度计所提供的运动数据，确定所述运动的方向；以及

将所确定的运动的方向与预定方向相比较，以确定所确定的方向是否相对匹配所述预定方向，以便执行所述指令。

64. 一种具有用于使机器执行方法的可执行代码的机器可读介质，所述方法包括：

利用安装到便携式设备的加速度计，检测所述便携式设备的运动；以及

响应于检测到所述便携式设备的运动，执行机器可执行代码，以进行一个或多个预定的用户可配置动作。

65. 根据权利要求64所述的机器可读介质，其中所述方法进一步包括：

基于所述加速度计所提供的运动数据，确定所述运动的方向；以及

将所确定的运动的方向与预定方向相比较，以确定所确定的方向是否相对匹配所述预定方向，以便执行所述机器可执行代码。

66. 一种装置，包括：

用于利用安装到便携式设备的加速度计检测所述便携式设备的运动的单元；以及

用于响应于检测到所述便携式设备的运动而执行机器可执行代码，以进行一个或多个预定的用户可配置动作的单元。

67. 根据权利要求66所述的装置，进一步包括：

用于基于所述加速度计所提供的运动数据确定所述运动的方向的单元；以及

用于比较所确定的运动的方向与预定方向，以确定所确定的方向是否相对匹配所述预定方向，以便执行所述机器可执行代码的单元。

68. 一种方法，包括：

利用安装到便携式设备的加速度计检测所述便携式设备的运动；

基于所述加速度计所提供的运动数据确定所述运动之后所述便携式设备的定向；以及

根据与所述运动之前所述图像的定向相对一致的定向，在所述便携式设备的显示屏上显示图像。

69. 根据权利要求68所述的方法，其中所述图像是文档页面、网页以及幻灯片演示页面之一。

70. 一种方法，包括：

在便携式设备的显示屏上显示文档的第一页；

利用安装到所述便携式设备的加速度计，检测所述便携式设备的运动；以及

响应于运动的检测，显示所述文档的不同于所述第一页的第二页。

71. 根据权利要求70所述的方法，进一步包括基于所述加速度计所提供的运动数据，确定所述运动的方向，其中如果所确定的方向相对匹配预定方向，则显示所述第二页。

72. 根据权利要求71所述的方法，进一步包括在所述文档的第一和第二页之间显示一个或多个中间页面，其中所述一个或多个中间页面表示从所述第一页到所述第二页的转换。

73. 根据权利要求71所述的方法，其中当检测所述便携式设备的运动时，所述便携式设备被放在支撑平面上，并且当突发力敲打所述支撑表面时检测所述便携式设备的运动。

74. 根据权利要求73所述的方法，进一步包括：

通过所述支撑平面检测由敲打所述支撑平面所引起的所述便携式设备的振动；以及

基于所检测到的便携式设备的振动，产生所述运动数据。

75. 根据权利要求73所述的方法，其中所述文档的第二页被显示作为从所述文档的第一页前进的下一页。

76. 根据权利要求73所述的方法，其中所述文档的第二页被显示作为从所述文档的第一页返回的上一页。

77. 一种方法，包括：

在所述便携式设备的显示屏上显示文档页面的第一部分；

利用安装到所述便携式设备的加速度计，检测所述便携式设备的运动；以及

响应于所述检测，在所述便携式设备的显示屏上显示所述文档页面的不同于所述第一部分的第二部分。

78. 根据权利要求77所述的方法，进一步包括基于所述加速度计所提供的运动数据，确定所述运动的方向，其中如果所确定的方向

相对匹配预定方向，则显示所述文档页面的第二部分。

79. 根据权利要求78所述的方法，其中从所述第一部分转换地显示所述第二部分，就好像所述便携式设备在移动、而所述文档页面静止一样。

80. 根据权利要求78所述的方法，其中根据从用户视点确定的所述运动的方向而执行从所述第一部分到所述第二部分的转换。

81. 根据权利要求77所述的方法，其中所述文档页面不能被完整地显示在所述便携式设备的显示器内一个页面上。

82. 根据权利要求77所述的方法，其中所述文档页面是地图、报纸以及视频游戏场景之一。

83. 一种方法，包括：

在便携式设备的显示屏上显示从用户视点看来朝从第一场景到第二场景的方向转换的一系列图像；

利用安装到所述便携式设备的加速度计，检测所述便携式设备的运动；以及

如果所检测到的运动不和与从用户视点看的所述转换的方向相关联的方向一致，则执行预定操作。

84. 根据权利要求83所述的方法，其中所述预定操作包括导致所述便携式设备振动、产生声音报警、以及振动和声音报警的组合之一。

85. 根据权利要求83所述的方法，进一步包括：

基于所述加速度计所提供的运动数据，确定所述便携式设备的运

动的加速度；以及

以和所述运动的加速度相对关联的加速度调整所述图像序列的显示。

86. 根据权利要求83所述的方法，其中所述图像序列表示视频游戏的运动场景，并且所述便携式设备表示从拿着所述便携式设备的用户的视点看面向所述运动场景的运动物体。

87. 一种方法，包括：

利用安装到便携式设备的加速度计，检测所述便携式设备的运动；

基于所述加速度计所提供的运动数据，确定在所述运动之后所述便携式设备的定向；以及

启动所述便携式设备的最适合于给定的确定的定向的至少一个接口。

88. 根据权利要求87所述的方法，进一步包括可选地去激励所述便携式设备的较不适于给定的确定的定向的至少一个接口。

89. 根据权利要求88所述的方法，进一步包括：

基于所述加速度计所提供的运动数据，确定在所述运动之后所述便携式设备是否被用户拿着；以及

预测所述用户用于握着所述便携式设备的手的位置，其中基于所预测的手的位置启动或去激励所述至少一个接口。

90. 根据权利要求89所述的方法，进一步包括：

启动不在所述预测位置内的至少一个接口；以及

去激励位于所述预测位置内的至少一个接口。

91. 根据权利要求88所述的方法，其中所述至少一个接口包括一个或多个无线收发器。

92. 根据权利要求91所述的方法，进一步包括：

启动以相对较强信号通信的至少一个无线接口；以及去激励以相对较弱信号通信的至少一个无线收发器。

93. 根据权利要求88所述的方法，其中所述至少一个接口包括一个或多个扬声器。

94. 根据权利要求93所述的方法，进一步包括驱动至少一个扬声器，从而在所述运动之后，在所确定的便携式设备的定向上具有最佳声音效果。

95. 根据权利要求88所述的方法，其中所述至少一个接口包括一个或多个照相机。

96. 根据权利要求88所述的方法，其中所述至少一个接口包括一个或多个麦克风。

97. 根据权利要求88所述的方法，其中所述至少一个接口包括一个或多个视频输出接口。

98. 一种方法，包括：

利用加速度计检测便携式设备的运动是否是重复运动；

基于所述加速度计所提供的运动数据，确定所述运动的重复率；

以及

基于所确定的运动的重复率，通过所述便携式设备播放多媒体内容。

99. 根据权利要求98所述的方法，进一步包括调整所述多媒体内容的节奏，以相对匹配所确定的运动的重复率。

100. 根据权利要求98所述的方法，进一步包括选择和播放节奏相对匹配所确定的运动的重复率的多媒体内容。

101. 根据权利要求98所述的方法，其中所述便携式设备是数字音频播放器。

102. 一种方法，包括：

利用安装到便携式设备的加速度计，检测所述便携式设备是否正在移动；

确定所述便携式设备的运行状态，所述运行状态包括非活动状态和活动状态之一；以及

如果所述便携式设备正在移动，则基于所确定的运行状态，将所述便携式设备配置到预定功耗模式。

103. 根据权利要求102所述的方法，进一步包括：如果基于所述加速度计所提供的运动数据确定所述便携式设备处于所述非活动状态并且正在移动，则将所述便携式设备转换到相对较低功耗模式。

104. 根据权利要求102所述的方法，进一步包括：如果基于所述加速度计所提供的运动数据确定所述便携式设备处于所述非活动状态并且没有移动，则将所述便携式设备转换到睡眠模式。

105. 根据权利要求104所述的方法，其中将所述便携式设备转换到睡眠模式包括：

将所述便携式设备的系统存储器中内容的至少一部分交换到所

述便携式设备的永久存储器中；以及

基本关掉由所述便携式设备消耗的所有电源。

106. 根据权利要求102所述的方法，进一步包括：

基于由所述加速度计所提供的运动数据，确定所述便携式设备的预定表面是否朝向预定方向；以及

如果所述便携式设备的预定表面朝向所述预定方向，则将所述便携式设备配置为相对较低功耗模式。

107. 根据权利要求106所述的方法，其中如果所述便携式设备的显示器表面朝下，则所述便携式设备被配置为所述相对较低功耗模式。

108. 根据权利要求102所述的方法，其中当所述便携式设备处于所述非活动状态时，所述便携式设备的盖子是闭合的。

109. 根据权利要求102所述的方法，其中当所述便携式设备处于所述非活动状态时，所述便携式设备的用户接口被锁定。

110. 根据权利要求102所述的方法，其中当所述便携式设备处于所述非活动状态时，禁用所述便携式设备的接口设备。

111. 一种方法，包括：

利用安装到便携式设备的加速度计检测所述便携式设备的运动；

基于由所述加速度计所提供的运动数据，确定所述便携式设备的运动方向；以及

调整所显示对象在所述便携式设备的显示屏上的位置，以补偿所述便携式设备的运动，使得调整后的显示对象相对于所述便携式设备的用户保持相对不变的位置。



112. 根据权利要求111所述的方法，其中检测所述便携式设备的运动包括根据预定位置作为时间的函数而检测所述便携式设备的运动。

113. 根据权利要求111所述的方法，进一步包括：

提取由所述加速度计所提供的运动数据的一个或多个相对高的频率分量；以及

基于所提取的一个或多个相对高的频率分量确定所述运动方向，而忽略相对低的频率分量。

114. 根据权利要求113所述的方法，其中所述一个或多个相对高的频率分量表示所述便携式设备的突发运动。

115. 根据权利要求111所述的方法，其中所显示对象包括电子文档。

116. 一种方法，包括：

响应于施加到便携式设备的力，利用安装到所述便携式设备的加速度计检测所述便携式设备的运动；

基于由所述加速度计所提供的加速度信息，计算所述力的幅值和方向；以及

在所述便携式设备的显示屏上将所显示对象从第一位置移动到第二位置，其中基于所计算的力的幅值和方向确定所述第一位置和第二位置之间的方向和距离。

## 基于加速度计操作便携式设备的方法及装置

### 相关申请

本申请是2004年7月13日提交的共同待审美国专利申请No. 10/890,856的部分连续(CIP)，共同待审美国专利申请No. 10/890,856是2003年1月21日提交的共同待审美国专利申请No. 10/348,465、现为美国专利No. 6,768,066的继续，美国专利No. 6,768,066是2000年10月2日提交的共同待审美国专利申请No. 09/678,541、现为美国专利No. 6,520,013的分案申请。

本申请也是2004年3月1日提交的共同待审美国专利申请No. 10/791,495的部分连续(CIP)。上述美国专利申请在此被引入作为参考。

### 技术领域

本发明一般涉及便携式设备。本发明尤其涉及使用便携式设备的加速度计来操作便携式设备。

### 背景技术

加速度计是广泛使用的设备，它的应用有多种多样，例如振动监控、应用控制、游戏杆、工业过程控制、空间发射、卫星控制以及其他应用。例如，加速度计已经被用在汽车中作为检测汽车运动期间运行条件变化的传感器。

随着计算机变得越来越流行，加速度计已经被用在计算机中，以感测计算机的突发运动，诸如自由掉落。加速度计在计算机中的一个典型应用就是保护硬盘驱动器的读/写头。然而，还没有加速度计与计算机中的可执行软件结合使用的应用。

## 发明内容

本说明书描述了基于加速度计操作便携式设备的方法和装置。根据本发明的一个实施例，连接到便携式设备的加速度计检测便携式设备的运动。作为响应，机器可执行代码被执行以进行预定的用户可配置的操作。

根据本发明的一个实施例，便携式设备的加速度计可以连续或周期性地监控便携式设备的运动。因此，基于由连接到便携式设备的加速度计所提供的运动数据，可以确定便携式设备在运动之前以及运动之后的定向(orientation)。

根据本发明另一实施例，加速度计可以被用于检测便携式设备的运动，从而作为触发文档或图形页面是否可以被显示的一种方式。

根据本发明的另一实施例，加速度计可以被用于导航应用中。例如，其中附加有加速度计的便携式设备可以被用作导航工具，以导航通常不能一次被完整地显示在便携式设备的显示屏上的相对较大的对象或文档。

根据本发明的另一实施例，加速度计可以被应用在游戏应用中，其中加速度计可以被用于检测在视频游戏在便携式设备中运行期间的场景变换。

根据本发明的另一实施例，加速度计可以被用于检测便携式设备的运动，并且可以基于加速度计所提供的运动数据确定便携式设备的定向。此后，可以基于所确定的运动后定向，启动或去激励便携式设备的一个或多个接口。

根据本发明的另一实施例，加速度计可以被用于检测和确定带着其中装有加速度计的便携式设备的用户的活动(例如晃动)。

根据本发明的另一实施例，加速度计可以被用于确定便携式设备是否正在移动(例如被用户携带)，以及便携式设备是否应该进入适当的运行状态(例如睡眠或休眠模式)。

根据本发明的另一实施例，加速度计可以被用于检测便携式设备是否根据特定方向移动，以确定密码是否输入正确。

根据本发明的另一实施例，加速度计可以被用于检测和记录便携式设备的一系列运动，其中所记录的运动数据可以被用于随后重建运动历史(例如，离线)。

从附图以及下面的详细描述中可以了解本发明的其他特征。

#### 附图说明

本发明是通过实例来阐述的，但并不限于附图中的图形，在附图中，相似的标号表示类似的元件。

附图1是阐述依据本发明一个实施例的便携式设备的示例性体系结构的框图。

附图2是阐述依据本发明一个实施例的用于响应于加速度计所产生的事件而操作便携式设备的示例性进程的流程图。

附图3A和3B是阐述依据本发明一个实施例的可以使用加速度计的示例性应用的图。

附图4是阐述依据本发明一个实施例的用于基于加速度计重新定向所显示文档的示例性处理器的流程图。

附图5A和5B是阐述依据本发明某些实施例的可以被用于触发文档页面的显示的便携式设备的示例性运动的图。

附图6是阐述依据本发明一个实施例的用于基于加速度计呈现文档的示例性进程的流程图。

附图7A和7B是阐述依据本发明一个实施例的基于加速度计的示例性导航应用的图。

附图8是阐述依据本发明一个实施例的用于基于加速度计导航图像的示例性进程的流程图。

附图9A和9B是阐述依据本发明一个实施例的基于加速度计的示例性游戏应用的图。

附图10A和10B是阐述依据本发明另一实施例的基于加速度计的示例性游戏应用的图。

附图11是阐述依据本发明一个实施例的用于基于加速度计的游

戏应用的示例性进程的流程图。

附图12A和12B是阐述依据本发明一个实施例的用于基于加速度计启动/去激励便携式设备接口的示例性机制的图。

附图13是阐述依据本发明一个实施例的用于基于加速度计操作便携式设备接口的示例性进程的流程图。

附图14A和14B是阐述依据本发明一个实施例的用于利用加速度计启动/去激励便携式设备的多媒体接口的示例性机制的图。

附图15是阐述依据本发明一个实施例的用于基于加速度计重新配置多媒体接口的示例性进程的流程图。

附图16是阐述依据本发明一个实施例的用于基于加速度计播放多媒体内容的示例性进程的流程图。

附图17是阐述依据本发明一个实施例的用于便携式设备的电源管理的示例性进程的流程图。

附图18是阐述依据本发明一个实施例的用于处理密码的示例性进程的流程图。

附图19是阐述依据本发明一个实施例的用于利用加速度计重建运动轨迹的示例性进程的流程图。

附图20是阐述根据本发明一个实施例的具有加速度计的示例性便携式设备的方框图。

附图21是可以与本发明的一个实施例一起使用的数字处理系统的方框图。

附图22是阐述依据本发明一个实施例的用于利用加速度计进行运动补偿的示例性进程的流程图。

附图23是阐述依据本发明一个实施例的用于利用加速度计检测冲击的示例性进程的流程图。

附图24是阐述依据本发明一个实施例的用于利用加速度计操作便携式设备的部件的示例性进程的流程图。

### 具体实施方式

本说明书描述了基于加速度计操作便携式设备的方法和装置。根据某些实施例，加速度计已经被应用于便携式设备中，诸如例如膝上型计算机、触摸屏PC、个人数字助理(PDA)、蜂窝电话以及数字多媒体播放器等。一旦加速度计检测到便携式设备的运动，就基于加速度计所提供的运动数据确定运动方向，也被称为运动矢量或加速度矢量。运动方向和/或运动数据可以被提供给在便携式设备中执行的软件成分(例如应用程序软件)。响应于检测到便携式设备的运动，相应的软件成分基于由加速度计所提供的运动方向和/或运动数据执行一个或多个预定的用户可配置动作，诸如例如前进一页文档等。

在接下来的描述中，阐述许多细节，以提供对本发明更为全面的解释。然而，对于本领域技术人员来说，显然可以不需要这些具体细节而实施本发明。在其他情况中，为了避免使本发明太过晦涩，用方框图的形式表示公知的结构及设备，而不是用细节描述。

下述具体描述中的某些部分是用计算机存储器中数据位上的操作的算法和符号表示的方式提供的。这些算法描述和表示是数据处理领域技术人员用于最有效地向其他本领域技术人员传递他们的工作主旨的方式。算法在这里、并且通常被认为是导致期望结果的有条理的步骤序列。这些步骤是需要物理量的物理控制的那些步骤。通常、尽管不是必要地，这些量是能够被存储、传递、组合、比较、以及控制的电信号或磁信号形式。原则上，为了通用性，已经证实了把这些信号表示为位、值、元件、符号、字符、术语、数字等是方便的。

然而，应该牢记的是，所有这些以及类似的术语要与适当的物理量相关联，并且仅仅是应用于这些物理量的合适标记。除非特别指出，否则从下述的讨论中显然可以看到，在整个说明书中，利用诸如“处理”或“计算”或“运算”或“确定”或“显示”等术语的讨论是指计算机系统或类似电子计算设备的控制计算机系统的寄存器和存储器内的表示为物理(电子)量的数据、以及将它们转换为计算机系统的存储器或寄存器或其他此类信息存储、传送或显示设备内的类似地被表示为物理量的其他数据的动作和进程。

本发明还涉及用于执行这里的操作的装置。该装置可以被特定构造用于需要的目的，或者其可以包括由存储在计算机中的计算机程序选择性地启动或重新配置的通用计算机。这样的计算机程序可以被存储在计算机可读存储介质中，诸如、但不限于任意类型的盘，包括软盘、光盘、CD-ROM、以及磁光盘、只读存储器(ROM)、随机存取存储器(RAM)、可擦除可编程ROM(EPROM)、电可擦除可编程ROM(EEPROM)、磁卡或光卡、或适于存储电指令的任意类型的介质，并且每一个都连接到计算机系统总线。

本文中所表示的算法和显示本质上与任何特定计算机或其他装置都不关联。不同通用系统都可以与根据文中教导的程序一起使用，或者可以证实构造更专门的装置以执行所需方法步骤是很方便的。对于多种这些系统的所需结构将在下面的描述中提供。此外，本发明不参考任意特定编程语言来阐述。应该理解，多种编程语言可以被用于实现文中描述的本发明的教导。

机器可读介质包括用于以机器(例如计算机)可读格式存储或传送信息的任意机制。例如，机器可读介质包括只读存储器(“ROM”)；随机存取存储器(“RAM”)；磁盘存储介质；光学存储介质；闪速存储器设备；电、光、声或其他形式的传播信号(例如载波，红外信号，数字信号等)；等。

#### 概述

附图1是阐述依据本发明一个实施例的便携式设备的示例性体系结构的方框图。在一个实施例中，示例性系统100包括、但不只限于处理器；连接到处理器的存储器，存储器存储有指令；以及连接到处理器和存储器的加速度计，用于检测便携式设备的运动，其中响应于检测到便携式设备的运动，处理器执行来自存储器的指令，以实现一个或多个预定的用户可配置动作。在一个可选实施例中，示例性系统100进一步包括连接到加速度计的控制器的，用于基于由加速度计所提供的运动数据确定运动方向，并且将所确定的运动方向与预定方向进行比较，以确定所确定的方向是否相对匹配预定方向，以便执行指令。

参照附图1，根据一个实施例，示例性系统100包括一个或多个加速度计101、一个或多个连接到加速度计101的控制器102、与运动相关的固件103、运动软件成分104、以及一个或多个应用程序软件105-107。加速度计101可以被安装到便携式设备上，诸如例如安装到便携式设备的主板上。可选地，加速度计101可以与便携式设备的另一组件集成。例如，加速度计101可以与便携式设备的芯片组集成。

根据一个实施例，加速度计101能够检测便携式设备的运动，包括加速和/或减速。加速度计101可以为多个维度产生运动数据，这些运动数据可以被用于确定便携式设备的运动方向。例如，当加速度计101检测到便携式设备被移动时，加速度计101可以产生X、Y和Z轴加速度信息。在一个实施例中，加速度计101可以被实现为在被转让给本申请的共同受让人的美国专利No. 6, 520, 013中所描述的那些设备。可选地，可以利用商业上可用的各种加速度计来实现加速度计101。例如，加速度计101可以是来自Kionix的KGF01加速度计或者来自模拟器件公司(Analog Devices)的ADXL311加速度计。

此外，示例性系统100包括一个或多个连接到加速度计101的控制器102。控制器102可以被用于计算便携式设备的运动方向，运动方向也被称为运动矢量。可以基于加速度计101所提供的运动数据(例如X、Y和Z轴运动信息)，根据一个或多个预定公式确定运动矢量。计算运动矢量的某些实施例将在下文中进行进一步详细描述。

根据一个实施例，控制器102负责监控加速度计101的一个或多个输出，并且与便携式设备的其它组件-诸如例如芯片组(例如存储器控制器或北桥)以及/或者微处理器(例如CPU)-通信。控制器102可以利用商业上可用的多种微控制器来实现。例如，控制器102可以是来自Microchip公司的PIC 16F818微控制器。控制器102可以与加速度计101集成。可选地，控制器102可以与便携式设备的其他组件-诸如例如芯片组或微处理器-集成。

在一个实施例中，控制器102可以通过总线-诸如I2C(inter-IC)总线-以及中断线与其它组件通信。响应于运动数据，



控制器102经由中断线向其他组件-诸如固件103-产生中断,例如硬件中断、软件中断或者二者的结合,以将这样的运动通报给其他组件。此外,控制器102可以进一步基于由加速度计101所提供的运动数据计算运动矢量。有关控制器102和便携式设备的其他组件之间的通信的详细信息将在下文中进一步描述。

返回到附图1,运动固件103包括可以被嵌入到便携式设备的一个或多个硬件组件-诸如例如控制器102或芯片组(例如BIOS的一部分, BIOS也被称为基本输入/输出系统)-内的一段或多段机器可执行代码。在一个实施例中,运动固件103可以被存储在控制器102的只读存储器(ROM)(例如闪速存储器)中。然而,可以通过将更新版本上载到存储器中、例如利用闪速应用程序(flash utility)来升级运动固件103的机器可执行代码。固件103可以负责检测响应于运动检测而产生的任何事件。根据一个实施例,固件103提供控制器102和便携式设备的其他组件-诸如例如操作系统(OS)之间的主通信机制。

运动软件104可以负责运动固件103和其他软件成分-诸如应用程序软件成分105-107-以及操作系统之间的通信。在一个实施例中,运动软件104可以被实现为操作系统的一部分,诸如例如设备驱动程序的核心组件等。操作系统可以用商业上可用的多种操作系统来实现。例如,操作系统可以是Apple Computer(苹果电脑)公司的Mac OS。可选地,操作系统可以是Microsoft(微软)公司的Windows操作系统。其他操作系统-诸如例如Unix、Linux、嵌入式操作系统(例如Palm OS)或实时操作系统-也可以被实现。

根据一个实施例,响应于可以由运动固件103通知的运动检测事件,运动软件成分104可以向一个或多个应用程序软件105-107通信该事件。响应于检测,应用程序软件105-107可以执行某些操作。应用程序105-107可以是多种不同的应用程序,诸如例如浏览器、文字处理器、幻灯片显示等。应用程序105-107所执行的操作的某些实施例将在下文中进一步详细描述。

附图2是阐述依据本发明一个实施例的用于响应于由加速度计所产生的事件而操作便携式设备的示例性进程的流程图。示例性进程200可以由处理逻辑执行，处理逻辑可以包括硬件（电路，专用逻辑等）、软件（诸如运行在专用机器上的软件），或者两者的组合。在一个实施例中，示例性进程200包括、但不只限于利用安装在便携式设备的加速度计检测便携式设备的运动，以及响应于检测到便携式设备的运动而运行机器可执行代码以执行一个或多个预定的用户可配置动作。

参照附图2，在方框201中，利用安装在便携式设备上的加速度计（例如附图1的加速度计）检测便携式设备-诸如例如膝上型计算机或触摸屏PC-的运动。在一个实施例中，响应于检测，加速度计可以为多个维度（例如X，Y和Z轴）产生运动数据。响应于检测，在方框202中，基于由加速度计所提供的运动数据确定运动的方向。在一个实施例中，由控制器（例如附图1中的控制器102）确定运动方向。响应于所确定的方向，在方框203中，一段或多段机器可执行代码（例如应用程序软件）可以被执行，以完成一个或多个预定的用户可配置动作，诸如例如前进网页等。其他操作也可以被执行。

#### 基于加速度计确定定向

根据本发明的一个实施例，便携式设备的加速度计可以连续地或周期性地监控便携式设备的运动。因此，可以基于由安装在便携式设备上的加速度计所提供的运动数据确定运动之前和运动之后便携式设备的定向。

附图3A和3B是阐述依据本发明一个实施例的可以利用加速度计的示例性应用的图。在这个实施例中，并且在整个应用中，触摸屏设备被用作便携式设备的示例。但便携式设备并不只限于此。应该认识到，也可以应用其他便携式设备，诸如膝上型计算机、个人数字助理(PDA)、个人通信器(例如Research In Motion公司的blackberry)、蜂窝电话、或多媒体播放器(例如MP3播放器)等。

参照附图3A和3B，首先根据一个实施例，便携式设备处于定向

301，其中在便携式设备的显示屏上显示文档页面303。在定向301中，从面向给定定向301的显示屏的用户视点来看，文档页面303被正确显示，其中定向301可以被加速度计以及与之相关联的控制器周期性地或连续地检测和确定。

当便携式设备被移动时，例如按照移动方向304移动并结束在定向302，加速度计(附图1中的加速度计101)可以检测这种运动。响应于检测，控制器(例如附图1中的控制器102)可以基于加速度计所提供的运动数据确定运动方向，并且通知便携式设备的适当组件，诸如例如附图1中的固件103、运动软件104以及/或者应用程序105-107。这种通知可以通过中断或通过拉出控制器和/或加速度计的一个或多个寄存器而被实现。此外，控制器可以进一步确定运动后便携式设备的定向。

依据一个实施例，响应于通知，可以根据所确定的运动后的定向调整文档页面303的定向，如附图3B所示。在一个实施例中，所显示的文档页面的定向可以在运动之后被调整，从而与运动之前的定向相对一致。因此，尽管便携式设备的定向已经改变，但所显示的文档页面的定向仍然保持相对一致，尤其是在面向便携式设备的显示屏的用户的视点上。

在这个实施例中，文档页面303的定向的调整可以通过将所显示的数据(例如文档页面)传送给便携式设备的显示屏的显示驱动程序(例如视频驱动程序)实现。可选地，定向的调整可以通过提供文档页面303的原始应用程序软件(例如附图1的应用程序105-107)(例如提供网页的浏览器或提供文档页面的文字处理器)来实现。注意，附图3A和3B所示的运动方向304只是用于说明的目的。其它运动方向、诸如附图5A所示的那些运动方向或者它们的组合也可以被实现。此外，仅仅为了说明的目的，如附图3A和3B所示，便携式设备被向左旋转90度。便携式设备可以被旋转、平移或者二者或多个维度并且以任意运动步长的组合。

附图4是依据本发明一个实施例的用于基于加速度计重新定向所

显示文档的示例性处理器的流程图。示例性进程400可以由处理逻辑执行，其中处理逻辑可以包括硬件（电路，专用逻辑等）、软件（诸如运行在专用机器上的软件）、或者二者的组合。在一个实施例中，示例性进程400包括、但不只限于利用安装到便携式设备的加速度计来检测便携式设备的运动，基于由加速度计所提供的运动数据确定运动后便携式设备的定向，以及根据与运动前图像的定向相对一致的定向将图像显示在便携式设备的显示屏上。

参照附图4，在方框401，利用安装到便携式设备的加速度计检测便携式设备从第一定向开始的运动。响应地，在方框402，基于由加速度计所提供运动数据、诸如X、Y及Z轴信息，运动方向被确定。在一个实施例中，可以由连接到加速度计的控制器的控制器（例如附图1中的控制器102）执行确定。可以根据一个或多个预定公式确定运动方向。在方框403，在运动之后，可以基于由加速度计所提供的运动数据确定便携式设备的第二定向。在方框404，可以基于所确定的第二定向调整所显示文档页面的定向。在一个实施例中，所显示文档页面的定向可以被调整，使得调整后的文档页面的定向与运动前的定向相对一致，尤其是从用户的视点上来看。其它操作也可以被执行。

#### 基于加速度计显示不同文档页面

根据本发明的另一实施例，加速度计可以被用于检测便携式设备的运动，作为触发是否可以显示文档或图像页面的方式。例如，当便携式设备朝预定方向被移动（例如突然的运动）时，加速度计可以检测这个运动，并且应用程序软件可以响应于检测到运动而显示特定页面。

附图5A是阐述依据本发明一个实施例的可以被用于触发文档页面显示的便携式设备的示例性运动的图。例如，参照附图5A，文档的第一页面被显示在便携式设备500的显示屏507上。当便携式设备500在某些方向上被移动时，安装到便携式设备500的加速度计（例如附图1的加速度计101）可以检测这样的运动。响应于检测，加速度计可以经由相关的控制器、固件和/或操作系统通知其他组件、诸如应用

程序软件，尤其是通知提供正被显示的文档的第一页面的组件。

在一个特定实施例中，加速度计可以通知控制器（例如附图1中的控制器102），包括提供运动数据（例如X、Y和Z轴）。控制器和/或固件可以基于由加速度计所提供的运动数据计算运动的运动矢量。其后，控制器可以向其他组件-诸如运动软件成分（例如运动软件104）以及/或者操作系统-发送信号。运动软件以及/或者操作系统可以将运动矢量与预定方向进行比较，以确定运动矢量是否与预定方向相对匹配，例如基于预定阈值确定。

在一个实施例中，预定方向以及与这个预定方向相关联的阈值（例如灵敏度）可以由用户通过用户接口配置。这种灵敏度可以基于在给定时间和地点与便携式设备相关联的不同轮廓来配置。例如，当便携式设备位于家里/办公室时，与它位于运动的平台（例如汽车、火车、轮船或飞机等）上相比，便携式设备的灵敏度可以不同。在另一实施例中，便携式设备可以包括智能地过滤掉某些“嘈杂的”运动背景的机制。

如果运动矢量相对匹配预定方向，则可以通知相关的应用程序软件。作为响应，相关应用程序软件可以执行某些操作，包括在显示屏上显示与第一页面不同的第二页面。

在一个实施例中，文档的第二页面可以是文档的下一页或前一页。文档可以是由文字处理器-诸如Microsoft Office的文字处理器-所创建的文字文档。可选地，文档可以是由浏览器-诸如Microsoft的互联网浏览器(Internet Explorer)或者Netscape Communications的Netscape通讯器-所呈现的网页。此外，文档可以是幻灯片显示，例如由Microsoft的PowerPoint或Apple Computer的Keynote所显示的。

参照附图5A，运动方向可以包括与便携式设备表面（例如便携式设备的显示器表面507）平行的运动方向，如方向501和502所示。可选地，运动方向可以包括便携式设备相对于平行于便携式设备边缘（例如边缘505和506）的轴线的旋转，如方向503和504所示。而

且，便携式设备的运动方向可以是上述方向的组合。例如，运动可以是相对于便携式设备500的角的多维旋转。也可以使用其它类型的运动。

附图5B是阐述根据本发明一个可选实施例的可以被用于触发文档页面显示的便携式设备的示例性运动的图。在这个实施例中，便携式设备551可以被放置在支撑平面552上。此外，运行在便携式设备551中的应用程序软件可以被配置为“缺省”模式。当突发的力被施加到支撑表面552时，突发的力引起支撑平面552的振动。突发的力可以通过用户轻敲(tabbing)支撑平面552而被提供。

响应于支撑表面552的振动，安装到便携式设备551的加速度计可以检测这种振动。响应于检测，加速度计可以通过固件和/或控制器等通知相关的应用程序软件。作为响应，应用程序软件可以显示文档的下一页、上一页或者特定页，这可以由用户通过用户接口配置。当便携式设备被放置在桌面上或与演示投影机一起被挂起时，这尤其有用。进行演示的用户可以简单地轻敲桌子来前进到演示的下一页，而不必按便携式设备的键盘的键(例如“Enter”键或空格键)或鼠标。

附图6是阐述依据本发明一个实施例的基于加速度计显示文档的示例性进程的流程图。示例性进程600可以由处理逻辑执行，处理逻辑可以包括硬件(电路、专用逻辑等)、软件(诸如运行在专用机器上的软件)或者这二者的组合。在一个实施例中，示例性进程600包括、但不只限于将文档的第一页面显示在便携式设备的显示屏上，利用安装到便携式设备的加速度计检测便携式设备的运动，以及响应于检测到运动而显示不同于第一页面的第二文档页面。

参照附图6，在方框601，利用安装到便携式设备的加速度计来检测便携式设备的运动。响应于检测，在方框602中，基于由加速度计所提供的运动数据、例如X、Y、Z轴信息，确定运动的运动方向。在一个实施例中，可以由相关联的控制器和/或相关联的固件确定运动方向。在方框603，确定运动方向是否和预定方向相对匹配。如果匹配，则在方框604，通知在已经显示第一文档页面的便携式设备中所

运行的相关应用程序软件。作为响应，在方框605，应用程序软件显示与第一页面不相同的第二文档页面。其它操作也可以被执行。

#### 基于加速度计的导航应用

根据本发明另一实施例，加速度计可以被用于导航应用。例如，其中装有加速度计的便携式设备可以被用作导航工具，以导航通常不能一次被完整地显示在便携式设备的显示屏内的较大对象或文档。

附图7A和7B是阐述依据本发明一个实施例的基于加速度计的示例性导航应用的图。在这种实施例中，起初地图的一部分被显示，如附图7A所示。地图通常不能以一定详细程度作为整体被完整地显示在便携式设备700的显示屏中。例如，当用户“放大”地图时，只有一部分地图能够被显示在显示屏上。当用户导航遍及地图的第一部分时，用户可能希望从第一部分逐渐导航到地图的第二部分。

根据一个实施例，拿着便携式设备700的用户可以朝着用户所希望导航的方向、例如根据方向703（例如以东北方向为例）移动便携式设备700。响应于运动，安装到便携式设备700的加速度计可以检测这样的运动。加速度计可以为便携式设备的控制器和/或固件提供运动数据（例如X、Y和Z轴信息）。相关联的控制器和/或固件可以基于由加速度计所提供的运动数据，利用一个或多个预定公式，计算运动方向和/或运动距离。其后，控制器和/或固件可以将运动方向传递给当前正提供地图的相关应用程序软件。

作为响应，应用程序软件可以基于由控制器和/或固件所提供的运动方向、运动距离以及/或者运动加速度数据来确定地图的第二部分。相应地，应用程序软件随后显示第二部分。因此，用户不必按压和/或点击按钮以导航地图的其它部分。注意，图示的运动方向703只是为了说明的目的。任意其它方向也可以被应用。

在一个实施例中，地图的第二部分可以通过从第一部分过渡来显示。也就是说，第一部分和第二部分之间的多个中间部分可以被顺序显示，以构成从第一部分到第二部分的过渡。因此，第二部分逐渐地“进入”便携式设备的显示屏。依据一个实施例，从第一部分到第二部分的

过渡被显示，就像用户在较大的地图上移动便携式设备而地图保持稳定一样。在这种实施例中，过渡被显示，就像用户拿着便携式设备作为放大器来导航大的地图、大的报纸或网页等一样。

根据另一实施例，某些运动可以被用于“放大”或“缩小”所显示的页面。例如，平行于便携式设备表面（例如显示器表面）的运动可以被用于导航显示页面的不同部分，而便携式设备的旋转可以被用于放大或缩小显示页面，这可以改变显示页面的分辨率。例如，用户可以将便携式设备向上倾斜以作为缩小的方式，并且可以向下倾斜便携式设备以作为放大的方式。其他运动方向、诸如附图5A所示的那些方向或那些方向的组合也可以被利用。

根据另一实施例，上述技术可以被用于虚拟现实环境中。在一个实施例中，允许用户使用便携式显示设备所装配的加速度计作为进入虚拟现实图像数据库的轻便和可控的窗口。例如，拿着触摸屏设备的用户可以转向并且看到从二维或三维图像或对象数据库中的位置向后看到的景象，就像用户在虚拟现实游戏空间里漫步一样。根据另一实施例，用户可以实现图像全景的观察，其中不同方向的景象由从单个位置指向不同方向的多个照相机提供。

附图8是阐述依据本发明一个实施例的基于加速度计导航图像的示例性进程的流程图。示例性进程800可以由处理逻辑执行，处理逻辑可以包括硬件（电路、专用逻辑等）、软件（诸如运行在专用机器上的软件）、或两者的组合。在一个实施例中，示例性进程800包括、但不只限于运动之前在便携式设备的显示屏上显示文档页面的第一部分，并且如果所确定的运动方向和预定方向相对匹配，则在便携式设备的显示屏上显示不同于第一部分的文档页面的第二部分。

参照附图8，在方框801，图像的第一部分（例如附图7A所示的地图的一部分）被显示在便携式设备的显示屏上。图像可以是全景图像、虚拟现实图像数据库、三维图像数据库或由多部照相机输入所构成的环境等的一部分。在方框802，利用安装到便携式设备的加速度计检测便携式设备的运动。响应于检测，在方框803，基于由加速度



计所提供的运动数据(例如X、Y和Z轴信息)计算运动方向。在一个实施例中,响应于检测,加速度计将运动数据发送给相关的控制器和/或固件。控制器和/或固件可以基于运动数据计算运动方向。可选地,运动方向的计算可以由便携式设备的其他组件-诸如例如附图1的运动软件组件104和/或便携式设备的操作系统-执行。在方框804,基于所确定的运动方向显示图像的第二部分。在一个实施例中,图像的多个中间部分可以被显示,这些中间部分构成从第一部分到第二部分的过渡。第二部分被显示得好像便携式设备在运动而所显示图像保持稳定一样。其它操作也可以被执行。

#### 基于加速度计的游戏应用

根据本发明的另一实施例,加速度计可以被用于游戏应用,其中加速度计可以被用于检测视频游戏在便携式设备上运行期间的场景转换。

附图9A和9B是阐述根据本发明一个实施例的基于加速度计的示例性游戏应用的图。在这个实施例中,作为示例,用户正手握便携式设备900作为方向盘,就好像用户正面对第一场景901驾驶汽车。当用户朝一个方向、诸如例如方向903移动(例如旋转)便携式设备时,所显示的场景可以被改变为附图9B所示的第二场景。

根据一个实施例,当拿着便携式设备900的用户按照方向903移动时,安装到便携式设备的加速度计检测这样的运动。加速度计可以将运动数据(例如X、Y和Z轴信息)提供给便携式设备的控制器和/或固件。基于由加速度计所提供的运动数据,相关的控制器和/或固件可以利用一个或多个预定公式计算运动方向。随后,控制器和/或固件可以将运动方向和/或运动距离或加速度传递给当前正提供游戏的相关游戏应用程序软件。

作为响应,游戏应用程序软件可以基于由控制器和/或固件所提供的运动方向、运动距离以及/或者运动加速度来确定游戏的第二场景。相应地,游戏应用程序软件随后显示第二场景。因此,为了改变游戏的场景,用户不必按压和/或点击按钮。注意,图示的运动方向903

只是用于说明的目的。任何其它方向也可以被应用。

在一个实施例中，游戏的第二场景可以通过从第一场景的过渡而被显示。也就是说，第一场景和第二场景之间的多个中间场景可以被顺序显示，以构成从第一场景到第二场景的过渡。因此，第二场景逐渐地“进入”便携式设备的显示屏中。

根据另一实施例，某些运动可以被检测，作为使运行的汽车加速和/或减速的方式。例如，当便携式设备向上倾斜(例如类似于加大油门)时，所显示的场景可以变为显示汽车的加速。同样地，当便携式设备向下倾斜(例如类似于踩刹车)时，所显示的场景可以变为显示汽车的减速。

此外，加速度计可以被用于检测便携式设备的运动是否超出某些阈值。如果超出，则一个或多个预定的用户可配置动作可以被执行。例如，在驾驶游戏中，当用户将汽车驶离公路时，警告消息可以被传递给用户用于这样的指示。

附图10A和10B是阐述依据本发明另一实施例的基于加速度计的示例性游戏应用的图。在这个实施例中，用户正手握内置有加速度计的便携式设备作为汽车的方向盘。如附图10A所示，当场景包括向左弯曲的道路时，为了停留在道路上，要求用户向左旋转方向盘。安装到便携式设备的加速度计可以被用于检测便携式设备(例如方向盘)是否已经相应地被旋转以及旋转角度和距离是否合适。

如果检测到便携式设备的旋转并没有旋转或旋转得不够，则相关的游戏应用程序软件可以执行某些预定动作。例如，游戏应用程序可以对用户产生警告，诸如例如便携式设备的振动或语音警报等等。此外，离开道路的场景可以被显示。如果检测到用户长达一段时间没有对路面状况做出反应，则撞车的场景可以被相应地显示。

根据某些实施例，其他运动方向可以被用于从拿着便携式设备的用户的视点“向上看”和“向下看”。例如，在飞行游戏中，用户可能拿着便携式设备，就像用户正在开动飞行对象(例如飞机)，其中加速度计可以被用于检测便携式设备的运动，以便确定飞行对象将朝向哪

里。例如，当便携式设备向上倾斜时，飞行对象上升，而当便携式设备向下倾斜时，飞行对象下降。其他方向、诸如例如附图5A所示的那些方向或他们的组合可以被用于使飞行对象飞往任意方向。

同样，在依据一个实施例的射击游戏中，除了上述可以被用于向上看、向下看以及/或者向周围看的运动之外，便携式设备的平行于便携式设备的显示表面的垂直运动可以被用于检测用户是在站立的射击位置还是在藏匿位置。例如，当向下移动便携式设备时，保护障碍可以被显示阻挡对手，以表示拿着便携式设备作为射击武器的用户藏匿在保护障碍之后。当向上移动便携式设备时，保护障碍可以被移除而暴露对手，以表示用户处在没有保护的射击位置。其它游戏配置也可以存在。

附图11是阐述依据本发明一个实施例的基于加速度计的游戏应用程序的示例性进程的流程图。示例性进程1100可以由处理逻辑执行，处理逻辑可以包括硬件（电路、专用逻辑等）、软件（诸如运行在专用机器上的软件）或者二者的组合。在一个实施例中，示例性进程1100包括、但不只限于显示从用户视点看到的、朝这从第一场景到第二场景方向过渡的一系列图像；检测便携式设备的运动是否和从用户视点看到的变换方向相关联的方向一致；以及如果根据与变换方向相关联的方向没有检测到运动，则执行预定操作。

参照附图11，在方框1101，从第一场景变换到第二场景的一系列图像（例如驾驶游戏）被显示在便携式设备的显示屏上。在方框1102，利用安装到便携式设备的加速度计检测便携式设备的运动。在方框1103，基于由加速度计所提供的运动数据确定便携式设备的运动方向。在一个实施例中，运动方向由连接到加速度计的控制器和/或固件确定，类似于附图1所示的配置。响应于所确定的运动方向，在方框1104中，一个或多个预定操作-诸如例如导致便携式设备的振动、产生音频警报或者二者的组合-可以被执行。其它操作也可以被执行。

基于加速度计启动/去激励设备

根据本发明另一实施例，加速度计可以被用于检测便携式设备的运动，并且可以基于加速度计所提供的运动数据而确定便携式设备的定向。其后，可以基于所确定的运动后的定向而启动或去激励便携式设备的一个或多个接口。

附图12A和12B是阐述依据本发明一个实施例的基于加速度计启动/去激励便携式设备的接口的示例性机制的图。在这个实施例中，如附图12A的配置1201所示，多个接口1204-1207被设置在便携式设备的多个位置。作为示例，接口1204-1207在文中被描述为无线接口、诸如例如天线或无线收发器。应该理解，其它接口也可以被应用。

参照附图12A，最初对于给定定向1201，文档1203被显示。根据一个实施例，当用户在定向1201举起便携式设备时，安装到便携式设备的加速度计可以检测这样的运动，并且由类似附图1所示的连接到加速度计的相关控制器和/或固件确定定向1201。由所确定的定向，可以确定在定向1201的情况下，无线接口1204和1205处于发送和/或接收无线信号的最佳位置(例如接收和/或发送最强的信号)，而无线接口1206-1207处于相对较弱的位置。因此，无线接口1204-1205可以被启动，而无线接口1206-1207可以可选地被去激励。

当便携式设备被移动时，例如按照方向1208旋转90度，便携式设备可能停在不同的定向1202，如附图12B所示。安装到便携式设备的加速度计可以检测这样的运动，并且将运动数据传输给上述便携式设备的其它组件。除了如上参照附图3A和3B所述维持文档页面的定向与运动前定向相对一致地被显示之外，无线接口1204-1207可以被重新评估，以确定现有配置对于运动后的定向是否仍然是最佳配置。

在这个实施例中，假设便携式设备顶部和底部的无线接口被认为是最佳位置。在运动之后(例如，左转90度)，最初处于最佳位置的无线接口1204-1205可能不再处于最佳位置了。相反，原来不在最佳位置的无线接口1206-1207现在可能处在最佳位置。因此，响应于检测到运动以及确定运动后的定向，无线接口1206和1207可以被启动，如粗体所示，这是因为他们处于最佳位置。同样，无线接口1204-1205

可以被去激励，因为他们不再处于最佳位置。

此外，除了检测便携式设备是否被移动之外，还基于由加速度计所提供的运动数据确定便携式设备是否被用户捡起或手握着。在一个实施例中，这样的确定可以由类似于附图1所示的结构连接到加速度计的控制器和/或固件执行。如果确定便携式设备被用户手握着，则可以进一步确定或预测拿着便携式设备的用户的手1208-1209的位置。

例如，在附图12A所示的定向1201中，在预测用户的手的位置之后，可能被手1208-1209遮盖的一个或多个无线接口-诸如无线接口1207和1208-可以被去激励。同样，在附图12B所示的运动后的定向1202中，无线接口1204和1205可以被去激励，因为预测它们被用户的手所遮盖。

附图13是阐述根据本发明一个实施例的用于基于加速度计操作便携式设备的接口的示例性进程的流程图。示例性进程1300可以由处理逻辑执行，其中处理逻辑可以包括硬件（电路、专用逻辑等）、软件（诸如运行在专用机器上的软件）、或二者的组合。在一个实施例中，示例性进程1300包括、但不只限于利用安装到便携式设备的加速度计检测便携式设备的运动，基于由加速度计所提供的运动数据确定运动后的便携式设备的定向，以及启动便携式设备的在所确定定向的情况下最适合的至少一个接口。

参照附图13，在方框1301，利用安装到便携式设备的加速度计检测便携式设备的运动，其中便携式设备包括设置在多个位置上的多个接口（例如无线接口）。在方框1302，基于由加速度计所提供的运动数据确定运动后便携式设备的定向。在方框1303，可选地，基于由加速度计所提供的运动数据确定便携式设备是否被用户捡起或拿着。如果是，则预测拿着便携式设备的用户的手的位置。在方框1304，基于所确定的定向，一个或多个接口可以被启动或去激励。可选地，某些被预测的用户的手所遮盖的接口可以被去激励，而那些没有被遮盖的接口被启动。其他操作也可以被执行。

根据一个实施例，上述技术也可以被应用到便携式设备的多媒体接口。附图14A和14B是阐述根据本发明一个实施例的利用加速度计启动/去激励便携式设备的多媒体接口的示例性机制的框图。在这个实施例中，作为示例，一个或多个扬声器被用作便携式设备的多媒体接口。参照附图14A，便携式设备包括设置在便携式设备的不同位置上的多个扬声器1405-1408，并且可选地在便携式设备的显示屏上显示文档页面1403。在运动前的定向1401中，考虑左侧的扬声器1405-1406和右侧的扬声器1407-1408，可以配置音频驱动程序以产生适当的3D环绕声。当便携式设备被移动时，例如按照运动方向1404旋转90度，通过加速度计以及加速度计的相关联控制器和/或固件检测并确定第二定向1402，如附图14B所示。

响应于检测，除了如上参考附图3A和3B所述保持文档页面1403的定向与运动之前的定向相对一致地被显示之外，扬声器1405-1408的位置可以被重新评估，以确定现有配置对于运动后的定向是否仍然是最佳配置。在这个实例中，如附图14B所示，最初的左侧扬声器1405和1406位于底部，而最初的右侧扬声器1407和1408位于顶部。因而，现有声音条件已经改变，并且声音效果不再处于最佳状态。因此，音频驱动程序可能被重新配置以产生与便携式设备运动之前相对相当的声音质量。例如，扬声器1405和1407可以被用作左侧扬声器，而扬声器1406和1408可以被用作右侧扬声器，以便产生合适的声音效果。其他配置也可以存在。

附图15是阐述根据本发明一个实施例的用于基于加速度计重新配置多媒体接口的示例性进程的流程图。示例性进程1500可以由处理逻辑执行，处理逻辑可以包括硬件（电路、专用逻辑等）、软件（诸如运行在专用机器上的软件）或二者的组合。参照附图15，在方框1501，利用安装到便携式设备的加速度计检测便携式设备的运动，其中便携式设备包括多个设置在不同位置的多媒体接口或设备。在方框1502，基于由加速度计所提供的运动数据确定便携式设备运动后的定向。在方框1503，可以可选地基于所确定的定向启动或去激励一个或

多个多媒体接口。在方框1504，驱动一个或多个多媒体设备，以在所确定的运动后定向的情况下产生最佳效果。其他操作也可以被执行。

尽管在本文中以无线接口和音频接口作为示例，但并不只限于这两种接口。其他类型的接口-诸如例如视频接口、麦克风以及照相机-也可以被应用。

根据本发明的某些实施例，某些设备只有当机器位于某个定向或位于与它通常被使用时的定向不同的定向时才能被适当地使用。例如，媒体插入可能要求设备被侧立放置或是正面朝下放置以提供接入。弹出媒体可能需要设备被侧立放置或是正面朝下放置，以防止媒体被阻碍或掉落地上。

例如，根据一个实施例，用户可以通过按压按钮或其他控制启动将媒体从媒体设备或组件的弹出(例如CD从CD ROM设备中弹出)。设备准备弹出媒体或卸下磁盘等。此时，利用安装到便携式设备的加速度计，控制这个设备的控制模块或应用程序软件可以检测到便携式设备不处于适于弹出媒体的位置。因此，设备可以通过周期性地或连续地读取来自加速度计的加速度数据，等待单元被定位在适当的位置或定向。此外，与设备关联的应用程序软件可以通知设备的用户(例如弹出消息或是声音警告等)设备需要处于某些位置以完成用户的请求。一旦设备处于适当的定向，所请求的操作可以被执行(例如弹出媒体)。

同样地，根据另一实施例，如果用户不重新定向单元，则加速度计可以被用于放弃操作。如果设备在一段时间内不被重新定位到适当的或预定的位置，则设备可以取消所请求的操作或者向用户提供进一步的指令。根据另一实施例，加速度计可以被用于检测定向，或者为了使能和/或禁用安装在设备侧边或底部的输入设备。例如，在设备的底部可以存在弹出按钮，这个按钮当设备竖立时被禁用。这样，用户将设备放置在桌上或用户的膝盖上时，该按钮不被启动。

附图24是阐述根据本发明另一实施例的启动或去激励设备的示例性进程的流程图。示例性进程可以由处理逻辑执行，处理逻辑可以

包括硬件(电路、专用逻辑等)、软件(诸如运行在专用机器上的软件)或二者的组合。参考附图24,在方框2401,用于将便携式设备的组件从第一运行状态变换到第二运行状态的请求被接收(例如,弹出便携式存储设备)。在方框2402,利用安装到便携式设备的加速度计,确定便携式设备是否根据预定的适合于第二运行状态的定向被定位。

在方框2403,如果基于加速度计所提供的加速度信息确定便携式设备按照预定的定向或位置被定位,则便携式设备的组件随后被从第一运行状态变换到第二运行状态(例如,打开CD ROM的托盘)。然而,如果便携式设备不在预定的位置或定向,则在方框2404,所请求的变换被拒绝或挂起,从而使便携式设备的组件依然停留在第一运行状态或是其他状态(例如第三态:tri-state等)。同时,利用加速度计周期性或连续地监视便携式设备的位置或定向,其中一旦便携式设备的位置或定向被检测为位于适当的位置或定向,则所请求的操作可以被重新开始。如果便携式设备不在适当的位置或定向长达一个预定的时间周期,则所请求的操作可以被放弃。可选地,在方框2405,可以产生通知,以告知便携式设备的用户将便携式设备放到某些位置,以便完成所请求的操作。其他操作也可以被执行。

#### 基于加速度计的其他应用

根据本发明另一实施例,加速度计可以被用于检测和确定携带其中装有加速度计的便携式设备的用户的活动。根据一个实施例,例如,被安装到可以被用户拿着的便携式设备中的加速度计可以检测用户在拿着便携式设备时抖动。在这个实施例中,便携式设备可以是数字多媒体播放器(例如MP3播放器)。安装到便携式设备的加速度计可以检测由用户活动所引起的便携式设备的运动可能是反复性的。

响应于检测,便携式设备的运动的重复率可以被确定,例如,通过连接到加速度计的控制器和/或固件,类似于附图1所示的配置。一旦运动的重复率被确定,应用程序软件(例如Microsoft的Windows媒体播放器或Real Networks的实时播放器(real player)等)可以调整当前正被便携式设备播放的多媒体内容的节奏,使其相对匹配所确



定的运动重复率。因此，例如，可以调整当前被MP3播放器所播放的音乐的速度，以与拿着MP3播放器的用户的抖动率相对匹配。

此外，根据另一实施例，应用程序软件可以进一步选择和播放最适合于所确定的用户活动(例如抖动率)的多媒体内容。在一个实施例中，用户可以通过用户接口配置多媒体播放器，从而在某些环境下可以选择和播放某些类型的多媒体内容。因此，当加速度计和相关的控制器和/或固件检测到用户正在执行某些类型的活动时，相关类型的多媒体内容可以被相应地选择和播放。

附图16是阐述根据本发明一个实施例的用于基于加速度计播放多媒体内容的示例性进程的流程图。示例性进程1600可以由处理逻辑执行，处理逻辑可以包括硬件(电路、专用逻辑等)、软件(诸如运行在专用机器上的软件)或二者的组合。参照附图16，在方框1601，利用安装到便携式设备的加速度计检测便携式设备的运动，其中便携式设备的运动每隔一定时间周期就重复。在方框1602，基于由加速度计所提供的运动数据确定便携式设备的运动重复率。在方框1603，可选地，具有和所确定的重复率相对匹配的节奏的数字多媒体内容被选择和播放。在方框1604，当前播放的多媒体内容的节奏被调整以相对匹配所确定的运动重复率。其他操作也可以被执行。

根据本发明的另一实施例，加速度计可以被用于检测便携式设备是否正在移动(例如被用户携带着)以及便携式设备是否应该被置于适当的运行状态。根据一个实施例，当便携式设备处于非活动状态并且通过安装到便携式设备的加速度计检测到便携式设备正在移动时，便携式设备可以被置于相对较低功耗模式，诸如例如休眠模式。例如，顶盖合上的膝上型计算机可以被认为处于非活动状态。由于膝上型计算机电脑的顶盖是合上的，所以用户不能主动操作膝上型计算机。可选地，当膝上型计算机的桌面被锁定时，它被认为处于非活动状态。其他情况也可以被认为是非活动状态，这可以是用户可配置的。因此，膝上型计算机可以被置于低功耗模式。此外，如果膝上型计算机被确定为是移动的(通过加速度计)，则向永久存储设备(例如硬盘驱动

器)写任何数据可能是不安全的。因此,永久存储设备的读/写头可以被停放到安全位置,而不向永久存储设备写数据。

根据一个实施例,如果基于由安装到便携式设备的加速度计所提供的数据确定便携式设备处于非活动状态,并且便携式设备不是正在移动,则可以使便携式设备进入休眠模式,其中系统存储器的内容可以被交换到永久存储设备(例如硬盘驱动器)中。由于便携式设备没有移动,因此向永久存储设备写数据是相对安全的。

附图17是阐述根据本发明一个实施例的用于便携式设备的电源管理的示例性进程的流程图。示例性进程1700可以由处理逻辑执行,处理逻辑可以包括硬件(电路、专用逻辑等)、软件(诸如运行在专用机器上的软件)或二者的组合。参照附图17,在方框1701,确定便携式设备是否处于非活动状态。例如,当便携式设备的顶盖合上或它的桌面被锁定时,便携式设备被认为处于非活动状态。在方框1702,利用安装到便携式设备的加速度计检测便携式设备以确定便携式设备是否正在移动(例如便携式设备是否被用户携带)。在方框1703,如果便携式设备正在移动,则使便携式设备进入相对较低功耗模式,并且不把系统存储器的内容交换到永久存储设备中。否则,在方框1704,如果便携式设备正在移动,通过将系统存储器的内容交换到永久存储设备,使便携式设备进入睡眠模式。其他操作也可以被执行。

根据本发明的另一实施例,为了确定是否正确输入密码,加速度计可以被用于检测便携式设备是否按照特定方向运动。在一个实施例中,当便携式设备的用户被提示输入密码时,作为输入密码的一部分,用户必须朝一个或几个方向移动便携式设备。安装到便携式设备的加速度计可以检测这样的运动,并且运动方向可以被确定,例如,通过相关的控制器和/或固件。如果运动方向相对匹配预定方向,则认为密码已经被正确“输入”了。

根据一个可选实施例,用户可能被要求在便携式设备上输入密码的第一部分。然后,用户被要求根据特定方向移动便携式设备。此后,用户被要求输入密码的第二部分(例如密码的其余部分)。因此,输

入的密码以及便携式设备的特定运动的组合构造完整的密码。也可以存在其他配置。

附图18是阐述根据本发明一个实施例的用于处理密码的示例性进程的流程图。示例性进程1800可以由处理逻辑执行，处理逻辑可以包括硬件（电路、专用逻辑等）、软件（诸如运行在专用机器上的软件）或二者的组合。参照附图18，在方框1801，用户被要求在便携式设备上输入密码。在方框1802中，利用安装到便携式设备的加速度计检测便携式设备是否被移动。在方框1803，基于由加速度计所提供的运动数据确定运动方向。在方框1804，确定便携式设备是否已经按照预定方向被移动。在方框1805，基于运动方向与预定方向是否相对匹配，发布提示以指明密码是否被正确“输入”。其他操作也可以被执行。

根据本发明的另一实施例，加速度计可以被用于检测和记录便携式设备的一系列运动，其中所记录的运动数据随后（例如离线）可以被用于重现运动历史。在一个实施例中，当便携式设备在一段时间内被移动时，安装到便携式设备的加速度计检测和记录这样的运动。在运动过程中，由加速度计所记录的运动数据可以被存储在便携式设备的存储设备（例如硬盘驱动器）中。可选地，运动数据可以在运动期间通过网络（例如无线网络）被发送到远程设备。随后，在运动之后，可以利用由加速度计所提供的运动数据，重现表示这段时间上的运动的轨迹。

这在用户希望以后重新绘制过山车运行轨迹时是非常有用的。例如，用户可以携带安装有加速度计的便携式设备并坐上过山车。在乘车期间，加速度计可以检测运动数据并将它们存储在存储设备中，或是可选地，加速度计把运动数据通过网络传送到远程设备。在乘坐之后，运动数据可以被用于重现过山车运行的轨迹。过山车只是被用作一个示例，上述技术可以被应用于其他场合。例如，为了绘制其他地区的地图，携带加速度计的用户可以开车去那些地方进行测量，其中加速度计被安装到便携式设备或被安装到汽车上。然后，可以利用在开车过程中由加速度计所收集的运动数据绘制地图。

附图19是阐述根据本发明一个实施例的用于利用加速度计重现运动轨迹的示例性进程的流程图。示例性进程1900可以由处理逻辑执行，处理逻辑可以包括硬件（电路、专用逻辑等）、软件（诸如运行在专用机器上的软件）、或二者的组合。参照附图19，在方框1901，利用安装到便携式设备的加速度计检测便携式设备的一系列运动。在上述示例中，汽车可以被认为是便携式设备。在方框1902中，这一系列运动中的每一个运动的运动方向以及每个运动之间的时间被确定。在方框1903，信息可以被存储在便携式设备的存储器中。可选地，信息也可以通过网络被动态地传输到远程设备（例如无线网络）。随后，在方框1904，可以利用所存储的运动数据重现表示运动历史的轨迹。其他操作也可以被执行。

#### 利用加速度计的运动补偿

根据本发明的另一实施例，加速度计可以被用于检测便携式设备的运动，并且可响应于检测应用运动补偿。例如，安装到便携式设备的加速度计可以检测使用便携式设备（例如阅读显示在便携式设备的显示屏上的电子文档）的用户可能正乘坐在颠簸的汽车上。响应于检测，可以对所显示的文档执行运动补偿，使得电子文档可以相对保持在对于用户的眼睛一样的位置。

在一个实施例中，可以通过适当地对从加速度计所接收的信号求积分来计算显示器平面内作为时间的函数的显示器平台的位置。随后，图像在显示屏上被作为时间的函数垂直和水平地变换，以保持图像位置在空间中充分固定，而与显示器平面内显示器的运动无关。可以通过由加速度计所提供的运动数据的相对较高频率分量来表示这样的运动（例如，诸如颠簸之类的突发运动）。为了防止当汽车上山和下山或绕圈时图像离开屏幕，显示器运动的低频率分量-诸如由汽车的前进速度所引起的那些-可以不被补偿。同样，当乘车在颠簸的平台上时，这种技术也可以被应用到通过便携式设备玩的电子游戏中。

附图22是阐述根据本发明一个实施例的用于利用加速度计的运动补偿的示例性进程的流程图。示例性进程可以由处理逻辑执行，处

逻辑可以包括硬件(电路、专用逻辑等)、软件(诸如运行在专用机器上的软件)或是二者的组合。在一个实施例中,示例性进程包括、但不只限于利用安装到便携式设备的加速度计检测便携式设备的运动,基于加速度计所提供的运动数据确定便携式设备的运动方向,以及调整所显示对象在便携式设备的显示屏上的位置,以补偿便携式设备的运动,使得调整后的显示对象相对于便携式设备的用户保持相对同样的位置。

参照附图22,在方框2201,利用安装到便携式设备的加速度计检测便携式设备的运动。在一个实施例中,根据作为加速度计所提供的运动数据的一部分的位置,作为时间的函数检测运动。运动数据可以包括表示突发运动的相对高频分量以及表示低速运动的相对低频分量。在方框2202,在显示器平面中提取运动数据中相对高频分量(例如降低阅读所显示文档或观察静止图像的人视觉灵敏度的运动分量)。在方框2203,所显示文档或图像的位置可以基于所提取的高频分量而被移位,以补偿便携式设备的高频运动(例如突发运动)。因此,对于用户来说,所显示的文档或图像可以被相对稳定地保持在空间中。其他操作也可以被执行。

#### 利用加速度计的冲击检测及应用

根据本发明的另一实施例,加速度计可以用于检测便携式设备的用户所施加的冲击。在一个实施例中,该技术允许用户在提供受控动量传递的物理意义上施加冲击,作为应用程序的便携式或固定式设备的输入。例如,这些冲击可以出现以与冲击的幅值和方向成比例地启动或偏转显示屏上对象的运动。这将支持游戏(例如台球或其他球类游戏)以及教育/工程探测(例如结构对敲击的反应)。

例如,用户可以通过轻敲便携式设备的侧边,在便携式设备的显示屏上“晃动”指针。安装到便携式设备的加速度计可以检测这样的引起便携式设备运动的力。力的方向和幅值可以基于加速度计所提供的运动数据确定。当为应用使能这项功能时,在设备侧面的轻拍将使鼠标以类似于轻拍小物体并使其滑过平面上一段距离的方式移动。同样,

这种技术可以被应用在多种其它应用中，诸如例如视频游戏（例如高尔夫球、保龄球、网球等）。

附图23是阐述根据本发明一个实施例的用于冲击检测的示例性进程的流程图。示例性进程可以由处理逻辑执行，处理逻辑可以包括硬件（电路、专用逻辑等）、软件（诸如运行在专用机器上的软件）或二者的组合。在一个实施例中，示例性进程包括、但不只限于响应于施加到便携式设备的力，利用安装到便携式设备的加速度计检测便携式设备的运动，基于加速度计所提供的加速度信息计算力的幅值和方向，以及将所显示对象在便携式设备的显示屏上从第一位置移动到第二位置，其中基于所计算的力的幅值和方向确定第一位置和第二位置之间的方向和距离。

参照附图23，在方框2301，响应于便携式设备上的轻拍（例如用户用手轻拍便携式设备的边缘），安装到便携式设备的加速度计检测三轴加速度作为时间的函数。在方框2302中，通过执行三轴加速度的分量的时间积分，与传递到设备的冲击的幅值成比例地计算值。在一个实施例中，可以基于例如通过加速度的三个分量（例如X、Y和Z轴加速度信息）的矢量和所确定的所得到的加速度矢量的绝对值的积分确定该值。

在方框2303，确定由于轻拍便携式设备所导致的传递到便携式设备的冲击的方向。在一个实施例中，基于加速度计所提供的运动数据，由连接到加速度计的微控制器和/或固件计算方向。响应于所确定的冲击方向和幅值，应用程序软件使所显示的对象相对相关于所确定的冲击的方向和距离地以某个方向移动一定距离。所显示的对象可以是指针。可选地，所显示的对象可以是在台球或弹球中的球、保龄球游戏中的保龄球、网球中的球拍或球板、观测形变和/或动力学运动的结构等。上述技术也可以被应用到其它类似应用类型，这对于本领域技术人员来说是显而易见。

#### 带加速度计的示例性便携式设备

附图20是阐述根据本发明一个实施例的具有加速度计的示例性

便携式设备的框图。例如，示例性系统2000可以至少表示附图1所示的示例性系统100或者附图21的示例性系统2100的一部分（例如子系统）。参照附图20，示例性系统2000包括一个或多个加速度计2001、一个或多个微控制器2002、主芯片组2003以及一个或多个外围设备2006，其中主芯片组2003可以被连接到视频适配器2004和音频设备2005。

在一个实施例中，加速度计2001是可以提供X、Y和Z轴上加速度数据的三轴加速度计。加速度计是被封装在芯片组件中的机电式微型机械。它提供三路模拟输出（例如X、Y和Z轴），这些模拟输出的值与沿三维空间中的相应轴所测量的加速度直接成比例。在一个实施例中，加速度计2001可以是Kionix公司的KGF01加速度计或是模拟器件公司的ADXL311。

微控制器2002负责监视加速度计2001的模拟输出，并通过芯片组2003与主机通信。在一个实施例中，通过I2C总线2007以及中断线2008把微控制器2002连接到主芯片组2003。可选地，微控制器2002可以与主芯片组2003集成。在一个实施例中，微控制器2002可以是Microchip（微芯）公司的PCI 16F818微控制器。

根据一个实施例，当加速度计2001检测到便携式设备正在移动时，微控制器2002从加速度计2001接收三轴加速度信息，并通过中断线通知主机。作为响应，运动数据可以通过I2C总线2007被从微控制器2002中读出。在一个实施例中，微控制器2002可以基于从加速度计2001所接收的三轴加速度信息确定运动方向。可选地，主芯片组可以执行这样的操作。在一个实施例中，所有这三个轴的所得到的加速度矢量的幅值可以根据下列公式确定：

$$\text{Mag}(\text{Acceleration}_{\text{resultant}}) = \text{Sqrt}(X_{\text{accel}}^2 + Y_{\text{accel}}^2 + Z_{\text{accel}}^2)$$

响应于确定的加速度矢量的幅值，在示例性系统2000中执行的一个或多个软件成分（例如应用程序软件、固件以及操作系统等）可以执行特定操作，例如本申请中上述的那些操作。例如，所显示的图像的定向可以被视频适配器调整，以及声音效果可以通过音频设备

2005被调整等。此外，一个或多个外围设备2006-诸如例如硬盘驱动器-可以被相应地配置。其它配置也可以存在。

#### 示例性数据处理系统

附图21是可以和本发明的一个实施例一起使用的数字处理系统的方框图。例如，附图21所示的系统2100可以被用作附图1和20所示的示例性系统。

注意，虽然附图21表示了计算机系统的各种组件，但是并不打算表示任何特定架构或组件互联方式，因为这些细节和本发明没有密切关系。也应该理解，网络计算机、手持计算机、蜂窝电话、多媒体播放器以及可以有更少组件或可能可以具有更多组件的其他数据处理系统也可以与本发明一起使用。例如，附图21的计算机系统可以是Apple Macintosh计算机或IBM兼容计算机。

如附图21所示，作为一种数据处理系统的计算机系统2100包括总线2102、易失性RAM 2105以及非易失性存储器2106，其中总线2102连接到微处理器2103和ROM 2107。可以是例如Motorola(摩托罗拉)公司或IBM公司的PowerPC G4或PowerPC G5微处理器的微处理器2103被连接到高速缓存存储器2104，如附图21的实例中所示。总线2102把这些不同部件互相连接到一起，并且也把这些部件2103、2107、2105、2106互相连接到显示控制器和显示设备2108，以及连接到输入/输出(I/O)设备2110，输入输出设备可以是鼠标、键盘、调制解调器、网络接口、打印机以及其他本领域中公知的设备。通常，输入/输出设备2110通过输入/输出控制器2109连接到系统。易失性RAM 2105通常被实现为需要连续供电以刷新或保持存储器中的数据的数据的动态RAM(DRAM)。非易失性存储器2106通常为磁硬盘驱动器、磁光盘驱动器、光盘驱动器、或DVD RAM或者其它类型的甚至在电源被从系统中去除之后还保持数据的存储系统。通常，非易失性存储器也是随机存取存储器，尽管这并不需要。虽然附图21显示了非易失性存储器是直接连接到数据处理系统的其它部件的本地设备，但应该理解，本发明可以利用远离系统的非易失性存储器，诸如



通过网络接口-诸如调制解调器或以太网接口-连接到数据处理系统的网络存储设备。总线2102可以包括通过各种桥、控制器以及/或者适配器彼此连接的一条或多条总线，如本领域中所公知的。在一个实施例中，I/O控制器2109包括用于控制USB(通用串行总线)外围设备的USB适配器。可选地，I/O控制器2109可以包括用于控制FireWire设备的IEEE-1394适配器，IEEE-1394适配器也被称为FireWire适配器。其他部件也可以被包括。

因此，用于利用加速度计操作便携式设备的方法和装置已经被描述。在前述说明书中，已经参照具体示例性实施例描述了本发明。但显然可以对其进行各种修改而不会背离在以下权利要求书中所确定的本发明的主旨和范围。相应地，说明书和附图将被视为图解说明的意思，而不是限制的意思。

100

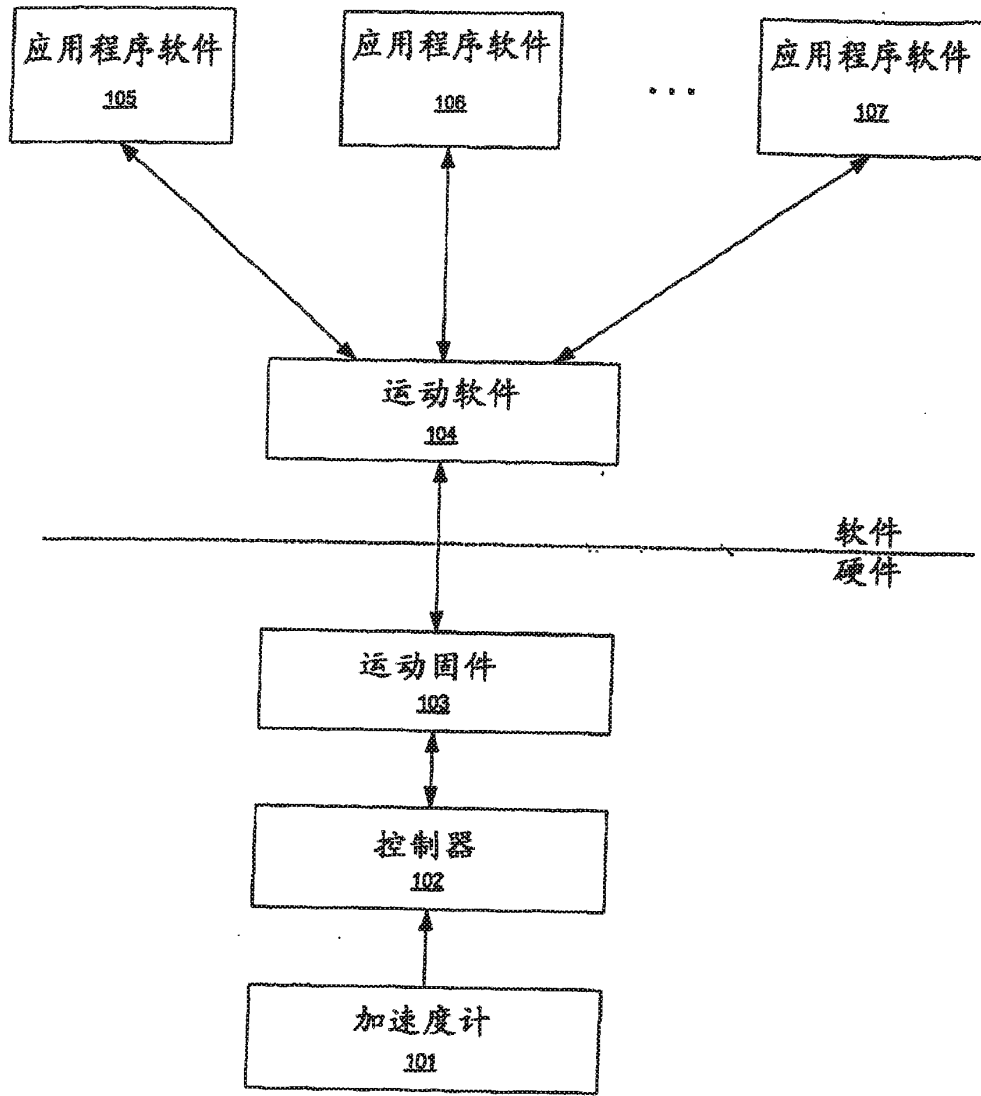


图 1

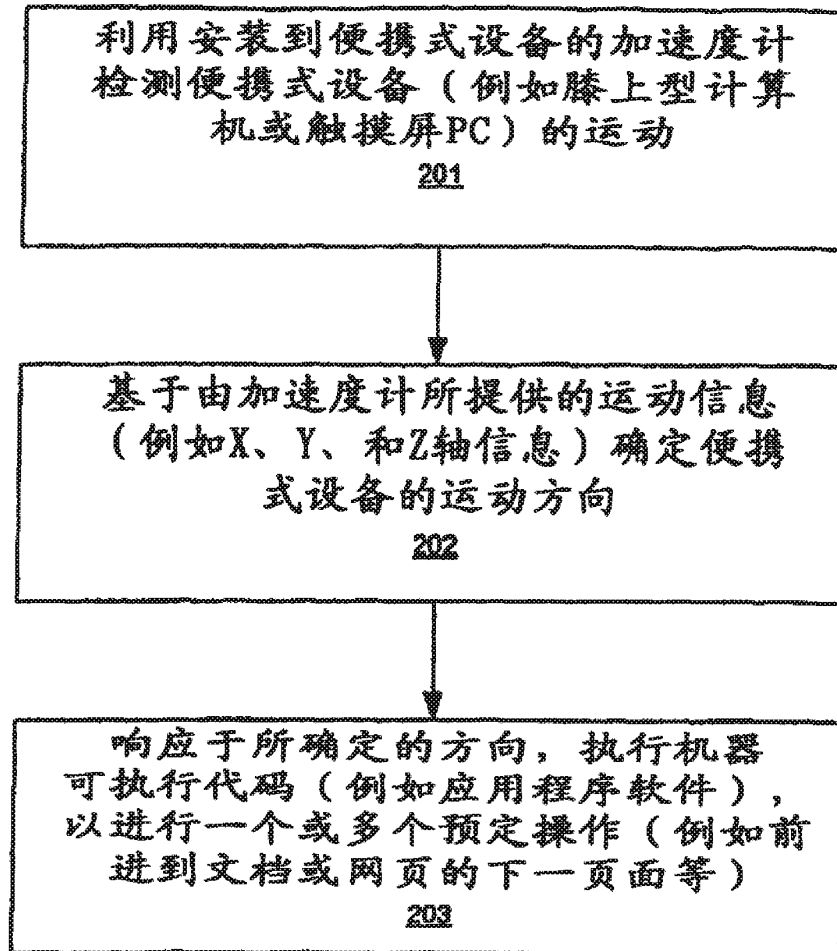
200

图2

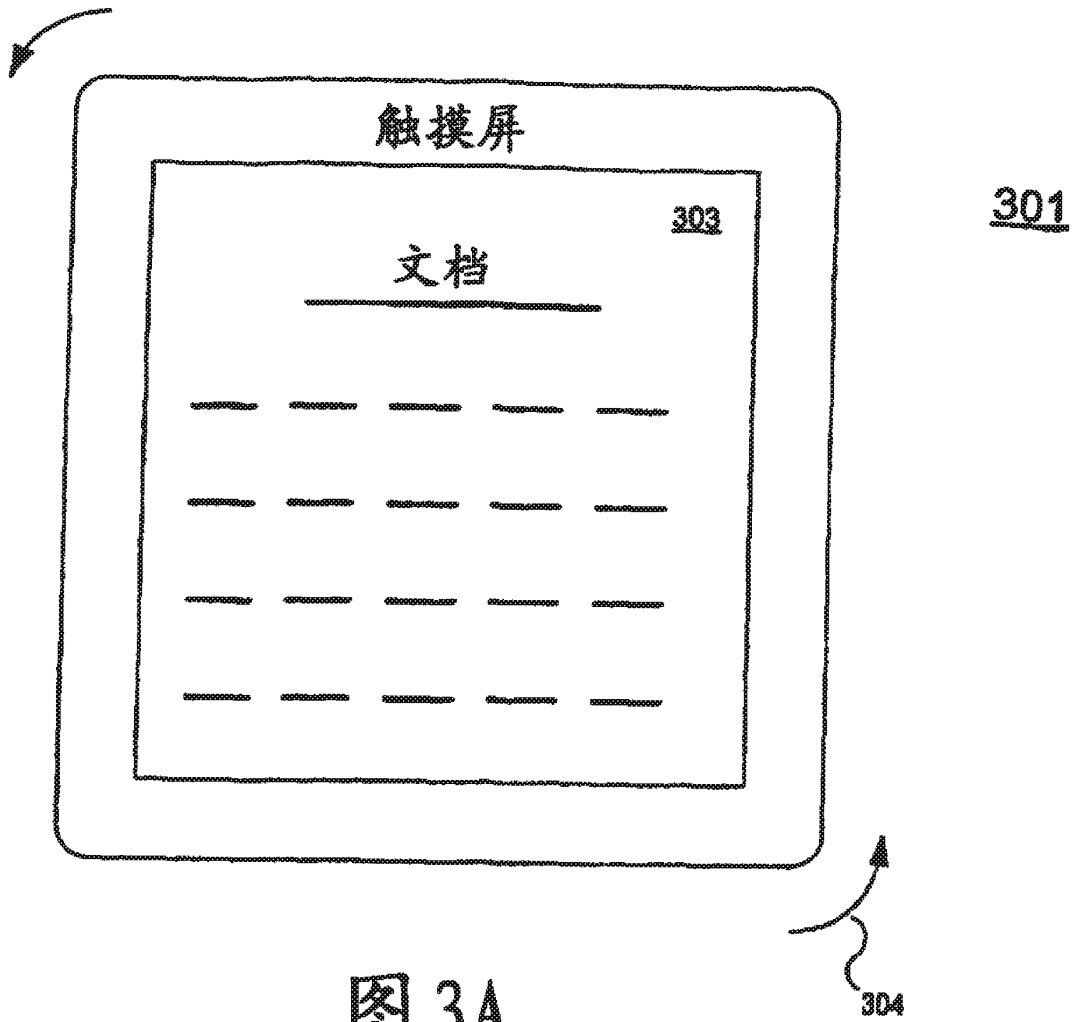


图 3A

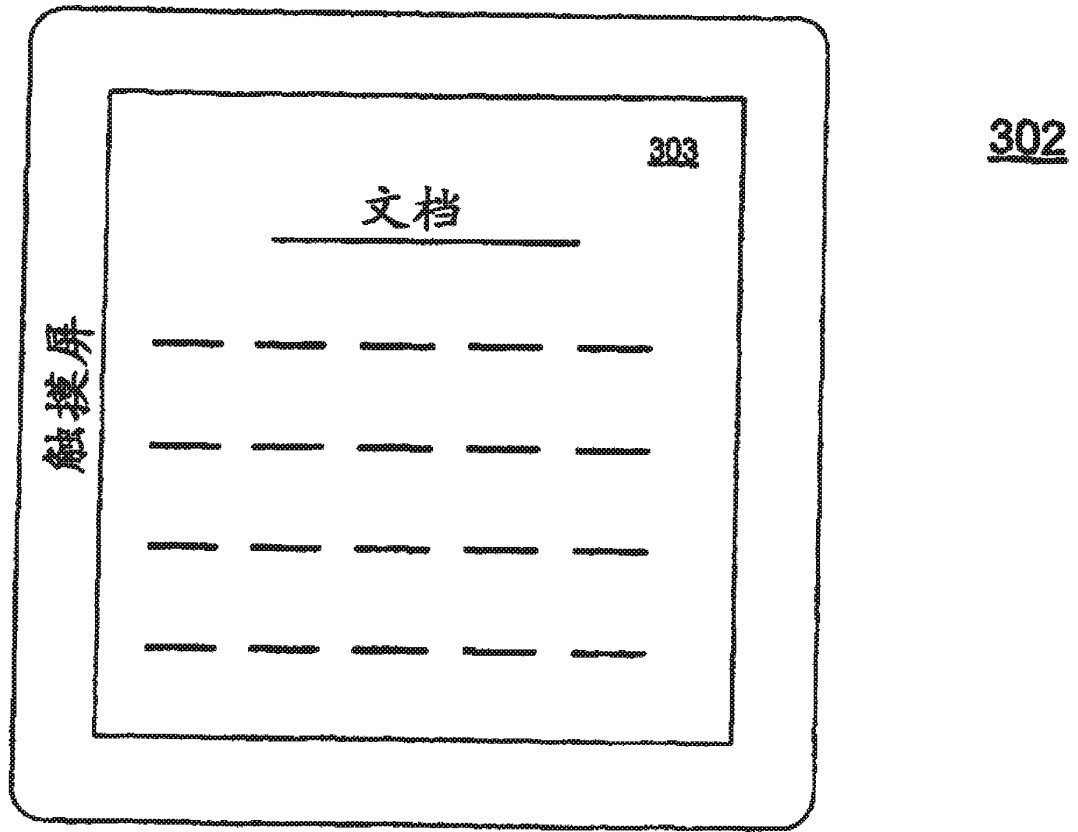


图 3B

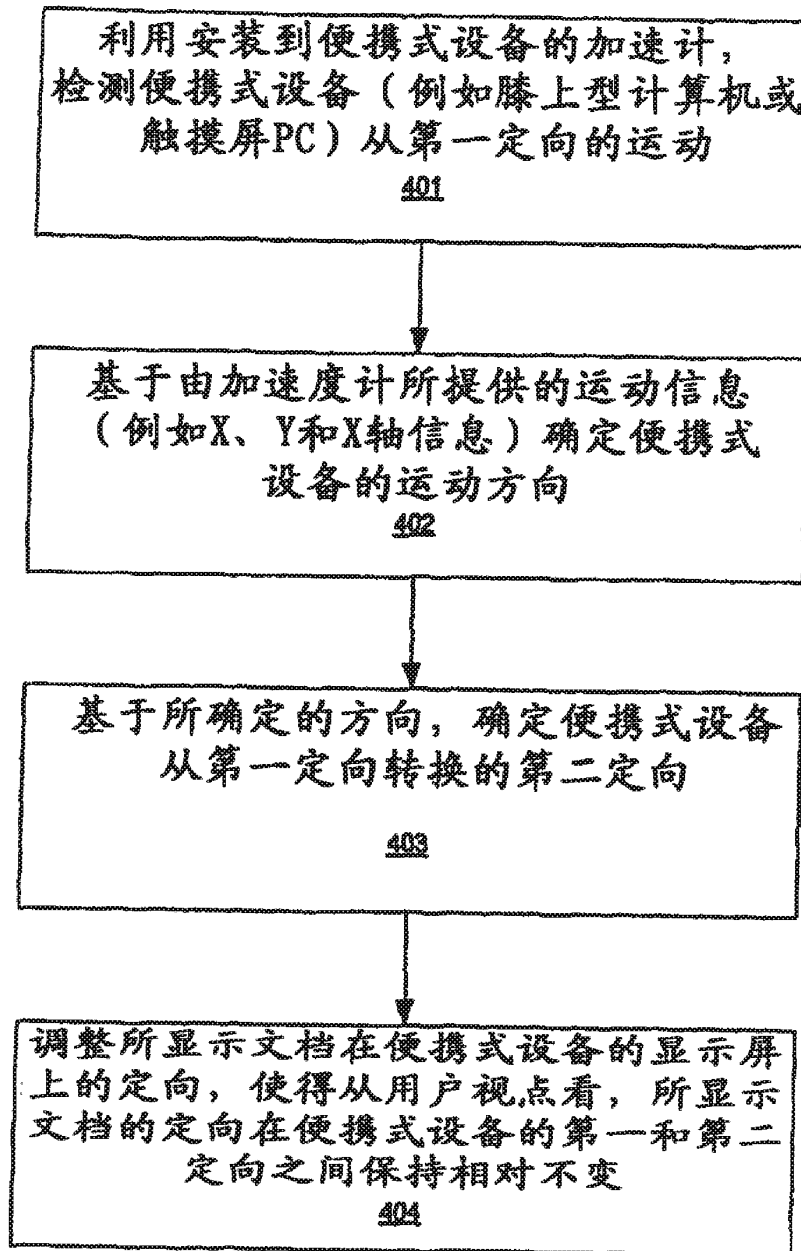
400

图4

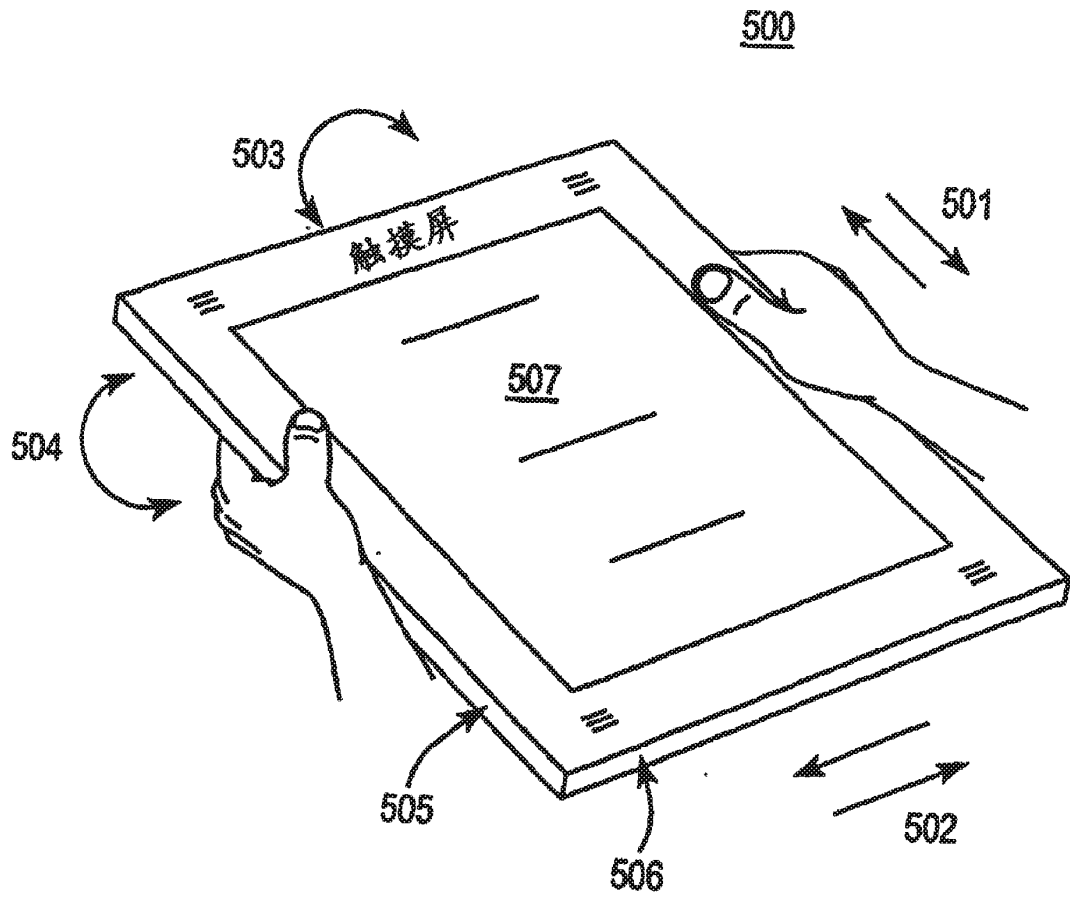


图 5A

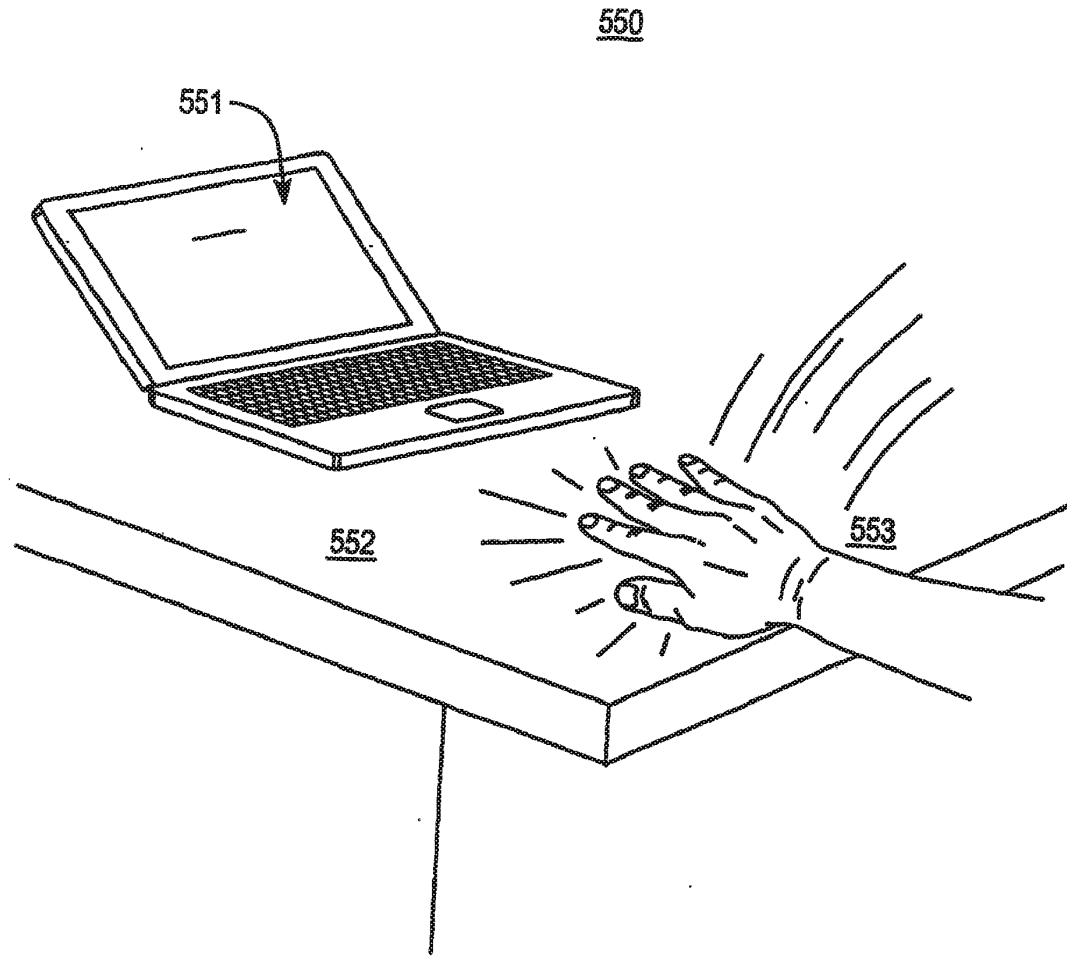


图 5B



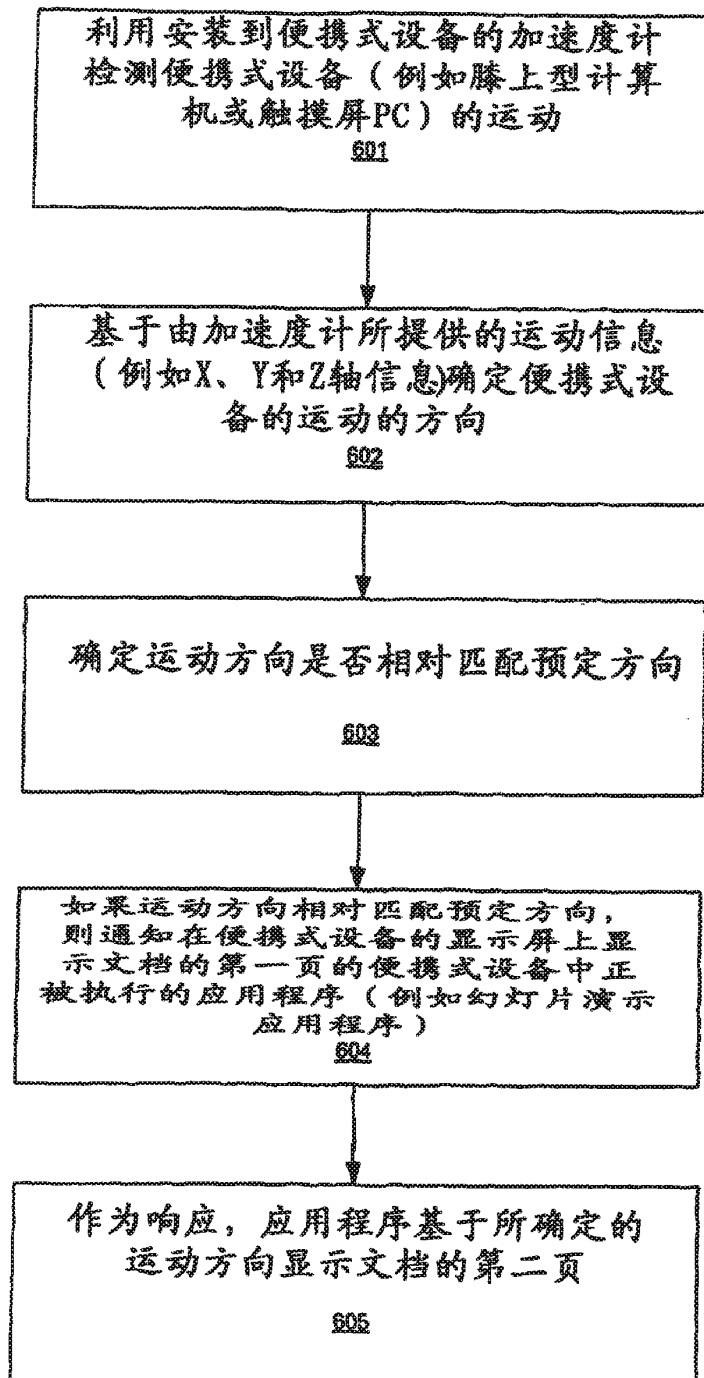
**600**

图6

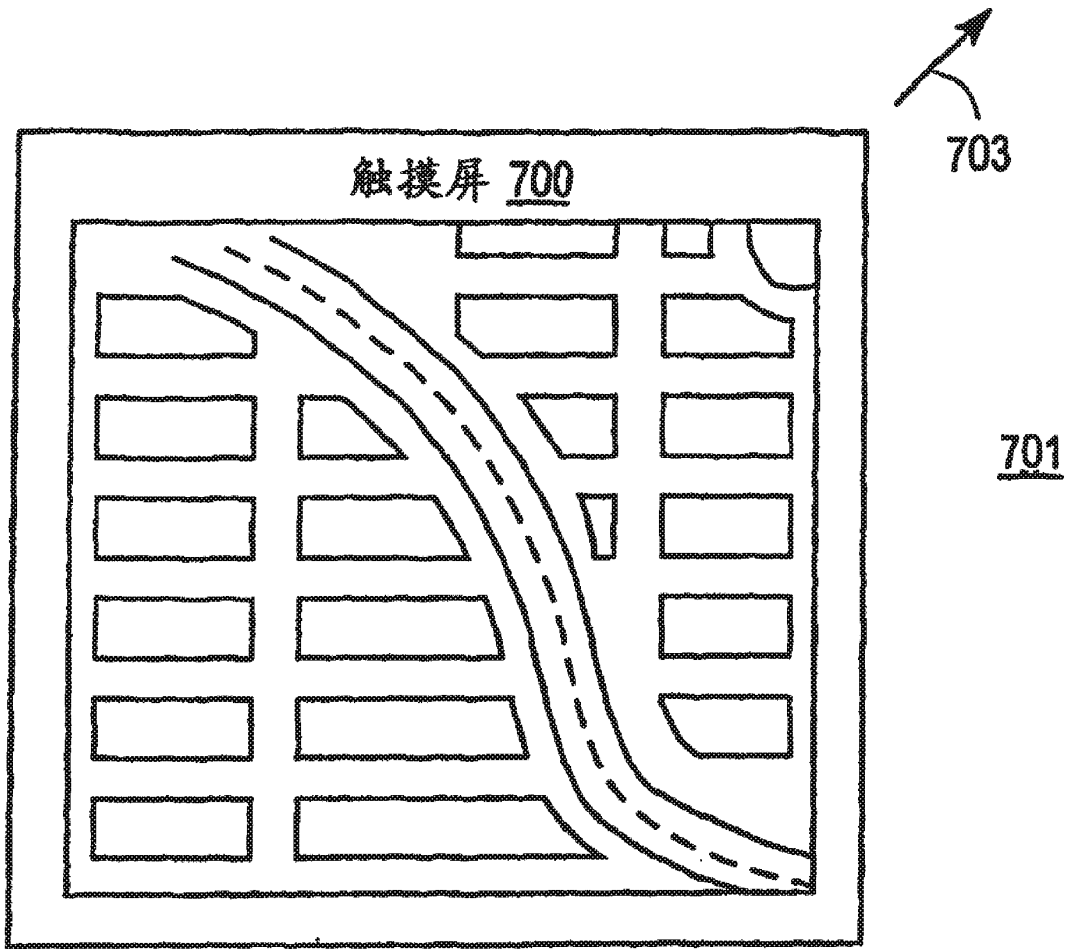


图 7A

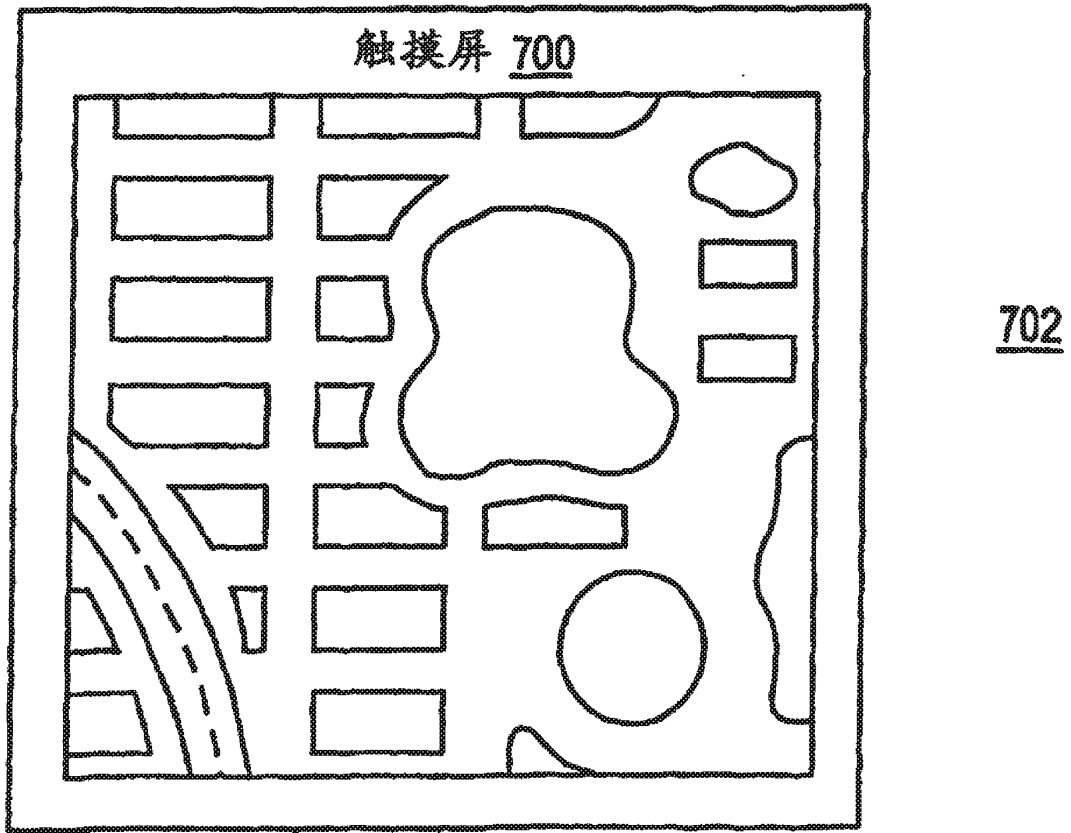


图 7B

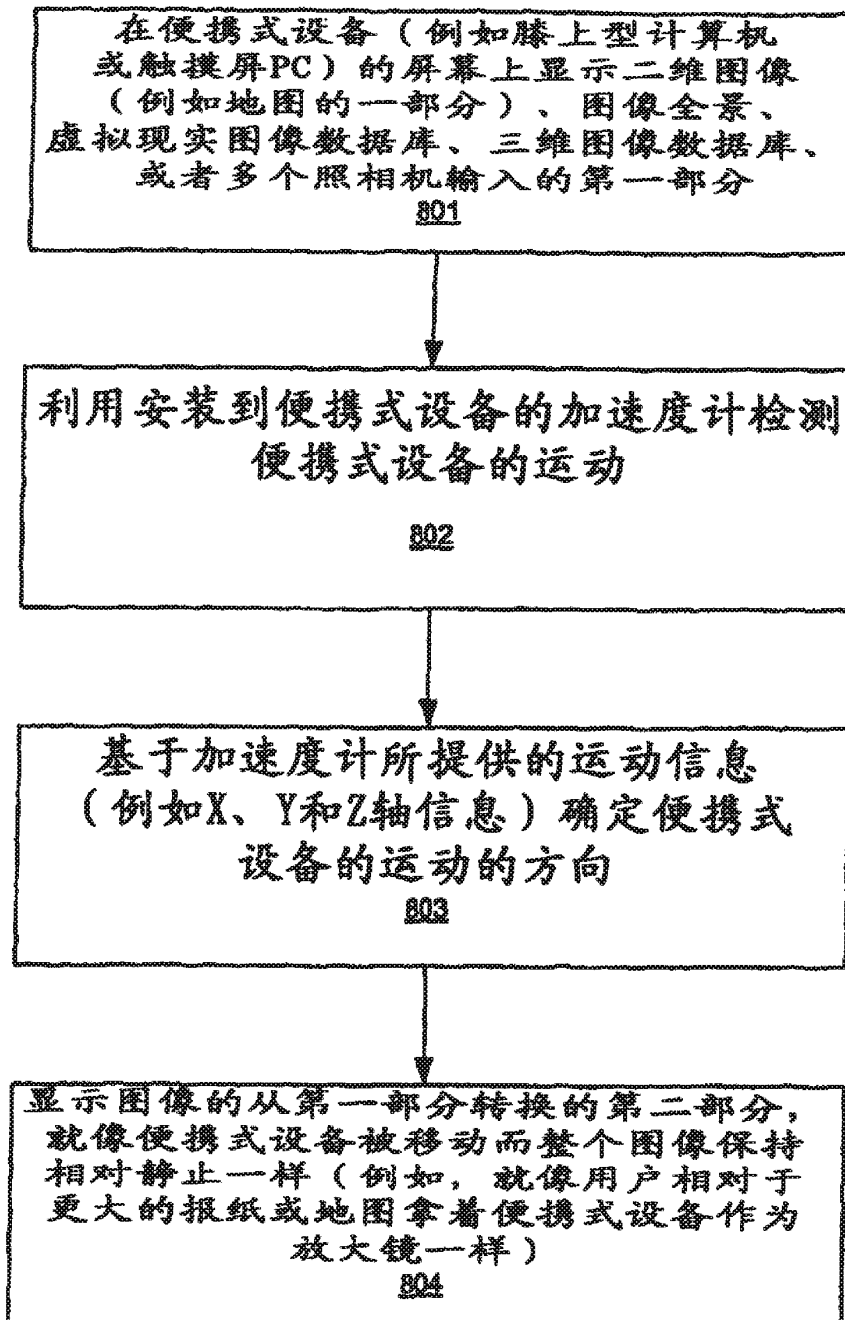


图 8

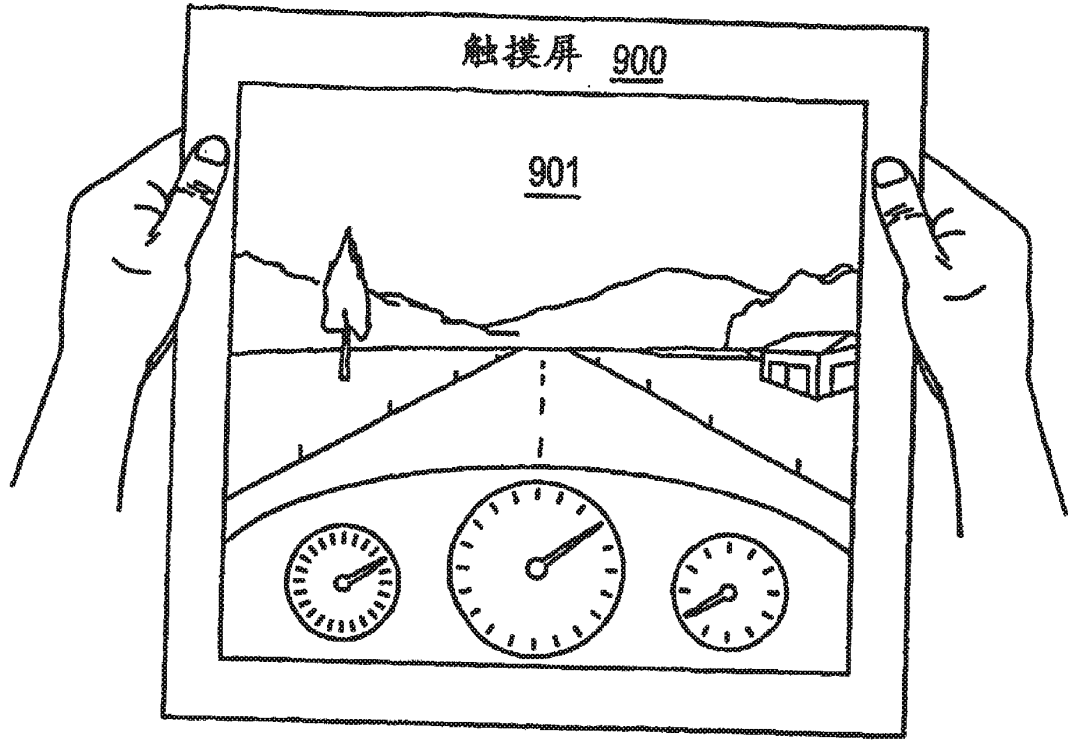


图 9A

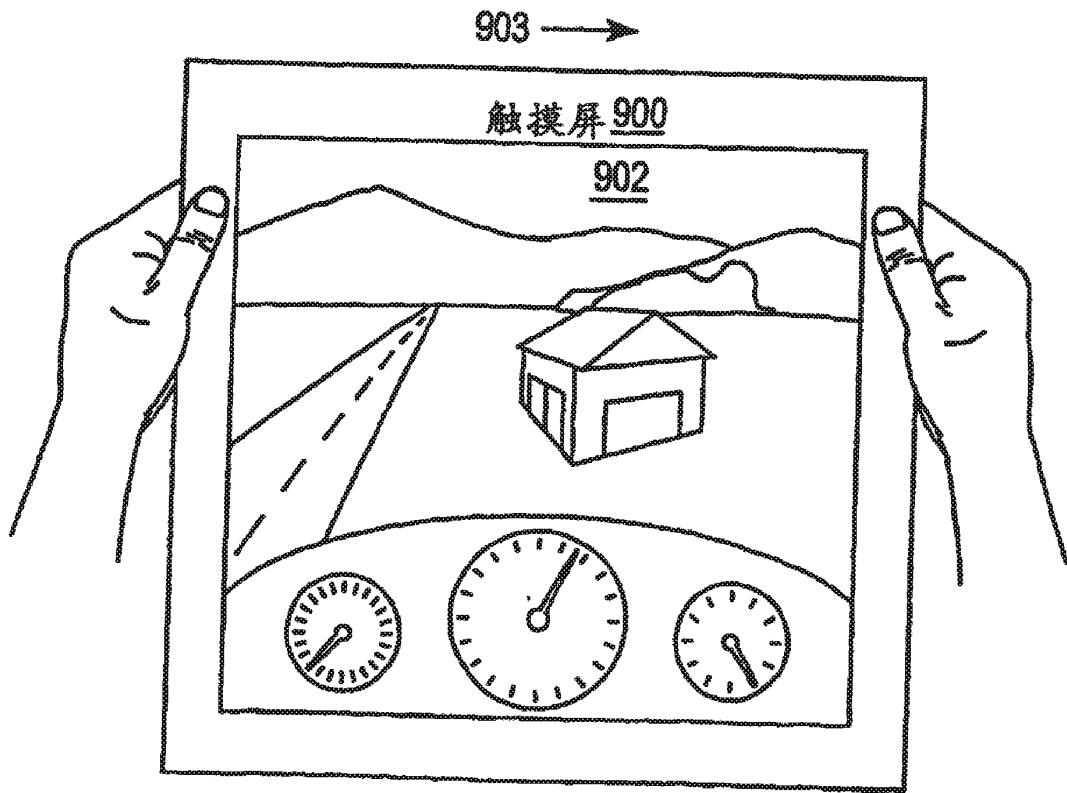


图 9B

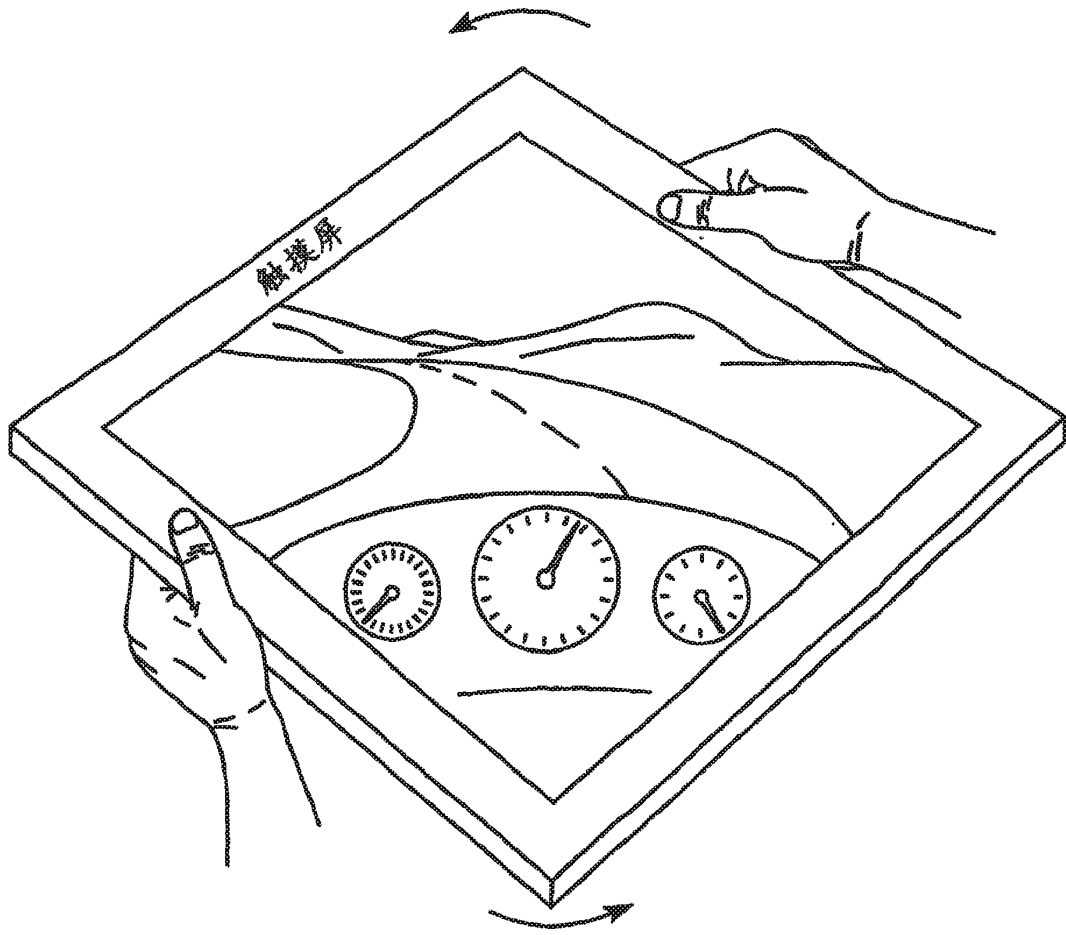


图10A

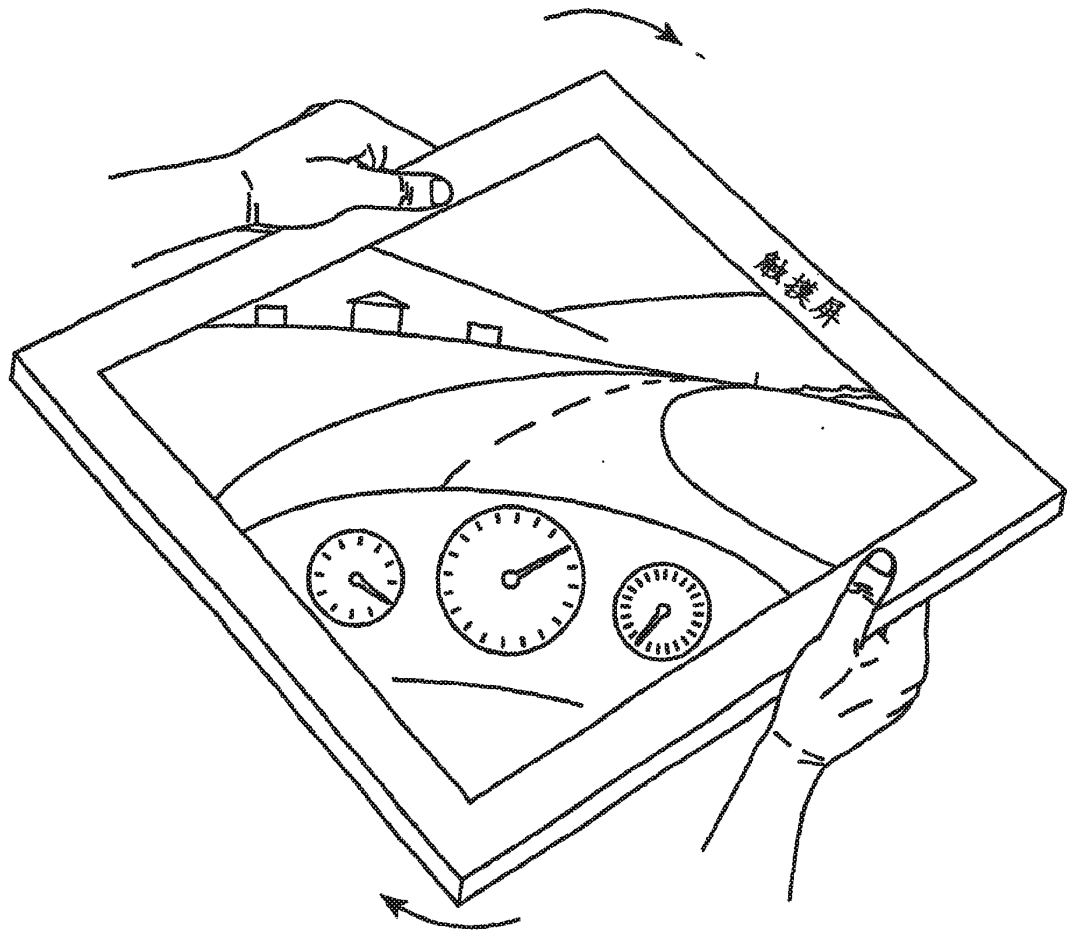


图 10B



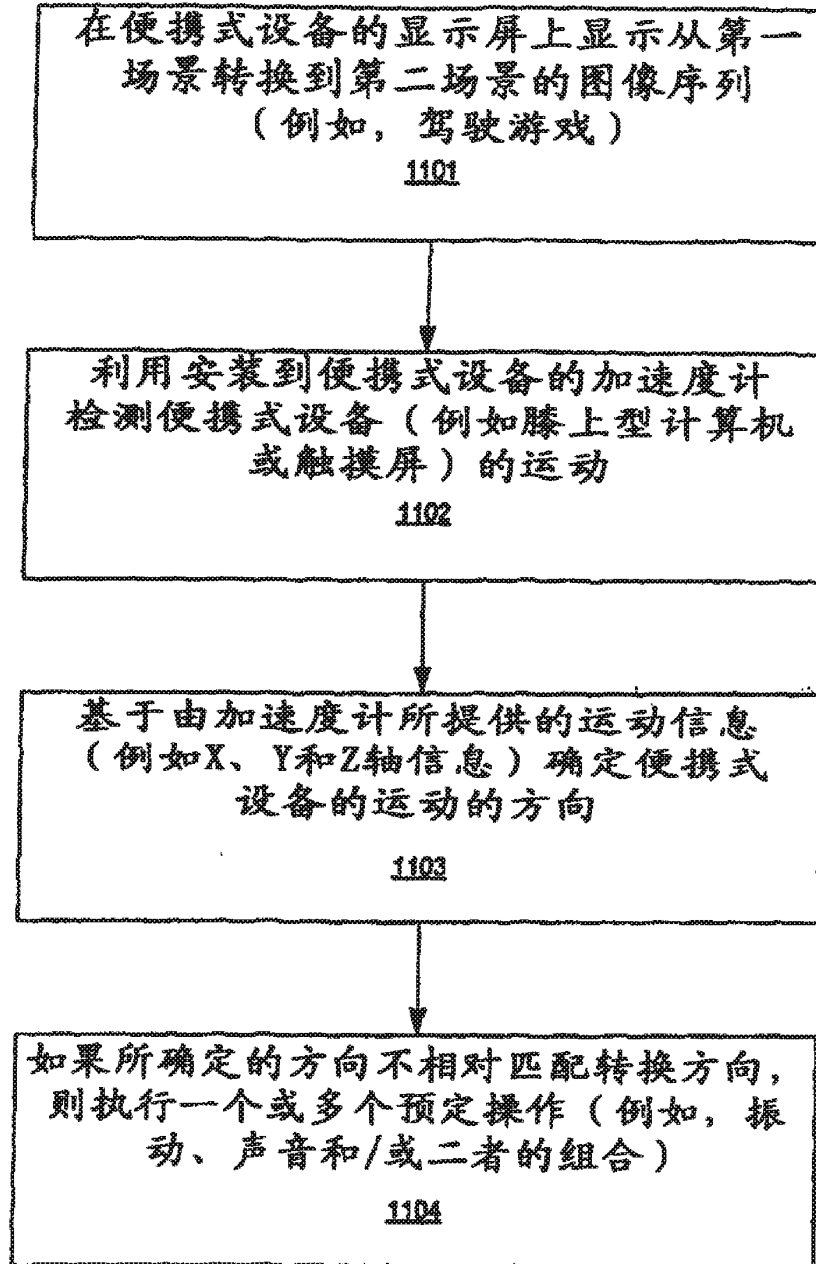
1100

图 11

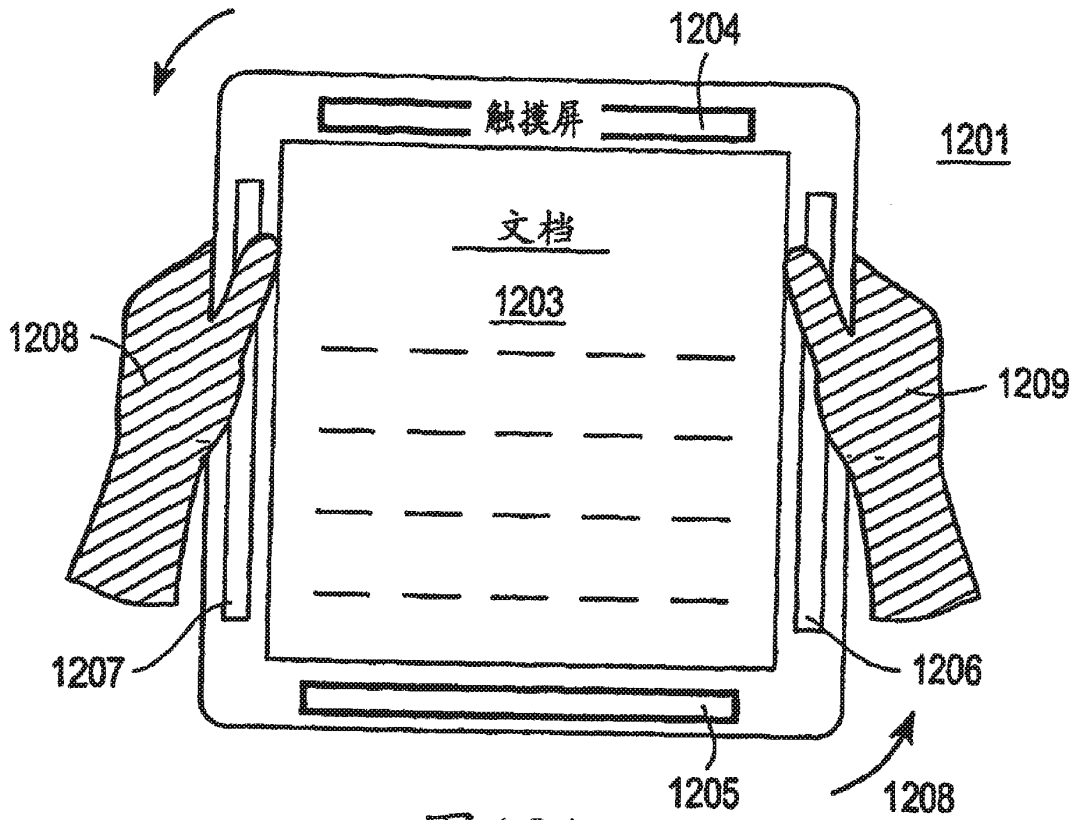


图 12A

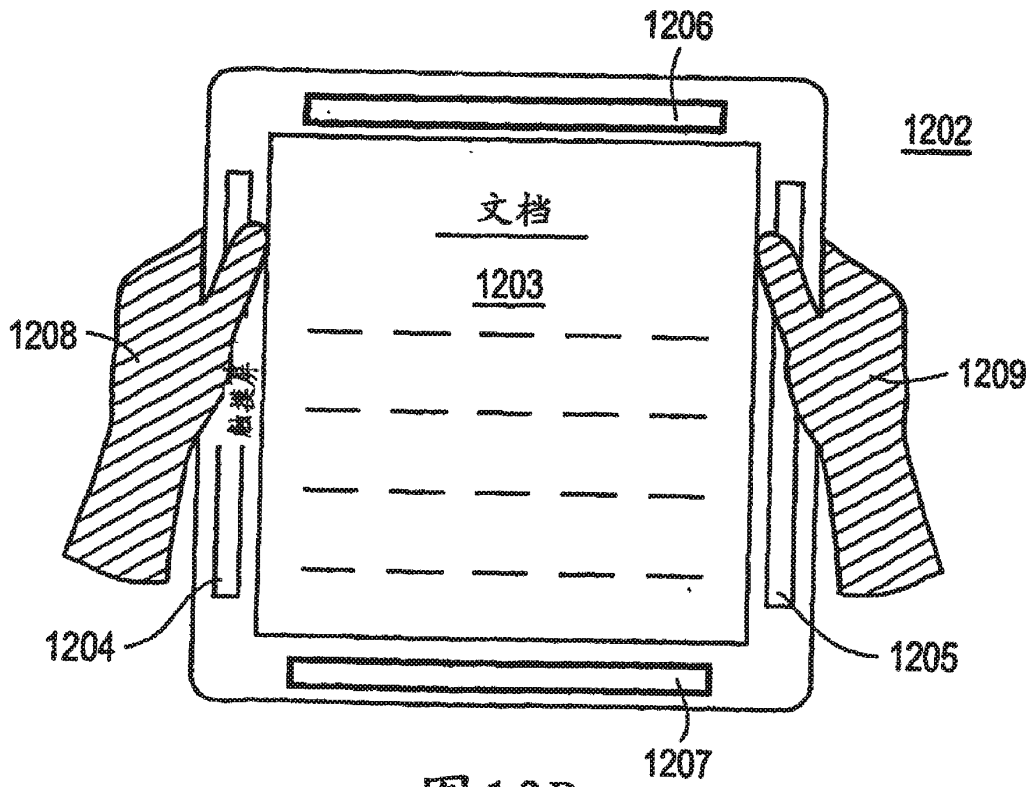


图 12B

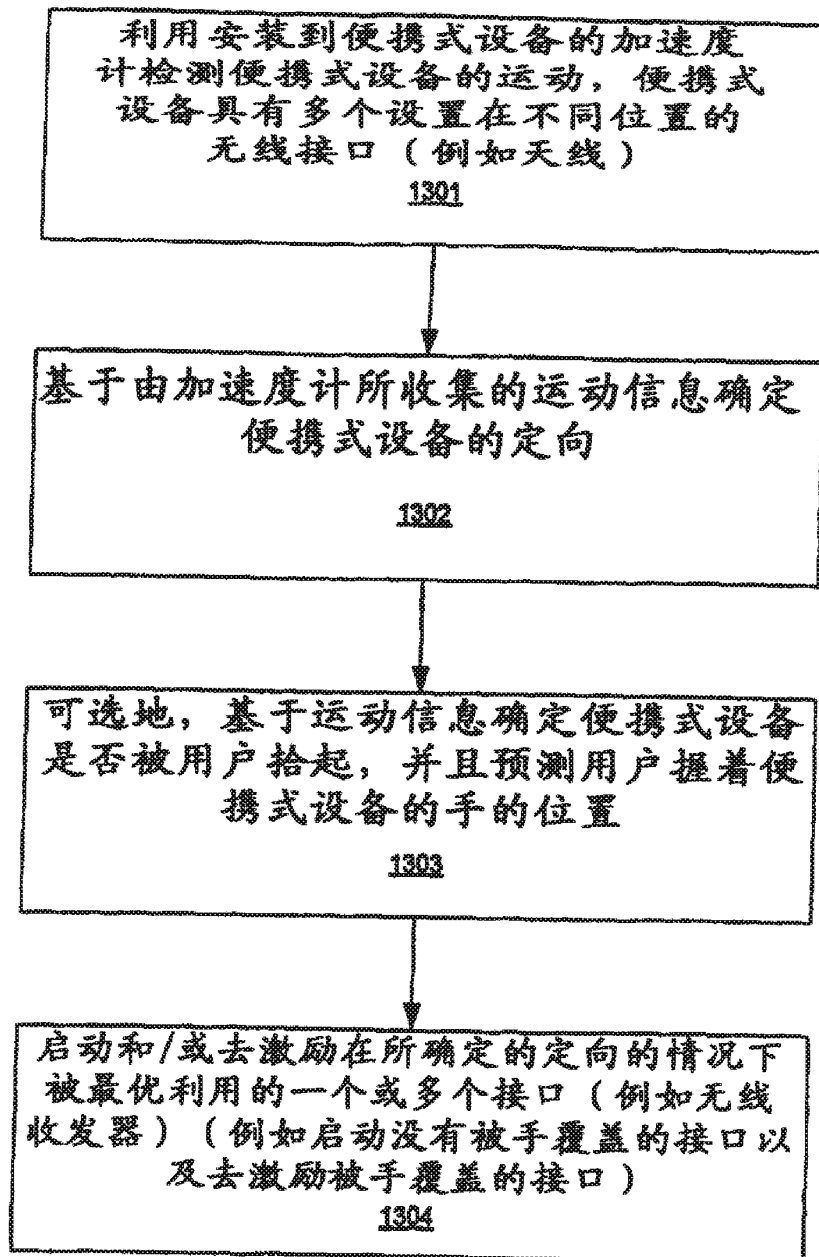
**1300**

图 13

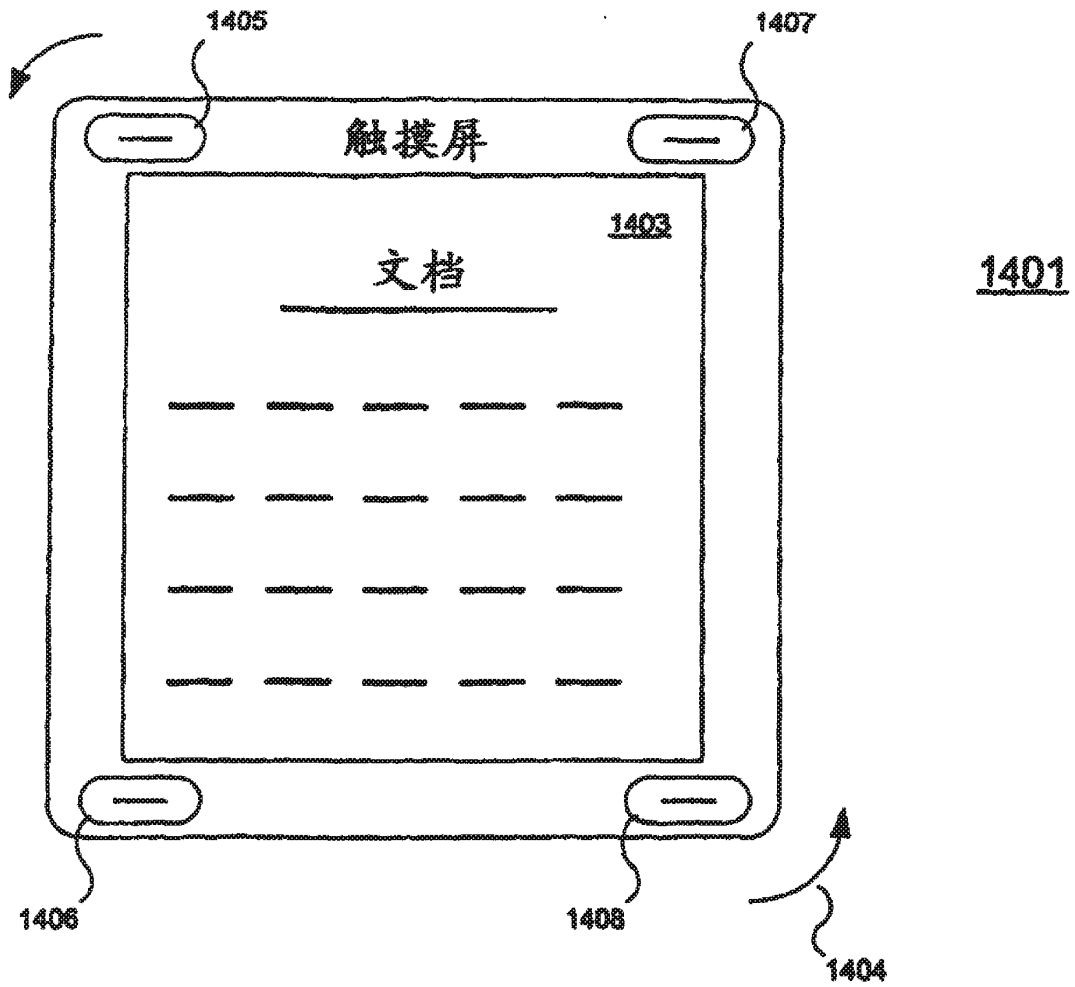


图 14A

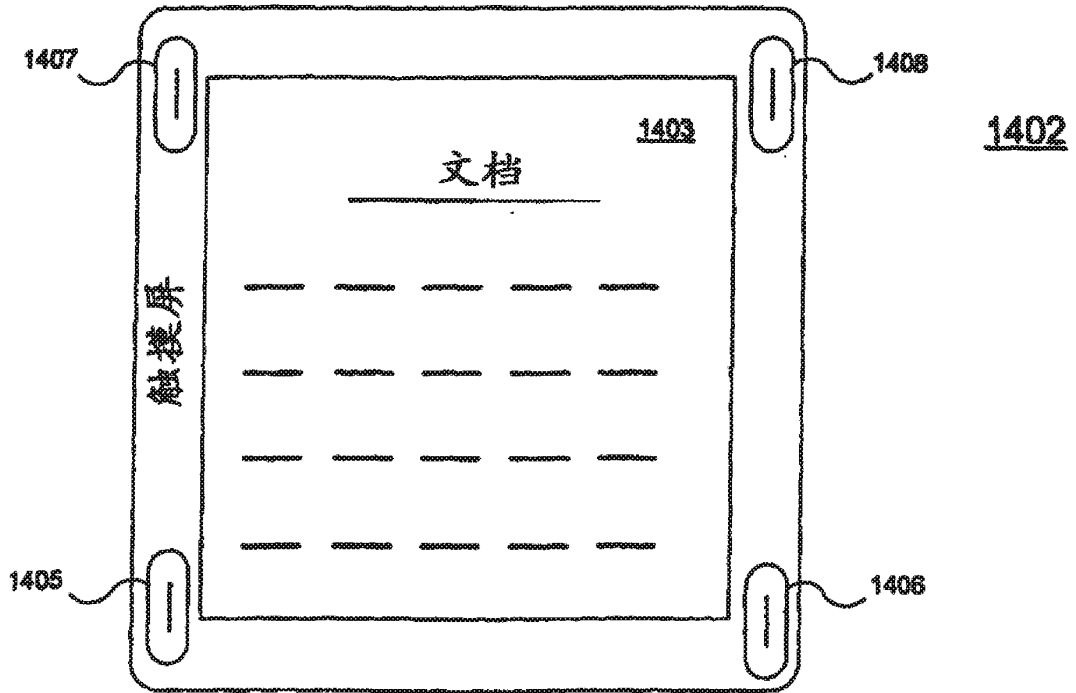


图 14B

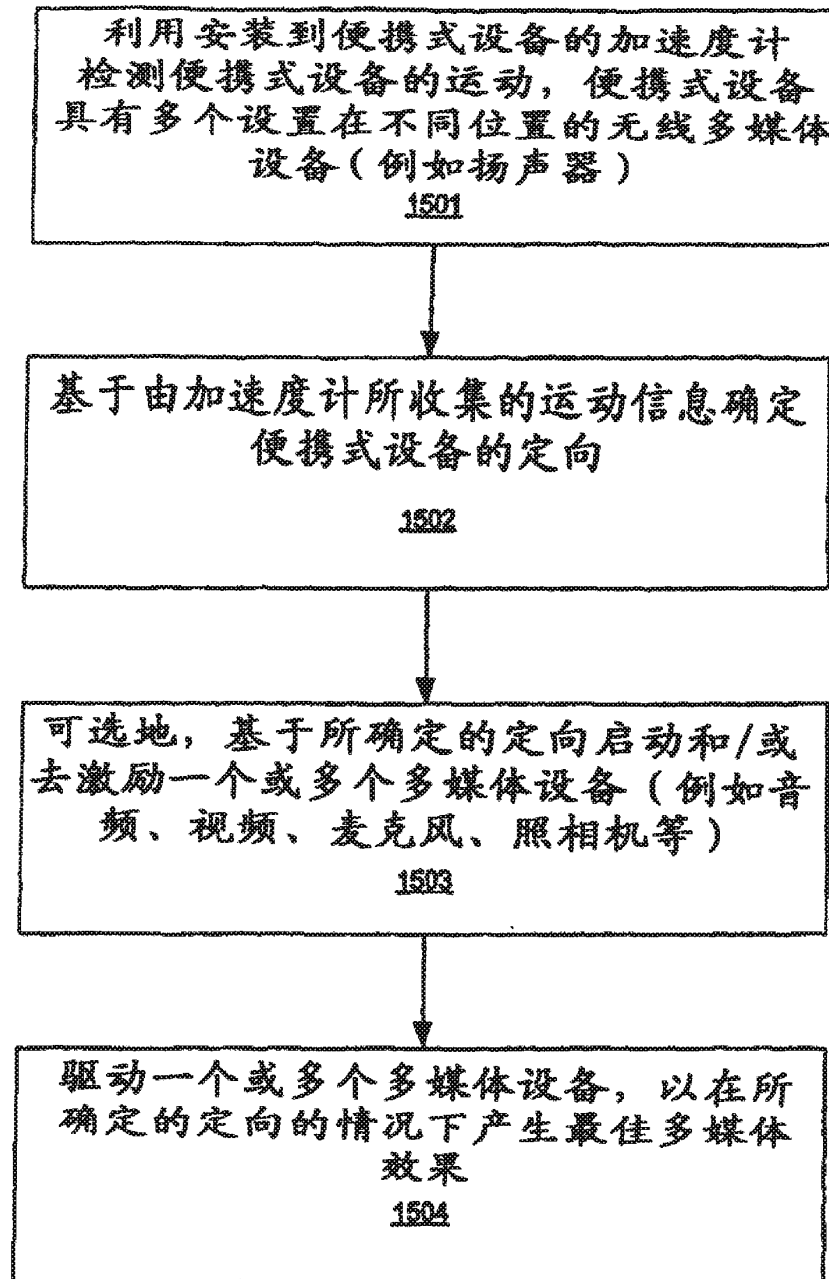
**1500**

图15

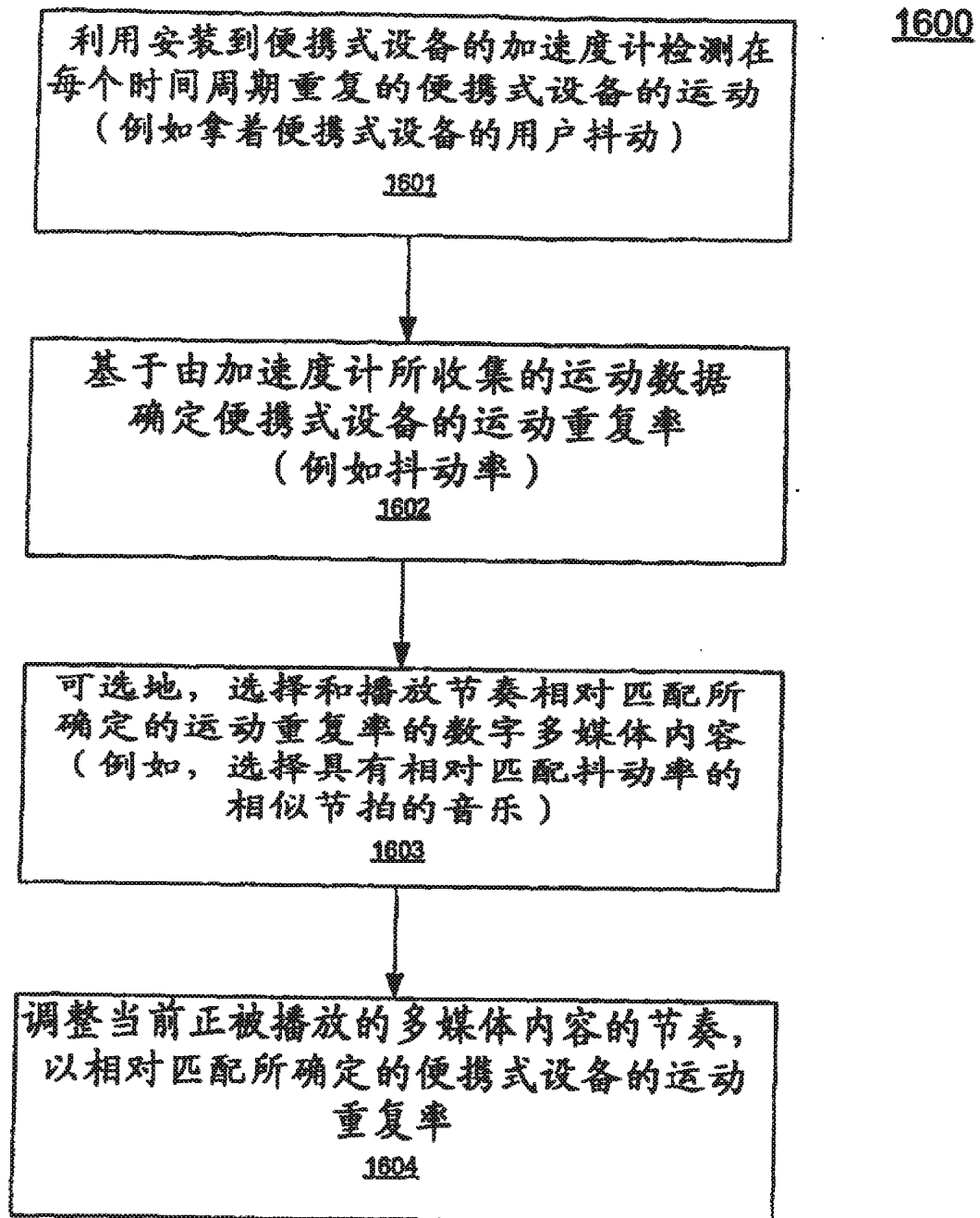


图 16



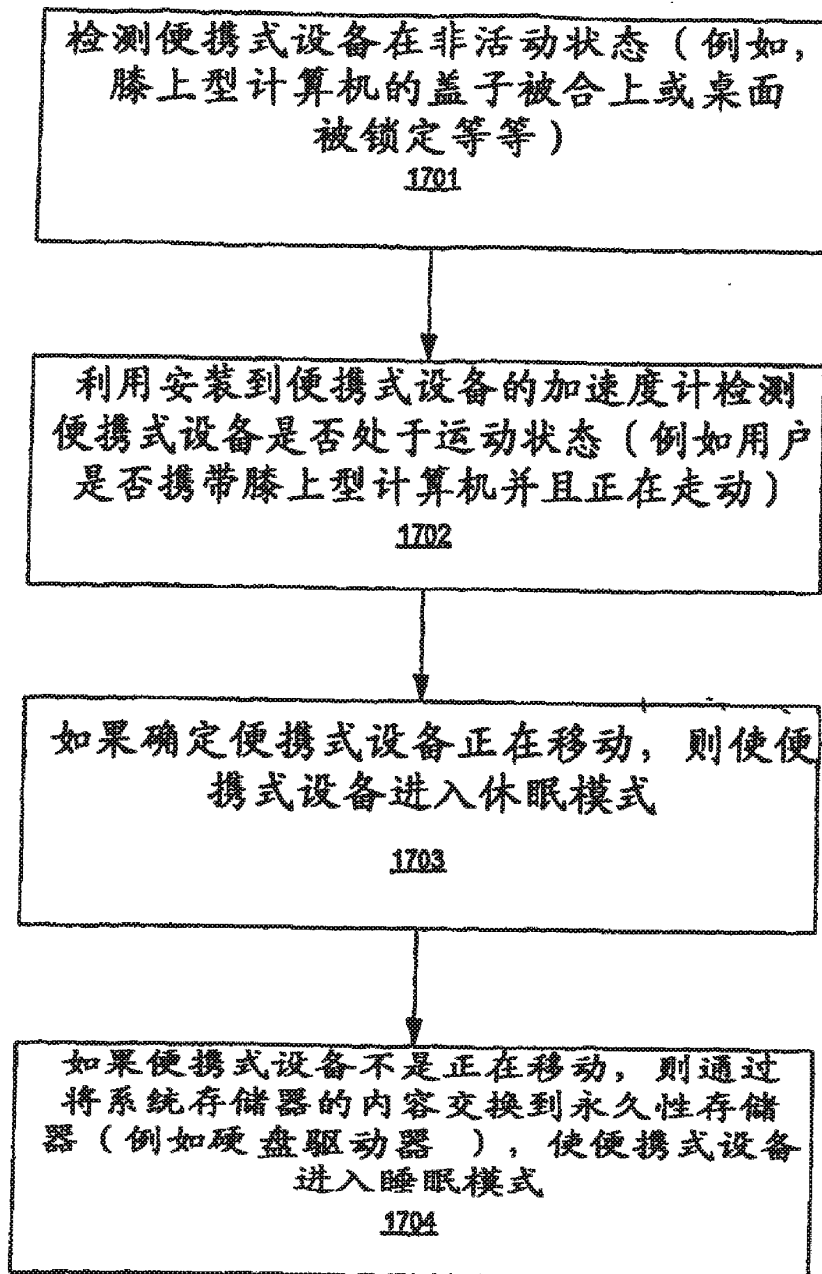
**1700**

图 17

**1800**

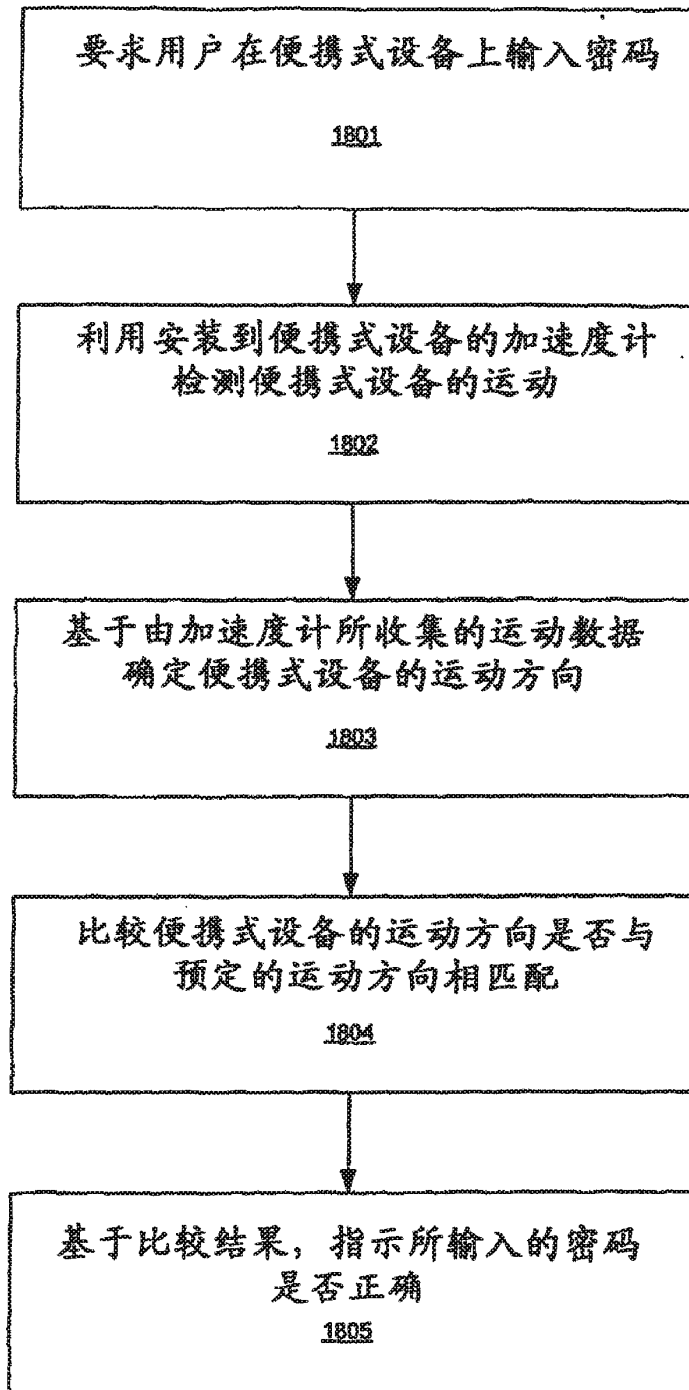


图 18

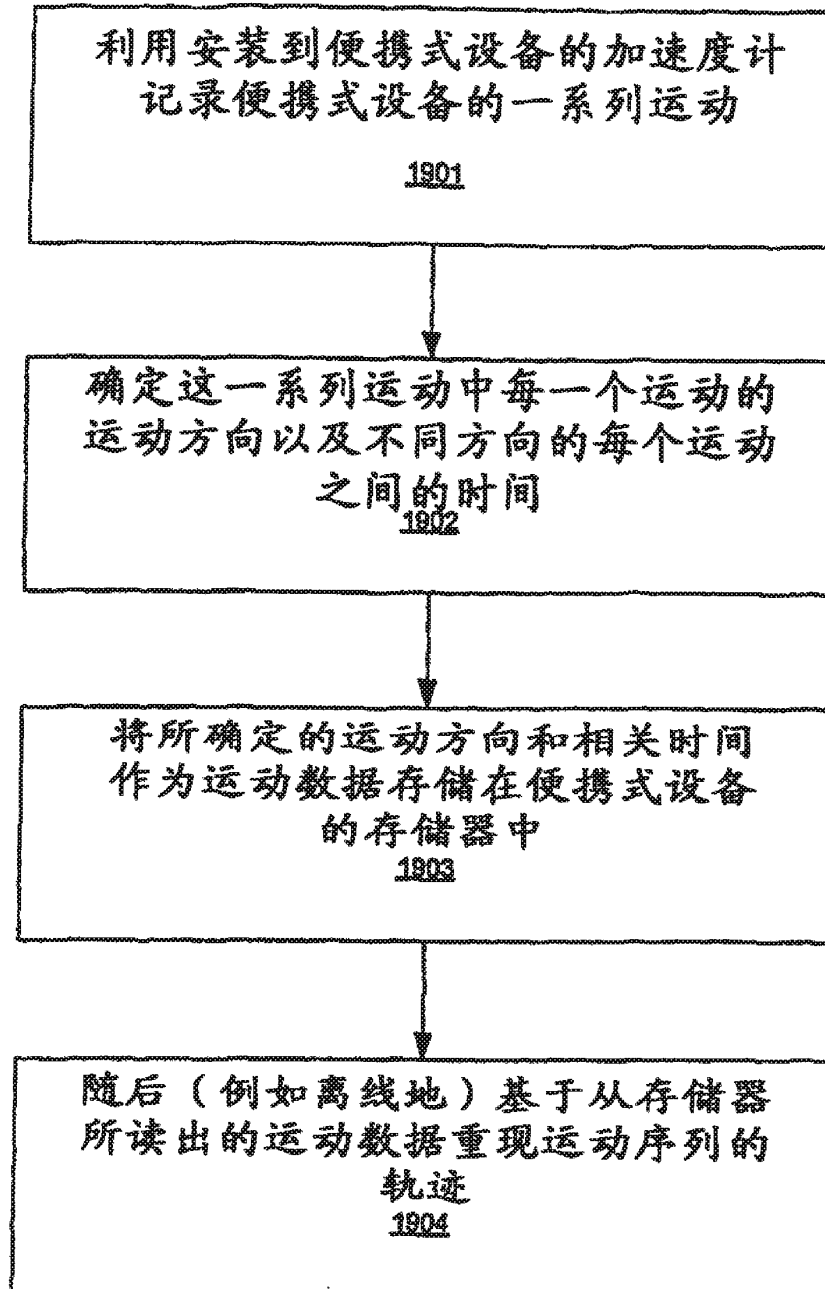
**1900**

图 19

**2000**

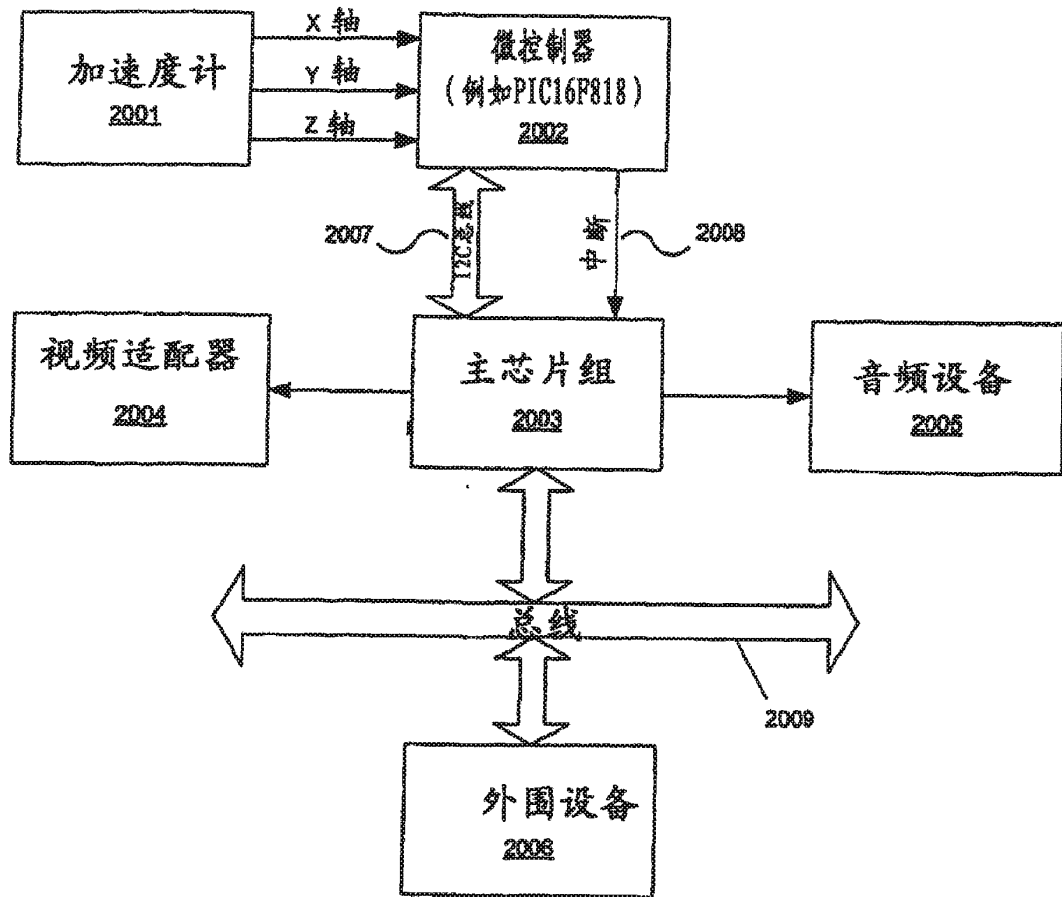


图20

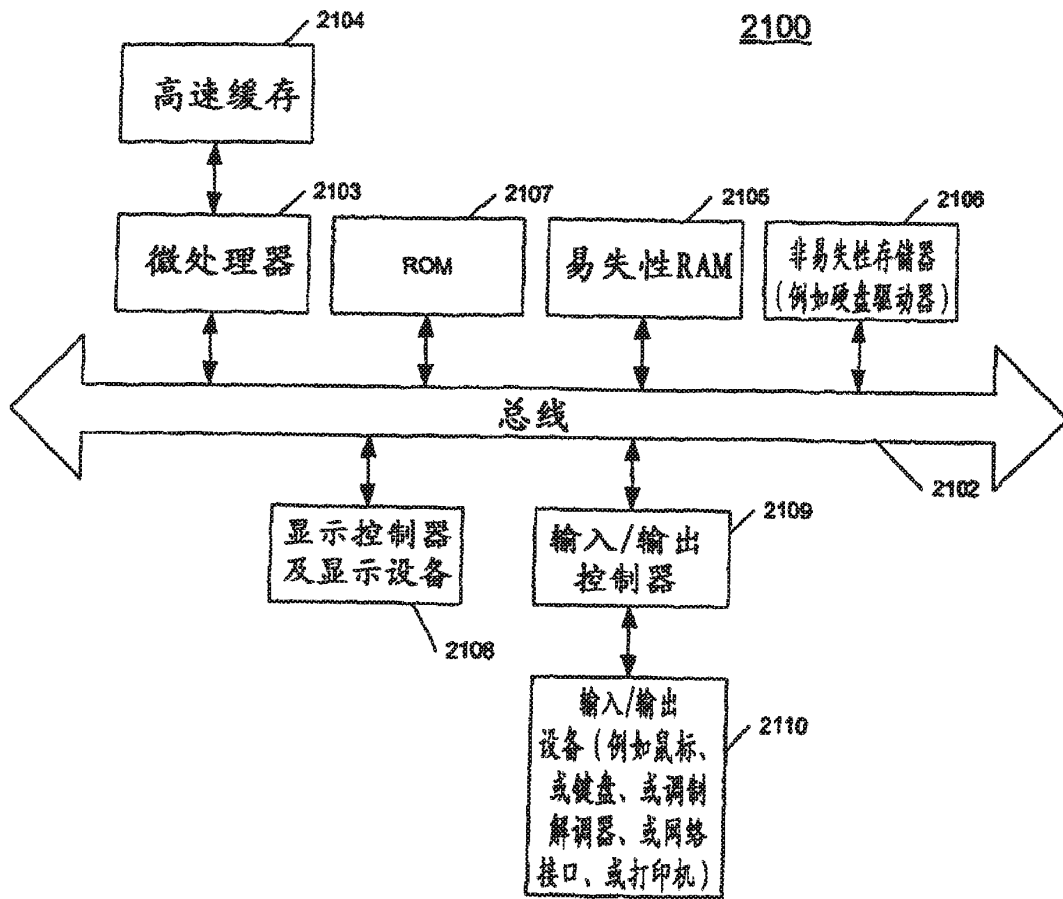


图 21

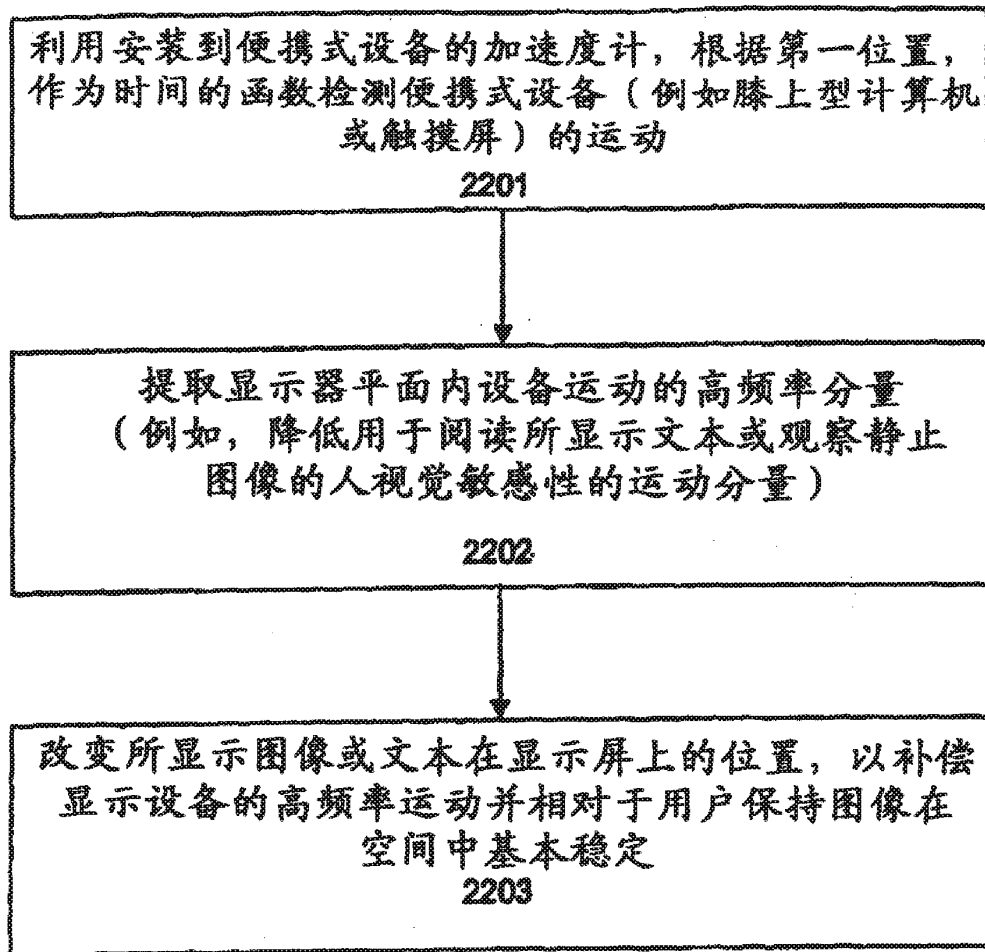


图 22

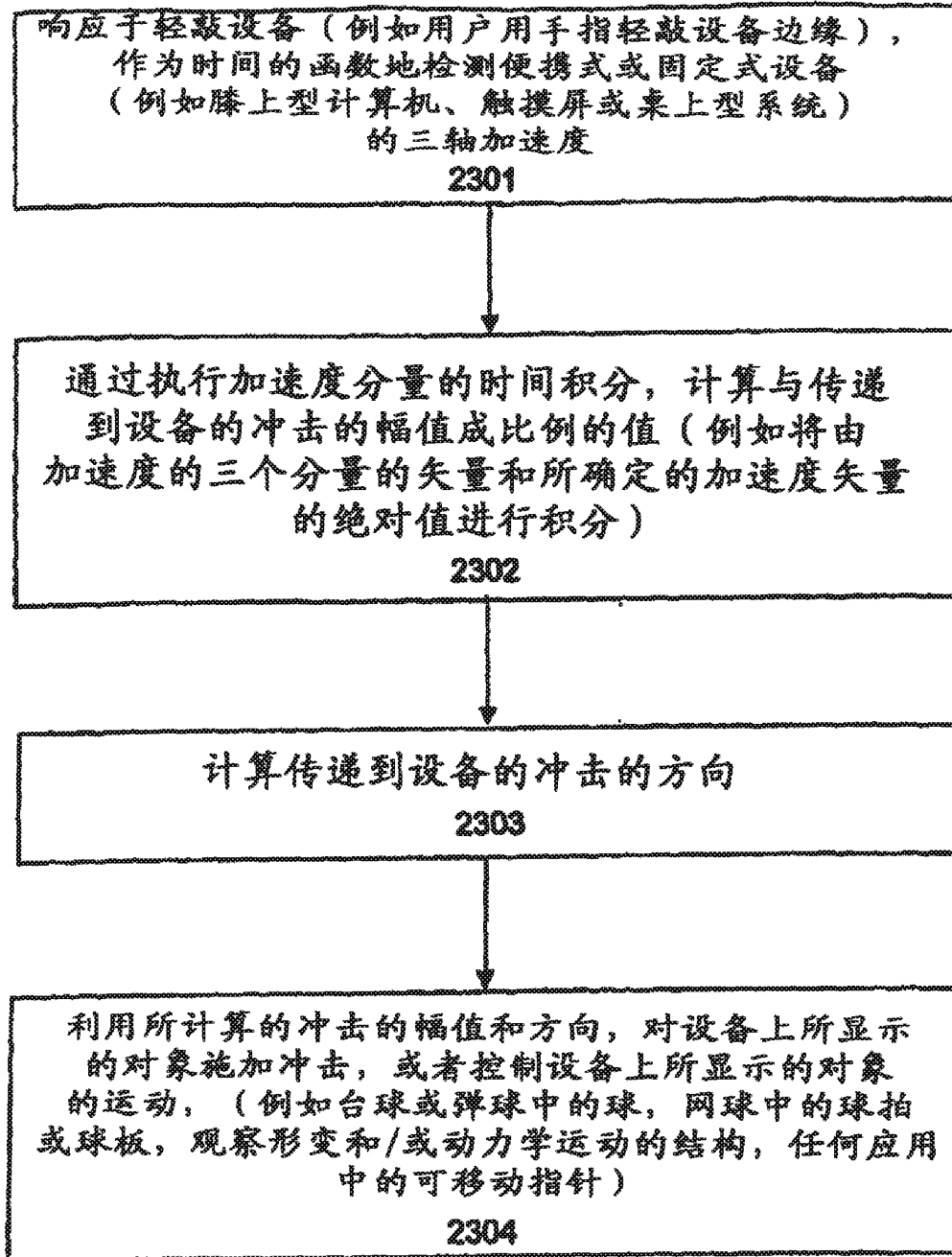


图 23

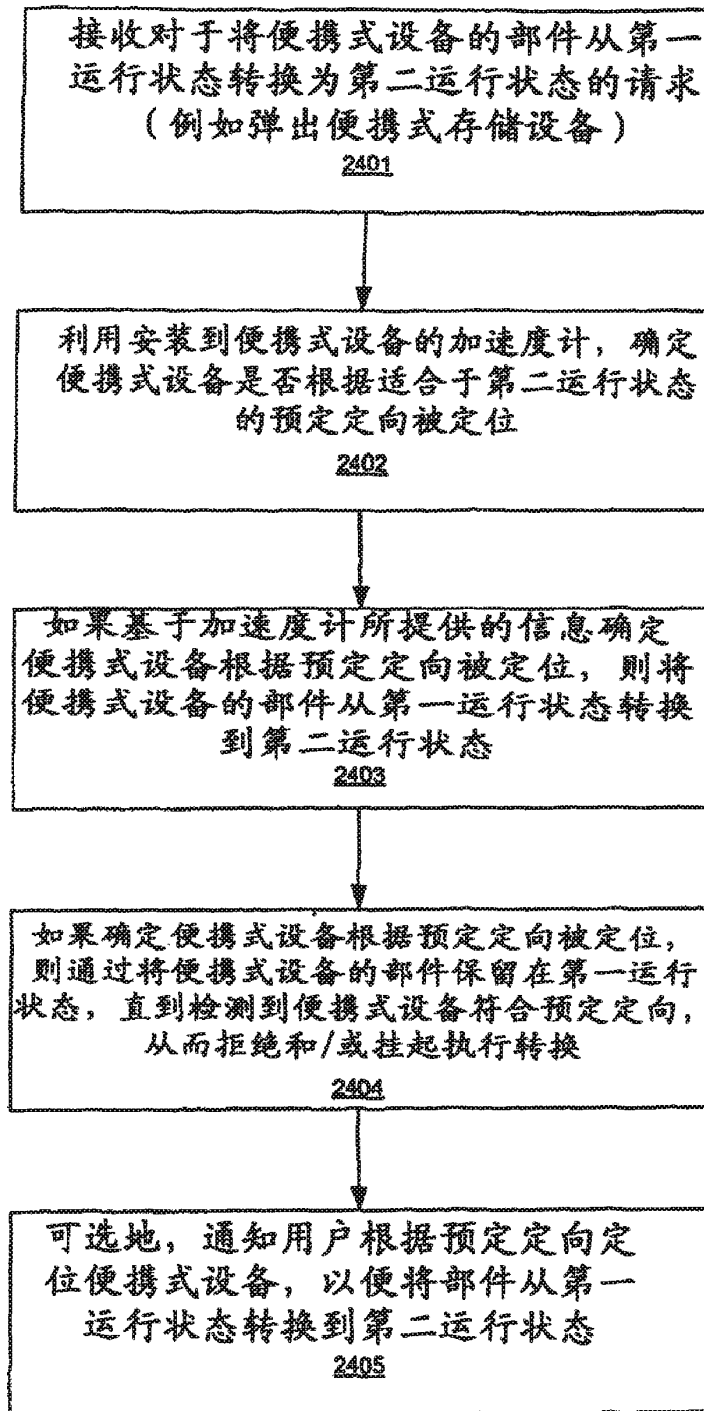


图 24



Electronic Patent Application Fee Transmittal				
<b>Application Number:</b>	14680422			
<b>Filing Date:</b>	07-Apr-2015			
<b>Title of Invention:</b>	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT			
<b>First Named Inventor/Applicant Name:</b>	Yves Behar			
<b>Filer:</b>	Marcus E. Browne/Lynn McNamara			
<b>Attorney Docket Number:</b>	L2039.70004US03			
Filed as Large Entity				
<b>Filing Fees for Utility under 35 USC 111(a)</b>				
<b>Description</b>	<b>Fee Code</b>	<b>Quantity</b>	<b>Amount</b>	<b>Sub-Total in USD(\$)</b>
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
<b>Extension-of-Time:</b>				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Miscellaneous:</b>				
Submission- Information Disclosure Stmt	1806	1	180	180
<b>Total in USD (\$)</b>				<b>180</b>

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	30575962
<b>Application Number:</b>	14680422
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	5691
<b>Title of Invention:</b>	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
<b>First Named Inventor/Applicant Name:</b>	Yves Behar
<b>Customer Number:</b>	23628
<b>Filer:</b>	Marcus E. Browne/Lynn McNamara
<b>Filer Authorized By:</b>	Marcus E. Browne
<b>Attorney Docket Number:</b>	L2039.70004US03
<b>Receipt Date:</b>	05-OCT-2017
<b>Filing Date:</b>	07-APR-2015
<b>Time Stamp:</b>	14:22:36
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$180
RAM confirmation Number	100617INTEFSW14234200
Deposit Account	232825
Authorized User	Wolf Greenfield

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:  
 37 CFR 1.17 (Patent application and reexamination processing fees)

<b>File Listing:</b>					
<b>Document Number</b>	<b>Document Description</b>	<b>File Name</b>	<b>File Size(Bytes)/ Message Digest</b>	<b>Multi Part /.zip</b>	<b>Pages (if appl.)</b>
1	Miscellaneous Incoming Letter	L203970004US03-TRN-MEB.pdf	74001 cc1d8a355f0776d65d5b3a47d93c8b5ff2fc39a	no	1
<b>Warnings:</b>					
<b>Information:</b>					
2	Fee Worksheet (SB06)	L203970004US03-FEE-MEB.pdf	91192 009d502a943552438e3726e24ece2db1ef83ddb6	no	1
<b>Warnings:</b>					
<b>Information:</b>					
3		L203970004US03-IDS-MEB.pdf	90359 659f95c902db06aa8b5c3c8a294aa2a4bba48009	yes	4
<b>Multipart Description/PDF files in .zip description</b>					
<b>Document Description</b>			<b>Start</b>	<b>End</b>	
Transmittal Letter			1	3	
Information Disclosure Statement (IDS) Form (SB08)			4	4	
<b>Warnings:</b>					
<b>Information:</b>					
4	Foreign Reference	CN1926496.pdf	1217406 a9c9aaf30c930fab5a37eed86d30235706975ed8	no	83
<b>Warnings:</b>					
<b>Information:</b>					
5	Other Reference-Patent/App/Search documents	L203970001CA00_OA_dated_08-18-2017.pdf	172859 4676e87eac5984630d2256b7b7bda88a48bc4f933	no	5
<b>Warnings:</b>					
<b>Information:</b>					

6	Fee Worksheet (SB06)	fee-info.pdf	31016  8dd4dcf0d4e3238e93184e7cc7f49b653e99ec6	no	2
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>				1676833	
<p><b>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.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>  <b>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.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  <b>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.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  <b>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.</b></p>					

<h1>TRANSMITTAL FORM</h1> <p><i>(to be used for all correspondence after initial filing)</i></p>	Application Number	14/680,422-Conf. #5691
	Filing Date	April 7, 2015
	First Named Inventor	Yves Behar
	Art Unit	2141
	Examiner Name	Claudia B. Dragoescu
Total Number of Pages in This Submission	Attorney Docket Number	L2039.70004US03

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form  <input type="checkbox"/> Fee Attached  <input type="checkbox"/> Amendment/Reply  <input type="checkbox"/> After Final  <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input checked="" type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Reply to Missing Parts/Incomplete Application  <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s)  <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition  <input type="checkbox"/> Petition to Convert to a Provisional Application  <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Request for Refund  <input type="checkbox"/> CD, Number of CD(s) _____  <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC  <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences  <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter  <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Form PTO - 1449  Copies of cited references
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	WOLF, GREENFIELD & SACKS, P.C.		
Signature	/Marcus E. Browne/		
Printed name	Marcus E. Browne		
Date	October 5, 2017	Reg. No.	71,897

<b>Certificate of Electronic Filing under 37 CFR §1.8</b> I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office's electronic filing system in accordance with 37 CFR § 1.6(a)(4).	
Dated: _____	Signature: _____ (Lynn P. McNamara)

<b>FEE TRANSMITTAL</b>		Complete if known	
		Application Number	14/680,422-Conf. #5691
		Filing Date	April 7, 2015
<input type="checkbox"/>	Applicant asserts small entity status. See 37 CFR 1.27.	First Named Inventor	Yves Behar
<input type="checkbox"/>	Applicant certifies micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.	Examiner Name	Claudia B. Dragoescu
		Art Unit	2141
TOTAL AMOUNT OF PAYMENT		Practitioner Docket No.	L2039.70004US03
			(\$)180.00

**METHOD OF PAYMENT** (check all that apply)

Check     Credit Card     Money Order     None     Other (please identify): \_\_\_\_\_  
 Deposit Account    Deposit Account Number: 23/2825    Deposit Account Name: Wolf, Greenfield & Sacks, P.C.

For the above-identified deposit account, the Director is hereby authorized to (check all that apply):

Charge fee(s) indicated below     Charge fee(s) indicated below, **except for the filing fee**  
 Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17     Credit any overpayment of fee(s)

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES (U = undiscounted fee; S = small entity fee; M = micro entity fee)**

Application Type	FILING FEES			SEARCH FEES			EXAMINATION FEES			Fees Paid (\$)
	U (\$)	S (\$)	M (\$)	U (\$)	S (\$)	M (\$)	U (\$)	S (\$)	M (\$)	
Utility	280	140*	70	600	300	150	720	360	180	
Design	180	90	45	120	60	30	460	230	115	
Plant	180	90	45	380	190	95	580	290	145	
Reissue	280	140	70	600	300	150	2,160	1,080	540	
Provisional	260	130	65	0	0	0	0	0	0	

\* The \$140 small entity status filing fee for a utility application is further reduced to \$70 for a small entity status applicant who files the application via EFS-Web.

**2. EXCESS CLAIM FEES**

Fee Description	Undiscounted Fee (\$)	Small Entity Fee (\$)	Micro Entity Fee (\$)
Each claim over 20 (including Reissues)	80	40	20
Each independent claim over 3 (including Reissues)	420	210	105
Multiple dependent claims	780	390	195

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims	Fee (\$)	Fee Paid (\$)
_____	_____	x _____ = _____	_____	_____	_____	_____

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

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
_____	_____	x _____ = _____	_____

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

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$400 (\$200 for small entity) (\$100 for micro entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____	_____	_____ (round up to a whole number) x _____ = _____	_____	_____

**4. OTHER FEE(S)**

Non-English specification, \$130 fee (no small or micro entity discount) \_\_\_\_\_ **Fees Paid (\$)**

Non-electronic filing fee under 37 CFR 1.16(t) for a utility application, \$400 fee (\$200 small or micro entity) \_\_\_\_\_

Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement \_\_\_\_\_ **180.00**

<b>SUBMITTED BY</b>			
Signature	/Marcus E. Browne/	Registration No. (Attorney/Agent)	71,897 Telephone 617.646.8000
Name (Print/Type)	Marcus E. Browne	Date	October 5, 2017

<b>Certificate of Electronic Filing under 37 CFR §1.8</b>	
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office's electronic filing system in accordance with 37 CFR § 1.6(a)(4).	
Dated: _____ 10-05-2017 _____	Signature: ___/Lynn P. McNamara/ _____ (Lynn P. McNamara)

5771104.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Yves Behar  
Application No.: 14/680,422  
Confirmation No.: 5691  
Filed: April 07, 2015  
For: SYSTEM AND METHOD FOR STREAMLINING USER  
INTERACTION WITH ELECTRONIC CONTENT  
Examiner: Claudia B. Dragoescu  
Art Unit: 2141

---

**CERTIFICATE OF ELECTRONIC FILING UNDER 37 C.F.R. § 1.8**

The undersigned hereby certifies that this paper, along with any paper referred to as being attached or enclosed, is being transmitted via the Office electronic filing system in accordance with § 1.6(a)(4), on the 5<sup>th</sup> day of October, 2017.

\_\_\_\_\_/Lynn P. McNamara/\_\_\_\_\_  
Lynn P. McNamara

---

**MAIL STOP AMENDMENT**

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

**STATEMENT FILED PURSUANT TO THE DUTY OF  
DISCLOSURE UNDER 37 C.F.R. §§ 1.56, 1.97 AND 1.98**

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, the undersigned requests consideration of this Information Disclosure Statement.

**PART I: Compliance with 37 C.F.R. § 1.97**

This Information Disclosure Statement has been filed after the mailing date of either a Final Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311 and is being filed on or before payment of an Issue Fee.

The undersigned hereby states, as specified in 37 C.F.R. § 1.97(e), 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 for this application not more than three months prior to the filing of this Statement.



Please charge our Credit Card in the amount of \$180.00 covering the fee set forth in 37 C.F.R. § 1.17(p).

PART II: Information Cited

The undersigned hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified PTO/SB/08). The order of presentation of the references should not be construed as an indication of the importance of the references.

The undersigned hereby makes the following additional information of record in the above-identified application.

The undersigned would like to bring to the Examiner's attention the following other information:

**Canadian Office Action mailed 08/18/2017 for Canadian Application No. 2719828 (L2039.70001CA00).**

PART III: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 (modified PTO/SB/08) be signed by the Examiner to evidence that the cited information has been fully considered by the United States Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the undersigned makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the undersigned makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

By submitting this Information Disclosure Statement, the undersigned makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. § 102.

Notwithstanding any statements by the undersigned, the Examiner is urged to form his or her own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

The Director is hereby authorized to charge any deficiency or credit any overpayment in the fees occasioned by the filing of this Information Disclosure Statement to our Deposit Account No. 23/2825 under Docket No. L2039.70004US03 from which the undersigned is authorized to draw.

Respectfully submitted,

By: /Marcus E. Browne/  
Marcus E. Browne, Reg. No. 71,897  
Wolf, Greenfield & Sacks, P.C.  
600 Atlantic Avenue  
Boston, Massachusetts 02210-2206  
Telephone: (617) 646-8000

Docket No.: L2039.70004US03  
Date: October 5, 2017  
**xNDDx**

<h1>TRANSMITTAL FORM</h1> <p><i>(to be used for all correspondence after initial filing)</i></p>	Application Number	14/680,422-Conf. #5691
	Filing Date	April 7, 2015
	First Named Inventor	Yves Behar
	Art Unit	2143
	Examiner Name	J. N. To
Total Number of Pages in This Submission	Attorney Docket Number	L2039.70004US03

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <ul style="list-style-type: none"> <li>• Substitute Statements in Lieu of Declarations (14)</li> <li>• Inventor Declarations (5)</li> </ul>
Remarks		


SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	WOLF, GREENFIELD & SACKS, P.C.		
Signature	/Marcus E. Browne/		
Printed name	Marcus E. Browne		
Date	September 26, 2017	Reg. No.	71,897

<b>Certificate of Electronic Filing under 37 CFR §1.8</b>	
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office's electronic filing system in accordance with 37 CFR § 1.6(a)(4).	
Dated: <u>September 26, 2017</u>	Electronic Signature for: <u>/Eileen M. MacKenzie/</u>

**DECLARATION (37 C.F.R. § 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. § 1.76)**

<b>Title of Invention</b>	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
<p>As the below named inventor, I declare that:</p> <p>This declaration is directed to:</p> <p><input type="checkbox"/> The attached application, or</p> <p><input checked="" type="checkbox"/> United States application or PCT international application number <u>14/680,422</u> filed on <u>April 7, 2015</u></p> <p><input type="checkbox"/> As amended on _____ (if applicable);</p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought.</p> <p>I believe I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above.</p> <p>I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56.</p> <p>All statements made herein of my own knowledge are true, and all statements made herein on information and belief are believed to be true.</p> <p>I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.</p>	

<b>LEGAL NAME OF SOLE OR FIRST INVENTOR</b>	
Inventor one: <u>Yves Behar</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>
<b>LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any</b>	
Inventor two: <u>Joshua Morenstein</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>
<b>LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any</b>	
Inventor three: <u>Christopher Hibmacronan</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>
<b>LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any</b>	
Inventor four: <u>Naoya Edahiro</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>
<input checked="" type="checkbox"/> Additional inventors are being named on <u>2</u> additional form(s) attached hereto.	

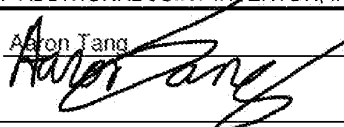
DECLARATION FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET	ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 2
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any	
Inventor five: <u>Matthew David Day</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any	
Inventor six: <u>Robert Sanford Havoc Pennington</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any	
Inventor seven: <u>Noah Bruce Guyot</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any	
Inventor eight: <u>Daniel Kuo</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any	
Inventor nine: <u>Jenea Boshart Hayes</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any	
Inventor ten: <u>Aaron Tang</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any	
Inventor eleven: <u>Donald Francis Fischer</u>	Date: <u>8/5/2016</u>
Signature: 	Citizen of: <u>US</u>
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any	
Inventor twelve: <u>Christian Marc Schmidt</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any	
Inventor thirteen: <u>Lisa Strausfeld</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>

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Inventor fourteen: <u>David Livingston Fore</u> Date: _____ Signature: _____ Citizen of: <u>US</u>	
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Inventor fifteen: <u>John H. Chuang</u> Date: _____ Signature: _____ Citizen of: <u>US</u>	
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Inventor sixteen: <u>Chris Bambacus</u> Date: _____ Signature: _____ Citizen of: <u>US</u>	
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Inventor seventeen: <u>Bart Haney</u> Date: _____ Signature: _____ Citizen of: <u>US</u>	
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Inventor eighteen: <u>Logan Ray</u> Date: _____ Signature: _____ Citizen of: <u>US</u>	
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any	
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Inventor nine: <u>Jenea Boshart Hayes</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any	
Inventor ten: <u>Aaron Tang</u>	Date: <u>July 22, 2016</u>
Signature: 	Citizen of: <u>US</u>
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any	
Inventor eleven: <u>Donald Francis Fischer</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>
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Inventor twelve: <u>Christian Marc Schmidt</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>
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Inventor thirteen: <u>Lisa Strausfeld</u>	Date: _____
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Inventor seventeen: <u>Bart Haney</u> Date: _____ Signature: _____ Citizen of: <u>US</u>	
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**DECLARATION (37 C.F.R. § 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. § 1.76)**

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Inventor one: <u>Yves Behar</u>	Date: _____
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Signature: _____	Citizen of: <u>US</u>
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Signature: _____	Citizen of: <u>US</u>
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LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any	
Inventor sixteen: <u>Chris Bambacus</u> Date: <u>7/25/16</u> Signature:  Citizen of: <u>US</u>	
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any	
Inventor seventeen: <u>Bart Haney</u> Date: _____ Signature: _____ Citizen of: <u>US</u>	
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**DECLARATION (37 C.F.R. § 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. § 1.76)**

**Title of Invention** SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT

As the below named inventor, I declare that:

This declaration is directed to:

- The attached application, or
- United States application or PCT international application number 14/680,422 filed on April 7, 2015
- As amended on \_\_\_\_\_ (if applicable);

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

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought.

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**LEGAL NAME OF SOLE OR FIRST INVENTOR**

Inventor one: Yves Behar Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Citizen of: US

**LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any**

Inventor two: Joshua Morenstein Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Citizen of: US

**LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any**

Inventor three: Christopher Hibernacronan Date: \_\_\_\_\_

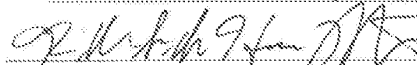
Signature: \_\_\_\_\_ Citizen of: US

**LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any**

Inventor four: Naoya Edahiro Date: \_\_\_\_\_

Signature: \_\_\_\_\_ Citizen of: US

Additional inventors are being named on 2 additional form(s) attached hereto.

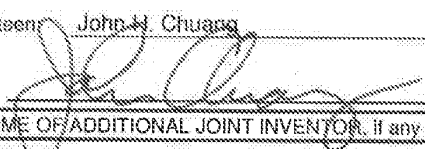
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Signature: _____	Citizen of: <u>US</u>
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any	
Inventor six: <u>Robert Sanford Havoc Pennington</u>	Date: <u>2016-08-15</u>
Signature: 	Citizen of: <u>US</u>
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any	
Inventor seven: <u>Noah Bruce Guyot</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>
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Inventor eighteen: <u>Logan Ray</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>
LEGAL NAME OF ADDITIONAL JOINT INVENTOR, if any	
Inventor nineteen: <u>Serge Beaulieu</u>	Date: _____
Signature: _____	Citizen of: <u>US</u>

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.

SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)			
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT		
This statement is directed to:			
<input type="checkbox"/> The attached application,			
OR			
<input checked="" type="checkbox"/> United States application or PCT international application number <u>14/680,422</u> filed on <u>04/07/2015</u>			
<b>LEGAL NAME of inventor to whom this substitute statement applies:</b>			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Joshua Morenstein			
Residence (except for a deceased or legally incapacitated inventor):			
San Francisco	CA	United States of America	
City	State	Country	
Mailing Address (except for a deceased or legally incapacitated inventor):			
124 Downey Street			
San Francisco	CA	94117	United States of America
City	State	Zip	Country
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only),			
<input checked="" type="checkbox"/> Assignee,			
<input type="checkbox"/> Person to whom the inventor is under an obligation to assign,			
<input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or			
<input type="checkbox"/> Joint Inventor.			

**SUBSTITUTE STATEMENT**

Circumstances permitting execution of this substitute statement:

- Inventor is deceased,
- Inventor is under legal incapacity,
- Inventor cannot be found or reached after diligent effort, or
- Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.
- OR
- An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

**WARNING:**

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**PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

Name: Kristin Carroll

Date (Optional)

Signature: **APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer:

Applicant Name: LITL LLC

Title of Person Executing  
This Substitute Statement: General Counsel

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

Boston	MA	United States of America
City	State	Country

Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

501 Boylston Street

Boston	MA	02116	United States of America
City	State	Zip	Country

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

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<b>LEGAL NAME of inventor to whom this substitute statement applies:</b>			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname) Christopher Hibmacronan			
Residence (except for a deceased or legally incapacitated inventor):			
City Oakland	State CA	Country United States of America	
Mailing Address (except for a deceased or legally incapacitated inventor): 2429 Damuth Street			
City Oakland	State CA	Zip 94602	Country United States of America
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.  The above-identified application was made or authorized to be made by me.  I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only), <input checked="" type="checkbox"/> Assignee, <input type="checkbox"/> Person to whom the inventor is under an obligation to assign, <input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or <input type="checkbox"/> Joint inventor.			

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Name: Kristin Carroll

Date (Optional):

Signature: **APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer:

Applicant Name: LITL LLC

Title of Person Executing  
This Substitute Statement: General Counsel

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Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

Boston	MA	United States of America
City	State	Country

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501 Boylston Street

Boston	MA	02116	United States of America
City	State	Zip	Country

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Doc code: Oath  
Document Description: Oath or declaration filed

PTO/AIA/02 (07-13)  
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LEGAL NAME of inventor to whom this substitute statement applies:			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Naoya Edahiro			
Residence (except for a deceased or legally incapacitated inventor):			
San Francisco	CA	United States of America	
City	State	Country	
Mailing Address (except for a deceased or legally incapacitated inventor):			
375 Bartlett Street			
San Francisco	CA	94110	United States of America
City	State	Zip	Country
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
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<input checked="" type="checkbox"/> Assignee,			
<input type="checkbox"/> Person to whom the inventor is under an obligation to assign,			
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<input type="checkbox"/> Joint Inventor.			

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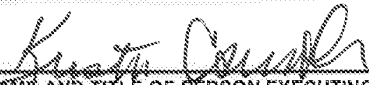
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**PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

Name: Kristin Carroll

Date (Optional):

Signature: **APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer.

Applicant Name: LITL LLC

Title of Person Executing  
This Substitute Statement: General Counsel

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

City	Boston	State	MA	Country	United States of America
------	--------	-------	----	---------	--------------------------

Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

501 Boylston Street

City	Boston	State	MA	Zip	02116	Country	United States of America
------	--------	-------	----	-----	-------	---------	--------------------------

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.



Doc code: Oath  
Document Description: Oath or declaration filed

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OR			
<input checked="" type="checkbox"/> United States application or PCT international application number <u>14/680,422</u> filed on <u>04/07/2015</u>			
<b>LEGAL NAME of inventor to whom this substitute statement applies:</b>			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Noah Bruce Guyot			
Residence (except for a deceased or legally incapacitated inventor):			
City	State	Country	
Mill Valley	CA	United States of America	
Mailing Address (except for a deceased or legally incapacitated inventor):			
4 Longfellow Road			
City	State	Zip	Country
Mill Valley	CA	94941	United States of America
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
<b>Relationship to the inventor to whom this substitute statement applies:</b>			
<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only),			
<input checked="" type="checkbox"/> Assignee,			
<input type="checkbox"/> Person to whom the inventor is under an obligation to assign,			
<input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or			
<input type="checkbox"/> Joint inventor.			

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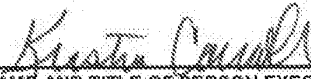
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**PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

Name: Kristin Carroll

Date (Optional):

Signature: **APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer:

Applicant Name: LITL LLC

Title of Person Executing  
This Substitute Statement: General Counsel

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

**Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):**

City	Boston	State	MA	Country	United States of America
------	--------	-------	----	---------	--------------------------

**Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)**

501 Boylston Street

City	Boston	State	MA	Zip	02116	Country	United States of America
------	--------	-------	----	-----	-------	---------	--------------------------

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

Doc code: Oath  
Document Description: Oath or declaration filed

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OR			
<input checked="" type="checkbox"/> United States application or PCT international application number <u>14/680,422</u> filed on <u>04/07/2016</u>			
<b>LEGAL NAME of inventor to whom this substitute statement applies:</b>			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Daniel Kuo			
Residence (except for a deceased or legally incapacitated inventor):			
San Francisco	CA	United States of America	
City	State	Country	
Mailing Address (except for a deceased or legally incapacitated inventor):			
1916 Page Street; Apartment 1			
San Francisco	CA	94117	United States of America
City	State	Zip	Country
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only),			
<input checked="" type="checkbox"/> Assignee,			
<input type="checkbox"/> Person to whom the inventor is under an obligation to assign,			
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<input type="checkbox"/> Joint inventor.			

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Name: Kristin Carroll

Date (Optional):

Signature: **APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

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Applicant Name: LITL LLC

Title of Person Executing  
This Substitute Statement: General Counsel

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<b>LEGAL NAME of inventor to whom this substitute statement applies:</b>			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Jenea Boshart Hayes			
Residence (except for a deceased or legally incapacitated inventor):			
City	State	Country	
Castro Valley	CA	United States of America	
Mailing Address (except for a deceased or legally incapacitated inventor):			
18379 Plymouth Drive			
City	State	Zip	Country
Castro Valley	CA	94546	United States of America
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
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<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only),			
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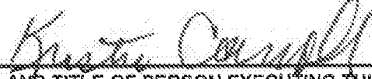
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Date (Optional):

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Title of Person Executing  
This Substitute Statement: General Counsel

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

City	Boston	State	MA	Country	United States of America
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Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

501 Boylston Street

City	Boston	State	MA	Zip	02116	Country	United States of America
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Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

Doc code: Oath  
Document Description: Oath or declaration filed

PTO/AIA/02 (07-13)  
Approved for use through 04/30/2017. 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.

SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)							
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT						
This statement is directed to:							
<input type="checkbox"/> The attached application,							
OR							
<input checked="" type="checkbox"/> United States application or PCT international application number <u>14/680,422</u> filed on <u>04/07/2015</u>							
<b>LEGAL NAME of inventor to whom this substitute statement applies:</b>							
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)							
Lisa Strausfeld							
Residence (except for a deceased or legally incapacitated inventor):							
City	New York	State	NY	Country	United States of America		
Mailing Address (except for a deceased or legally incapacitated inventor):							
114 East 13th Street; Apartment 7D							
City	New York	State	NY	Zip	10003	Country	United States of America
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.							
The above-identified application was made or authorized to be made by me.							
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.							
Relationship to the inventor to whom this substitute statement applies:							
<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only),							
<input checked="" type="checkbox"/> Assignee,							
<input type="checkbox"/> Person to whom the inventor is under an obligation to assign,							
<input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or							
<input type="checkbox"/> Joint Inventor.							

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**SUBSTITUTE STATEMENT**

Circumstances permitting execution of this substitute statement:

- Inventor is deceased,
- Inventor is under legal incapacity,
- Inventor cannot be found or reached after diligent effort, or
- Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

OR

- An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

**WARNING:**

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**PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

Name: Kristin Carroll Date (Optional):

Signature: 

**APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer.

Applicant Name: LITL LLC  
 Title of Person Executing This Substitute Statement: General Counsel

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

**Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):**

City Boston	State MA	Country United States of America
----------------	-------------	-------------------------------------

**Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)**

501 Boylston Street

City Boston	State MA	Zip 02116	Country United States of America
----------------	-------------	--------------	-------------------------------------

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.



Doc code: Oath

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PTO/AIA/02 (07-13)

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**SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY  
OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)**

<b>Title of Invention</b>	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT		
This statement is directed to:			
<input type="checkbox"/> The attached application,			
OR			
<input checked="" type="checkbox"/> United States application or PCT international application number <u>14/680,422</u> filed on <u>04/07/2015</u>			
<b>LEGAL NAME of inventor to whom this substitute statement applies:</b>			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Christian Marc Schmidt			
Residence (except for a deceased or legally incapacitated inventor):			
City	State	Country	
Brooklyn	NY	United States of America	
Mailing Address (except for a deceased or legally incapacitated inventor):			
119 Smith Street; Apartment 3			
City	State	Zip	Country
Brooklyn	NY	11201	United States of America
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only),			
<input checked="" type="checkbox"/> Assignee,			
<input type="checkbox"/> Person to whom the inventor is under an obligation to assign,			
<input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or			
<input type="checkbox"/> Joint inventor.			

**SUBSTITUTE STATEMENT**

Circumstances permitting execution of this substitute statement:

- Inventor is deceased,
- Inventor is under legal incapacity,
- Inventor cannot be found or reached after diligent effort, or
- Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

OR

- An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

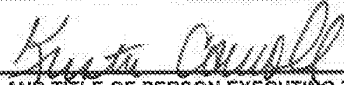
**WARNING:**

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**PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

Name: Kristin Carroll

Date (Optional):

Signature: **APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer:

Applicant Name: LITL LLC

Title of Person Executing  
This Substitute Statement: General Counsel

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

City	Boston	State	MA	Country	United States of America
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Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

501 Boylston Street

City	Boston	State	MA	Zip	02116	Country	United States of America
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Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

Doc code: Oath  
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<b>SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)</b>			
<b>Title of Invention</b>	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT		
This statement is directed to:			
<input type="checkbox"/> The attached application,			
OR			
<input checked="" type="checkbox"/> United States application or PCT international application number <u>14/680,422</u> filed on <u>04/07/2015</u> .			
<b>LEGAL NAME of inventor to whom this substitute statement applies:</b>			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
David Livingstone Fore			
Residence (except for a deceased or legally incapacitated inventor):			
Oakland	CA	United States of America	
City	State	Country	
Mailing Address (except for a deceased or legally incapacitated inventor):			
1 Lakeside Drive # 602			
Oakland	CA	94612	United States of America
City	State	Zip	Country
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only),			
<input checked="" type="checkbox"/> Assignee,			
<input type="checkbox"/> Person to whom the inventor is under an obligation to assign,			
<input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or			
<input type="checkbox"/> Joint Inventor.			

**SUBSTITUTE STATEMENT**

Circumstances permitting execution of this substitute statement:

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- Inventor cannot be found or reached after diligent effort, or
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If there are joint inventors, please check the appropriate box below:

- An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

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**PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

Name: Kristin Carroll

Date (Optional):

Signature:



**APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer.

Applicant Name: LITL LLC

Title of Person Executing This Substitute Statement: General Counsel

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

**Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):**

City	Boston	State	MA	Country	United States of America
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**Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)**

501 Boylston Street

City	Boston	State	MA	Zip	02116	Country	United States of America
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Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

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SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)			
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT		
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OR			
<input checked="" type="checkbox"/> United States application or PCT international application number <u>14/680,422</u> filed on <u>04/07/2015</u>			
<b>LEGAL NAME of inventor to whom this substitute statement applies:</b>			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Serge Beaulieu			
Residence (except for a deceased or legally incapacitated inventor):			
San Francisco	CA	United States of America	
City	State	Country	
Mailing Address (except for a deceased or legally incapacitated inventor):			
409B Lyon Street			
San Francisco	CA	94117	United States of America
City	State	Zip	Country
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only),			
<input checked="" type="checkbox"/> Assignee,			
<input type="checkbox"/> Person to whom the inventor is under an obligation to assign,			
<input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or			
<input type="checkbox"/> Joint inventor.			

**SUBSTITUTE STATEMENT**

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- Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

OR

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**PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

Name: Kristin Carroll

Date (Optional):

Signature:



**APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer.

Applicant Name: LITL LLC

Title of Person Executing This Substitute Statement: General Counsel

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

**Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):**

City	Boston	State	MA	Country	United States of America
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**Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)**

501 Boylston Street

City	Boston	State	MA	Zip	02116	Country	United States of America
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Doc code: Oath  
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<b>Title of Invention</b>	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT		
This statement is directed to:			
<input type="checkbox"/> The attached application,			
OR			
<input checked="" type="checkbox"/> United States application or PCT international application number <u>14/680,422</u> filed on <u>04/07/2015</u>			
<b>LEGAL NAME of inventor to whom this substitute statement applies:</b>			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Logan Ray			
Residence (except for a deceased or legally incapacitated inventor):			
City	State	Country	
Mailing Address (except for a deceased or legally incapacitated inventor):			
711 Boylston Street			
City	State	Zip	Country
Boston	MA	02116	United States of America
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only),			
<input checked="" type="checkbox"/> Assignee,			
<input type="checkbox"/> Person to whom the inventor is under an obligation to assign,			
<input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or			
<input type="checkbox"/> Joint inventor.			

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**SUBSTITUTE STATEMENT**

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- Inventor is under legal incapacity,
- Inventor cannot be found or reached after diligent effort, or
- Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

OR

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**PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

Name: Kristin Carroll

Date (Optional):

Signature:



**APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer.

Applicant Name: LITL LLC

Title of Person Executing This Substitute Statement: General Counsel

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

**Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):**

City	Boston	State	MA	Country	United States of America
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501 Boylston Street

City	Boston	State	MA	Zip	02116	Country	United States of America
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OR			
<input checked="" type="checkbox"/> United States application or PCT international application number <u>14/680,422</u> filed on <u>04/07/2015</u>			
<b>LEGAL NAME of inventor to whom this substitute statement applies:</b>			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Bart Haney			
Residence (except for a deceased or legally incapacitated inventor):			
Boston	MA	United States of America	
City	State	Country	
Mailing Address (except for a deceased or legally incapacitated inventor):			
711 Boylston Street			
Boston	MA	02116	United States of America
City	State	Zip	Country
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only),			
<input checked="" type="checkbox"/> Assignee,			
<input type="checkbox"/> Person to whom the inventor is under an obligation to assign,			
<input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or			
<input type="checkbox"/> Joint Inventor.			

**SUBSTITUTE STATEMENT**

Circumstances permitting execution of this substitute statement:

- Inventor is deceased,
- Inventor is under legal incapacity,
- Inventor cannot be found or reached after diligent effort, or
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- An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

**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.

**PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

Name: Kristin Carroll

Date (Optional):

Signature:

**APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer:

Applicant Name: LITL LLC

Title of Person Executing  
This Substitute Statement: General Counsel

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

Boston	MA	United States of America
City	State	Country

Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

501 Boylston Street

Boston	MA	02116	United States of America
City	State	Zip	Country

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

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.

SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)			
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT		
This statement is directed to:			
<input type="checkbox"/> The attached application,			
OR			
<input checked="" type="checkbox"/> United States application or PCT international application number <u>14/680,422</u> filed on <u>04/07/2015</u>			
<b>LEGAL NAME of inventor to whom this substitute statement applies:</b>			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Matthew David Day			
Residence (except for a deceased or legally incapacitated inventor):			
San Francisco	CA	United States of America	
City	State	Country	
Mailing Address (except for a deceased or legally incapacitated inventor):			
425 2nd Street #301			
San Francisco	CA	94107	United States of America
City	State	Zip	Country
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only),			
<input checked="" type="checkbox"/> Assignee,			
<input type="checkbox"/> Person to whom the inventor is under an obligation to assign,			
<input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or			
<input type="checkbox"/> Joint inventor.			

**SUBSTITUTE STATEMENT**

Circumstances permitting execution of this substitute statement:

- Inventor is deceased,
- Inventor is under legal incapacity,
- Inventor cannot be found or reached after diligent effort, or
- Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.
- OR
- An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

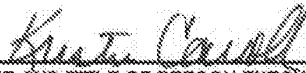
**WARNING:**

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**PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

Name: Kristin Carroll

Date (Optional):

Signature: **APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer:

Applicant Name: LITL LLC

Title of Person Executing  
This Substitute Statement: General Counsel

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

Boston	MA	United States of America
City	State	Country

Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

501 Boylston Street

Boston	MA	02116	United States of America
City	State	Zip	Country

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

Doc code: Oath  
Document Description: Oath or declaration filed

PTO/AIA/02 (07-13)  
Approved for use through 04/30/2017. OMB 0651-0032  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)			
Title of Invention	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT		
This statement is directed to:			
<input type="checkbox"/> The attached application,			
OR			
<input checked="" type="checkbox"/> United States application or PCT international application number <u>14/680,422</u> filed on <u>04/07/2015</u>			
<b>LEGAL NAME of inventor to whom this substitute statement applies:</b>			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Yves Behar			
Residence (except for a deceased or legally incapacitated inventor):			
City	Oakland	State	CA United States of America
Mailing Address (except for a deceased or legally incapacitated inventor):			
5741 Scarborough Drive			
City	Oakland	State	CA 94611 United States of America
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only),			
<input checked="" type="checkbox"/> Assignee,			
<input type="checkbox"/> Person to whom the inventor is under an obligation to assign,			
<input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or			
<input type="checkbox"/> Joint Inventor.			

**SUBSTITUTE STATEMENT**

Circumstances permitting execution of this substitute statement:

- Inventor is deceased,
- Inventor is under legal incapacity,
- Inventor cannot be found or reached after diligent effort, or
- Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

OR

- An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

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**PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

Name: Kristin Carroll

Date (Optional):

Signature: **APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer:

Applicant Name: LITL LLC

Title of Person Executing  
This Substitute Statement: General Counsel

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

City	Boston	State	MA	Country	United States of America
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Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

501 Boylston Street

City	Boston	State	MA	Zip	02116	Country	United States of America
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Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	30481145
<b>Application Number:</b>	14680422
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	5691
<b>Title of Invention:</b>	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
<b>First Named Inventor/Applicant Name:</b>	Yves Behar
<b>Customer Number:</b>	23628
<b>Filer:</b>	Marcus E. Browne/Eileen MacKenzie
<b>Filer Authorized By:</b>	Marcus E. Browne
<b>Attorney Docket Number:</b>	L2039.70004US03
<b>Receipt Date:</b>	26-SEP-2017
<b>Filing Date:</b>	07-APR-2015
<b>Time Stamp:</b>	17:30:31
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	L203970004US03-TRN-MEB.pdf	26362  1ac7f63f531a0d3af6934e75193c0d5b31c771ad	no	1

### Warnings:

<b>Information:</b>					
2	Oath or Declaration filed	L203970004US03-INVDEC-MEB.pdf	2774110 e2dbb8fc8e8e6cd362a5d875d52cf6e5001536f3	no	15
<b>Warnings:</b>					
<b>Information:</b>					
3	Oath or Declaration filed	L203970004US03-SUBSTATE-MEB.pdf	2172519 8d74cc8b42d9a18c97c1d6e0e6e77320e10acbb4	no	28
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>				4972991	
<p><b>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.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>  <b>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.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  <b>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.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  <b>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.</b></p>					





UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

23628 7590 09/22/2017
WOLF GREENFIELD & SACKS, P.C.
600 ATLANTIC AVENUE
BOSTON, MA 02210-2206

EXAMINER

DRAGOESCU, CLAUDIA B

ART UNIT PAPER NUMBER

2141

DATE MAILED: 09/22/2017

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

14/680,422 04/07/2015 Yves Behar L2039.70004US03 5691

TITLE OF INVENTION: SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE

nonprovisional UNDISCOUNTED \$960 \$0 \$0 \$960 12/22/2017

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

**PART B - FEE(S) TRANSMITTAL**

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

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

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

23628                      7590                      09/22/2017  
**WOLF GREENFIELD & SACKS, P.C.**  
 600 ATLANTIC AVENUE  
 BOSTON, MA 02210-2206

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

**Certificate of Mailing or Transmission**

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/680,422	04/07/2015	Yves Behar	L2039.70004US03	5691

TITLE OF INVENTION: SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$0	\$960	12/22/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
DRAGOESCU, CLAUDIA B	2141	715-744000

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

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

2. For printing on the patent front page, list

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

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

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

(A) NAME OF ASSIGNEE \_\_\_\_\_ (B) RESIDENCE: (CITY and STATE OR COUNTRY) \_\_\_\_\_

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

4a. The following fee(s) are submitted:  
 Issue Fee  
 Publication Fee (No small entity discount permitted)  
 Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s): (**Please first reapply any previously paid issue fee shown above**)  
 A check is enclosed.  
 Payment by credit card. Form PTO-2038 is attached.  
 The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)  
 Applicant certifying micro entity status. See 37 CFR 1.29  
 Applicant asserting small entity status. See 37 CFR 1.27  
 Applicant changing to regular undiscounted fee status.

**NOTE:** Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.  
**NOTE:** If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.  
**NOTE:** Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_  
 Typed or printed name \_\_\_\_\_ Registration No. \_\_\_\_\_



UNITED STATES PATENT AND TRADEMARK OFFICE

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

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
Row 1: 14/680,422, 04/07/2015, Yves Behar, L2039.70004US03, 5691
Row 2: 23628, 7590, 09/22/2017, (Empty), (Empty)
Text: WOLF GREENFIELD & SACKS, P.C. 600 ATLANTIC AVENUE BOSTON, MA 02210-2206
Row 3: (Empty), (Empty), (Empty), EXAMINER, (Empty)
Text: DRAGOESCU, CLAUDIA B
Row 4: (Empty), (Empty), (Empty), ART UNIT, PAPER NUMBER
Text: 2141

DATE MAILED: 09/22/2017

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.

## 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.

<b>Notice of Allowability</b>	<b>Application No.</b> 14/680,422	<b>Applicant(s)</b> BEHAR ET AL.	
	<b>Examiner</b> CLAUDIA DRAGOESCU	<b>Art Unit</b> 2141	<b>AIA (First Inventor to File) Status</b> 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 the Amendment of 8/18/17.  
 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 and 6-24. 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](http://www.uspto.gov/patents/init_events/pph/index.jsp) or send an inquiry to [PPHfeedback@uspto.gov](mailto: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. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____ 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material 4. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____ .	5. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 7. <input type="checkbox"/> Other _____.
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/CLAUDIA DRAGOESCU/ Primary Examiner, Art Unit 2141	
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### **DETAILED ACTION**

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA. This action is responsive to the Amendment filed on 8/18/17. Claims 1 and 6-24 are pending in the case. Claims 2-5 are cancelled.

### ***Remarks***

2. Applicant has obtained a Terminal Disclaimer against U.S. Patent 9,003,315 on 8/18/17, therefore the Double Patenting rejections of claims 1-22 is respectfully withdrawn.

### ***Allowable Subject Matter***

3. Claims 1 and 6-24 are allowed. The following is an examiner's statement of reasons for allowance: independent claims 1, 21 and 24, when considered as a whole, are allowable over the prior art of record.

Specifically, the prior art of Miller teaches the Windows Media Center portal, which presents to the user a streamlined interface with only a handful of important options. Windows Media Center presents a plurality of views of content: the Start screen displays all the categories, whereas other views display one category like "Online

Spotlight”, which displays online content, songs, movies, games, photo editing and slide shows.

The prior art of Dunko teaches an orientation sensing mechanism that senses whether the portable mobile communications device is currently in a portrait or landscape orientation; and determines which mode of operation is the default mode for the sensed orientation of the portable mobile communications device. The GUI is then reconfigured for the default mode of operation. Various modes of operation are phone mode (default for portrait orientation), gaming mode (default for landscape orientation), camera mode, music player mode, web browser mode and email mode.

But the claims of the present invention recite a different combination of limitations. Claim 1 recites the following limitations that in combination with the other claim limitations are not taught by the combination of the prior art:

“display a plurality of views of a plurality of visual representations of computer content, wherein the computer content includes at least one of selectable digital content, selectable computer operations and passive digital content;

detect a current computer system configuration where the keyboard is operable to receive input from an operator of the computer system to control the computer system and a second computer system configuration where the keyboard is inoperable to receive input from the operator of the computer system to control the computer system;

select one of the plurality of views for display on the computer system in response to the detected current computer system configuration; and

transition the display component to the selected one of the plurality of views“.

Claim 21 recites the following limitations that in combination with the other claim limitations are not taught by the combination of the prior art:

“identify at least a first computer system configuration where the keyboard is operable to receive input from an operator of the computer system to control the computer system and a second computer system configuration where the keyboard is inoperable to receive input from the operator of the computer system to control the computer system based on sensor input indicating a position of the display component;

select, responsive to the sensor input, a first content view from the plurality of views for the first computer system configuration;

transition, automatically in response to the sensor input, the display component between at least the first content view of the plurality of views and a second content view of the plurality of views;

receive user input via at least one input device integral to or operatively connected with the computer system; and

transition, automatically in response to receiving the user input, the display component from one of the first content view and the second content view to a channel view including a channel selector that displays a sequence of visual representations”.

Claim 24 recites the following limitations that in combination with the other claim limitations are not taught by the combination of the prior art:



“display a plurality of views of a plurality of visual representations of computer content, wherein the computer content includes at least one of selectable digital content, selectable computer operations and passive digital content;

detect a current computer system configuration where the keyboard is positioned to receive input from an operator of the computer system and a second computer system configuration where the keyboard is not positioned to receive input from the operator of the computer system;

select one of the plurality of views for display on the computer system in response to the detected current computer system configuration; and

transition the display component to the selected one of the plurality of views”.

The dependent claims further add limitations to the allowable subject matter of the corresponding independent claims; thus are also allowable. Therefore the claims are allowed over the art because the claims differ in scope that is not seen or suggested by the prior art.

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


***Conclusion***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Claudia Dragoescu whose telephone number is 571-270-7966. The examiner can normally be reached on Monday-Friday: 9:30am-5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Ng can be reached on 571-270-1698. 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.

/CLAUDIA DRAGOESCU/  
Primary Examiner, Art Unit 2141  
September 15, 2017

<b>Search Notes</b>  	<b>Application/Control No.</b>  14680422	<b>Applicant(s)/Patent Under Reexamination</b>  BEHAR ET AL.
	<b>Examiner</b>  CLAUDIA DRAGOESCU	<b>Art Unit</b>  2141

<b>CPC- SEARCHED</b>		
Symbol	Date	Examiner
G06F 3/0481-04847 17/2247-3089	4/7/17	CD
G06F 1/1626 3/04886,0488	9/15/17	CD

<b>CPC COMBINATION SETS - SEARCHED</b>		
Symbol	Date	Examiner


<b>US CLASSIFICATION SEARCHED</b>			
Class	Subclass	Date	Examiner

\* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

<b>SEARCH NOTES</b>		
Search Notes	Date	Examiner
Performed inventor name and assignee search	4/4/17	CD
Performed EAST CPC class search	4/7/17	CD
Performed EAST keyword search	4/4-7/17	CD
Performed updated EAST keyword search and CPC class search of all databases	9/15/17	CD
Performed EAST interference search and CPC class search of all databases	9/15/17	CD

<b>INTERFERENCE SEARCH</b>			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
G06F	1/1626 3/04886,0488	9/15/17	CD


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<b>Issue Classification</b> 	<b>Application/Control No.</b> 14680422	<b>Applicant(s)/Patent Under Reexamination</b> BEHAR ET AL.	
	<b>Examiner</b> CLAUDIA DRAGOESCU	<b>Art Unit</b> 2141	

CPC						
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G06F		1		1632	I	2013-01-01
G06F		1		1677	I	2013-01-01
G06F		1		169	I	2013-01-01
G06F		3		0362	I	2013-01-01
G06F		17		30905	I	2013-01-01
H04L		67		02	I	2013-01-01
H04L		67		10	I	2013-01-01


CPC Combination Sets							
Symbol				Type	Set	Ranking	Version

NONE		<b>Total Claims Allowed:</b>	
(Assistant Examiner)	(Date)	20	
/CLAUDIA DRAGOESCU/ Primary Examiner. Art Unit 2141	9/15/2018	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	4

<b>Issue Classification</b> 	<b>Application/Control No.</b> 14680422	<b>Applicant(s)/Patent Under Reexamination</b> BEHAR ET AL.
	<b>Examiner</b> CLAUDIA DRAGOESCU	<b>Art Unit</b> 2141

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	<b>Total Claims Allowed:</b>	
(Assistant Examiner)	(Date)	20
/CLAUDIA DRAGOESCU/ Primary Examiner. Art Unit 2141	9/15/2018	O.G. Print Claim(s)
(Primary Examiner)	(Date)	1
		O.G. Print Figure
		4

<b>Issue Classification</b> 	<b>Application/Control No.</b> 14680422	<b>Applicant(s)/Patent Under Reexamination</b> BEHAR ET AL.
	<b>Examiner</b> CLAUDIA DRAGOESCU	<b>Art Unit</b> 2141

<input type="checkbox"/> <b>Claims renumbered in the same order as presented by applicant</b> <input type="checkbox"/> <b>CPA</b> <input checked="" type="checkbox"/> <b>T.D.</b> <input type="checkbox"/> <b>R.1.47</b>															
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	2	14	18												
	3	15	19												
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	5	17	21												
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3	7	19	23												
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9	13														
10	14														
11	15														
12	16														

NONE			<b>Total Claims Allowed:</b>	
(Assistant Examiner)	(Date)	20		
/CLAUDIA DRAGOESCU/ Primary Examiner. Art Unit 2141	9/15/2018	O.G. Print Claim(s)	O.G. Print Figure	
(Primary Examiner)	(Date)	1	4	

**EAST Search History**

**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	12/416496.app.	US-PGPUB; USPAT	OR	ON	2011/06/05 13:12
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S4	36	(Oakley near Nicholas).IN.	US-PGPUB; USPAT	OR	ON	2011/08/18 13:41
S5	17	(yanagisawa near kazunori).in.	US-PGPUB; USPAT	OR	ON	2011/08/18 14:10
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S9	481	S8 and (GUI (graphical near user near interface)).AB,TI.	US-PGPUB; USPAT	OR	ON	2011/08/18: 16:47
S14	244	S13 and (@ad<"20090501")	US-PGPUB; USPAT	OR	ON	2011/08/18: 16:48
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S15	903	(AOL (America near online)).as.	US-PGPUB; USPAT	OR	ON	2011/08/18: 16:52
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S48	28	(windows near media near center) and microsoft.as.	US-PGPUB; USPAT	OR	ON	2011/08/19 08:51
S49	24	(glein ostojic).in. and microsoft.as.	US-PGPUB; USPAT	OR	ON	2011/08/19 09:22
S50	18	S49 not S48	US-PGPUB; USPAT	OR	ON	2011/08/19 09:23
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S54	67	S53 and (@ad<"20080401")	US-PGPUB; USPAT	OR	ON	2011/08/19 10:02
S53	81	S52 and portal.ab.ti.	US-PGPUB; USPAT	OR	ON	2011/08/19 10:02
S52	40063	microsoft.as.	US-PGPUB; USPAT	OR	ON	2011/08/19 10:02
S55	47	(windows near10 media near10 center) and microsoft.as.	US-PGPUB; USPAT	OR	ON	2011/08/19 10:38
S56	739	(media near10 center) and microsoft.as.	US-PGPUB; USPAT	OR	ON	2011/08/19 10:39
S57	1	"20090113307"	US-PGPUB; USPAT	OR	ON	2011/08/19 10:40
S58	739	(Media near10 Center) and microsoft.as.	US-PGPUB; USPAT	OR	ON	2011/08/19 10:41
S60	76	(content and portal).TI.	US-PGPUB; USPAT	OR	ON	2011/08/20 12:06
S59	41114	content and portal	US-PGPUB; USPAT	OR	ON	2011/08/20 12:06
S62	18	(Media near10 Center).AB.TI. and Microsoft.as.	US-PGPUB; USPAT	OR	ON	2011/08/20 12:16
S61	0	(Media near10 Center).TI. and microsoft.as.	US-PGPUB; USPAT	OR	ON	2011/08/20 12:16
S63	0	("2010/0131977").URPN.	USPAT	OR	ON	2011/08/20 12:29
S64	0	(Windows near10 Media near10 Center).AB.TI. and Microsoft.as.	US-PGPUB; USPAT	OR	ON	2011/08/20 12:32
S66	0	(Windows with media with center).AB.TI. and Microsoft.as.	US-PGPUB; USPAT	OR	ON	2011/08/20 12:33

S65	0	(Windows with Media with Center).AB, TI. and Microsoft.as.	US-PGPUB; USPAT	OR	ON	2011/08/20 12:33
S67	52	(Windows with media with center).BI. and Microsoft.as.	US-PGPUB; USPAT	OR	ON	2011/08/20 12:34
S69	91	(Yves near Behar).IN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/20 13:03
S68	1	12/416496.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/20 13:03
S70	5	"12/170,951"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/20 13:04
S72	1	"5796575".pn.	USPAT	OR	ON	2011/08/22 12:18
S71	36	"5796575"	USPAT	OR	ON	2011/08/22 12:18
S73	1	"6,295,038".pn.	USPAT	OR	ON	2011/08/22 12:20
S74	1	"20060264243".pn.	US-PGPUB; USPAT	OR	ON	2011/08/22 12:25
S75	1	"20070247446".pn.	US-PGPUB; USPAT	OR	ON	2011/08/22 13:07
S78	1	"20060112351".pn.	US-PGPUB; USPAT	OR	ON	2011/08/22 15:02
S77	1	"20060209022".pn.	US-PGPUB; USPAT	OR	ON	2011/08/22 15:02
S76	1	"20080024465".pn.	US-PGPUB; USPAT	OR	ON	2011/08/22 15:02
S79	1	"20080168404".pn.	US-PGPUB; USPAT	OR	ON	2011/08/25 09:38
S80	1	"20070103454".pn.	US-PGPUB; USPAT	OR	ON	2011/08/25 09:39
S81	1	"20080168367".pn.	US-PGPUB; USPAT	OR	ON	2011/08/25 09:40
S82	40	cannistraro.in.	US-PGPUB; USPAT	OR	ON	2011/08/25 09:41
S84	97	((media near player) and (scroll\$wheel click\$wheel)).BI.	US-PGPUB; USPAT	OR	ON	2011/08/25 09:43
S83	0	((media near player) and (scroll\$wheel click\$wheel)).AB, TI.	US-PGPUB; USPAT	OR	ON	2011/08/25 09:43
S86	24	((media near player) and ((scroll\$wheel click\$wheel) same (list navigat\$3))).BI.	US-PGPUB; USPAT	OR	ON	2011/08/25 09:44
S85	69	((media near player) and (scroll\$wheel	US-PGPUB;	OR	ON	2011/08/25

		click\$wheel) and (list navigat\$3)).Bl.	USPAT			09:44
S88	5595	S87 and (arrow button inndicator)	USPAT	OR	ON	2011/08/26 11:12
S87	8563	(Web near browser) and history	USPAT	OR	ON	2011/08/26 11:12
S90	25	S88 and (back near arrow)	USPAT	OR	ON	2011/08/26 11:13
S89	6400	S87 and (arrow button indicator)	USPAT	OR	ON	2011/08/26 11:13
S91	12	"5926364".pn. "6144358".pn. "6341061".pn. "6437974".pn. "6492974".pn. "6882335".pn. "5436954".pn. "7035665".pn. "7869834".pn. "20060238439".pn. "20030107603".pn. "20050083642".pn.	US-PGPUB; USPAT	OR	ON	2012/07/01 07:49
S92	1	12/416496.app. and (state with view)	US-PGPUB; USPAT	OR	ON	2012/07/01 12:27
S94	398	S93 and "715".clas.	US-PGPUB; USPAT	OR	ON	2012/07/01 15:00
S93	1147	(thumbnail with (Web near page)).Bl.	US-PGPUB; USPAT	OR	ON	2012/07/01 15:00
S96	57	(thumbnail with (Web near page)).AB, TI.	US-PGPUB; USPAT	OR	ON	2012/07/01 15:01
S95	310	S94 and (@ad<"20090401")	US-PGPUB; USPAT	OR	ON	2012/07/01 15:01
S97	55	S96 and (@ad<"20090401")	US-PGPUB; USPAT	OR	ON	2012/07/01 15:02
S99	1	S97 and S98	US-PGPUB; USPAT	OR	ON	2012/07/01 15:26
S98	28	(pre\$view with (Web near page)).AB, TI.	US-PGPUB; USPAT	OR	ON	2012/07/01 15:26
S100	0	(pre\$view and (Web near page) and portal).AB, TI.	US-PGPUB; USPAT	OR	ON	2012/07/01 15:27
S102	2141	(pre\$view and (Web near page) and portal).Bl.	US-PGPUB; USPAT	OR	ON	2012/07/01 15:28
S101	13	(pre\$view and portal).AB, TI.	US-PGPUB; USPAT	OR	ON	2012/07/01 15:28
S103	960	(pre\$view with (Web near page)).Bl.	US-PGPUB; USPAT	OR	ON	2012/07/01 15:29
S105	23761	((Web with page) brows\$3).AB, TI. and ((tool image object menu icon) appear\$3 (focus\$3 hover\$3)).Bl.	US-PGPUB; USPAT	OR	ON	2012/07/01 15:31
S104	20268	((Web with page) browser).AB, TI. and ((tool image object menu icon) appear\$3 (focus\$3 hover\$3)).Bl.	US-PGPUB; USPAT	OR	ON	2012/07/01 15:31
S109	61	S108 and "715".clas.	US-PGPUB; USPAT	OR	ON	2012/07/01 15:32
S108	126	((Web with page) brows\$3).AB, TI. and ((tool image object menu icon) with appear\$3 with (focus\$3 hover\$3)).Bl.	US-PGPUB; USPAT	OR	ON	2012/07/01 15:32
S107	5459	S106 and (@ad<"20090401")	US-PGPUB; USPAT	OR	ON	2012/07/01 15:32
S106	6644	S105 and "715".clas.	US-PGPUB; USPAT	OR	ON	2012/07/01 15:32
S110	50	S109 and (@ad<"20090401")	US-PGPUB;	OR	ON	2012/07/01

			USPAT			15:33
S111	114	((Web with page) brows\$3).AB, TI. and ((window pane panel thubnail frame image object menu icon) with (enlarg\$3 increas\$3 grow\$3 zoom\$3) with (focus\$3 hover\$3)).Bl.	US-PGPUB; USPAT	OR	ON	2012/07/01 16:55
S113	46	S112 and "715".clas.	US-PGPUB; USPAT	OR	ON	2012/07/01 16:56
S112	93	S111 and (@ad<"20090501")	US-PGPUB; USPAT	OR	ON	2012/07/01 16:56
S114	86	(US-20040001049-\$ or US-20050221865-\$ or US-20050210399-\$ or US-20100174993-\$ or US-20050257400-\$ or US-20060230021-\$ or US-20020049655-\$ or US-20080077614-\$ or US-20020165846-\$ or US-20050182742-\$ or US-20090187837-\$ or US-20070028270-\$ or US-20070028268-\$ or US-20070028267-\$ or US-20070028183-\$ or US-20080163127-\$ or US-20060224575-\$ or US-20060224962-\$ or US-20110191163-\$ or US-20080052637-\$ or US-20080168387-\$ or US-20070098350-\$ or US-20050097007-\$ or US-20090113307-\$ or US-20090113310-\$ or US-20070127642-\$).did. or (US-20090063502-\$ or US-20040167896-\$ or US-20070124701-\$ or US-20080168495-\$ or US-20090144157-\$ or US-20020095387-\$ or US-20060026213-\$ or US-20100131977-\$ or US-20090327222-\$ or US-20060264243-\$ or US-20080024465-\$ or US-20060209022-\$ or US-20060112351-\$ or US-20080168404-\$ or US-20070103454-\$ or US-20080168367-\$ or US-20090307633-\$ or US-20070155434-\$ or US-20080168382-\$ or US-20060238439-\$ or US-20050083642-\$ or US-20070240076-\$ or US-20030074416-\$ or US-20080022229-\$ or US-20040064471-\$ or US-20060277477-\$ or US-20080134093-\$).did. or (US-20070124693-\$ or US-20060212806-\$ or US-20090150826-\$ or US-20090204920-\$).did. or (US-6661426-\$ or US-7467356-\$ or US-7178111-\$ or US-7958441-\$ or US-7149960-\$ or US-7925968-\$ or US-7698407-\$ or US-7987421-\$ or US-5796575-\$ or US-6295038-\$ or US-7958042-\$ or US-7765493-\$ or US-7359863-\$ or US-7904373-\$ or US-6341061-\$ or US-5926364-\$ or US-7035665-\$ or US-6437974-\$ or US-6144358-\$ or US-5436954-\$ or US-6492974-\$ or US-6882335-\$ or US-7869834-\$ or US-6275829-\$ or US-7703013-\$ or US-8122372-\$).did. or (US-20090322790-\$ or US-20040228076-\$ or US-	US-PGPUB; USPAT; DERWENT	OR	ON	2012/07/02 14:39

		20050210399-\$).did.				
S115	8	S114 and ((updat\$ refresh\$) same (thumbnail)).Bl.	US-PGPUB; USPAT	OR	ON	2012/07/02 14:40
S117	7	S116 and thumbnail	US-PGPUB; USPAT	OR	ON	2012/07/02 14:57
S116	197	("5200913"   "6005767"   "6659516"   "7072179"   "20020021258"   "20040228076"   "20060264243"   "20080284738"   "5515345"   "5987704"   "6067224"   "6628267"   "6661426"   "6819304"   "7428142"   "7522946"   "D463797"   "D479708"   "D528993"   "6343006"   "20080042987"   "3468576"   "4939514"   "5796575"   "6377444"   "6697055"   "20030109232"   "6222507"   "6302612"   "6642909"   "6859219"   "7138962"   "D495694"   "D504128"   "D513509"   "D517541"   "20050146845"   "20080062625"   "20050210399"   "20090300511"   "6275376"   "6510049"   "6829140"   "20050041378"   "5712760"   "6275376"   "6829140"   "D333636"   "D462069"   "D544846"   "D605635"   "20070138806"   "20070182663"   "6223393"   "6323846"   "6661426"   "6944012"   "D416003"   "20040203535"   "5793355"   "5900848"   "6266236"   "6327482"   "D395868"   "D528541"   "20020010707"   "20050257400"   "6343006"   "6771494"   "7061472"   "7239508"   "20050063145"   "20050128695"   "20050210399"   "20050282596"   "20060268500"   "7061472"   "D491177"   "D516552"   "D534531"   "D593086"   "D593091"   "20060126284"   "20090244012"   "5268817"   "5825352"   "5841631"   "6266236"   "6628267"   "6788527"   "6963485"   "7250207"   "6665175"   "6771494"   "D399526"   "D452238"   "D476326"   "D491936"   "D494162"   "D518042"   "D581371"   "20090322790"   "5949643"   "5987704"   "5790371"   "6005767"   "6659516"   "D391927"   "D392944"   "D535292"   "20070247446"   "20090244832"   "6262885"   "20020005818"   "20030048595"   "20050018396"   "20090275366"   "20100174993"   "5547698"   "6295038"   "6464195"   "D495674"   "D512997"   "D523429"   "D593085"   "20040001049"   "7467356").FN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/07/02 14:57
S118	70	(thumbnail and (Web near page)).AB, TI. and (generat\$ refresh\$ updat\$ cach\$).Bl.	US-PGPUB; USPAT	OR	ON	2012/07/02 15:12
S119	64	(thumbnail and (Web near page)).AB, TI. and ((generat\$ refresh\$ updat\$ cach\$) same thumbnail ).Bl.	US-PGPUB; USPAT	OR	ON	2012/07/02 15:13

S121	33	(Niels near Dongen).in.	US-PGPUB; USPAT	OR	ON	2012/11/22 18:52
S120	0	(Niels near vanDongen).in.	US-PGPUB; USPAT	OR	ON	2012/11/22 18:52
S122	37	(hendry near ian).in.	US-PGPUB; USPAT	OR	ON	2012/11/22 19:11
S123	1466	(chang\$3 same (device laptop) same configuration same display same content).Bl.	US-PGPUB; USPAT	OR	ON	2012/11/22 19:24
S124	112	(chang\$3 with (device laptop) with configuration with display with content).Bl.	US-PGPUB; USPAT	OR	ON	2012/11/22 19:25
S126	61	S124 and (@ad<"20080401")	US-PGPUB; USPAT	OR	ON	2012/11/22 19:30
S125	72	S124 and (@ad<"20090501")	US-PGPUB; USPAT	OR	ON	2012/11/22 19:30
S127	11	S123 and qualcomm.as.	US-PGPUB; USPAT	OR	ON	2012/11/22 19:40
S128	1	12/170951.app.	US-PGPUB; USPAT	OR	ON	2012/11/22 19:43
S129	0	S123 and S128	US-PGPUB; USPAT	OR	ON	2012/11/22 19:50
S131	11	("20030050874"   "20040011866"   "20090132681"   "20090307118"   "20090312000"   "20100211504"   "20110251950"   "5477038"   "5936523"   "6285991"   "8040233").FN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/11/22 19:59
S130	1	("8040233").URPN.	USPAT	OR	ON	2012/11/22 19:59
S133	11	("20020107027"   "20030088496"   "20080045207"   "20080140868"   "20090006194"   "20090112693"   "20090150217"   "20090197616"   "20090300525"   "7376414"   "7542816").FN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/11/22 20:03
S132	1	("8040233").URPN.	USPAT	OR	ON	2012/11/22 20:03
S134	50	("6133898"   "20100064536"   "20110216064"   "20100053089"   "6331840"   "6643124"   "20100060547"   "20100085274"   "20090296331"   "20040203520"   "20100085382"   "7028410"   "7453418"   "20100064244"   "20060026243"   "20020158811"   "20060284785"   "7958644"   "6573913"   "20110126141"   "7145593"   "20050099361"   "20050122671"   "7210236"   "7231609"   "20110210922"   "6252563"   "20030095373"   "20080259095"   "20090193351"   "20100007576"   "8068121"   "20050283988"   "20070268264"   "20100060664"   "20070041151"   "20060264243"   "20110109526"   "7637024"   "20040108968"   "20070263081"   "6466369"	US-PGPUB; USPAT	OR	ON	2012/11/22 20:13

		"20050235458"   "20070279315"   "20070089311"   "20100060664"   "20060161278"   "20100066643"   "20100079355"   "20110109526"   "20070046561"   "20100039350").PN.				
S135	443	(automatically same chang\$3 same device laptop) same configuration same display same content).Bl.	US-PGPUB; USPAT	OR	ON	2012/11/22 20:14
S136	176	S135 and (@ad<"20080401")	US-PGPUB; USPAT	OR	ON	2012/11/22 20:15
S137	1	"7782274".pn.	US-PGPUB; USPAT	OR	ON	2012/11/23 11:29
S139	74	("20010054986"   "20020021622"   "20020128055"   "20020135535"   "20020140628"   "20030020671"   "20030043087"   "20030071800"   "20030071832"   "20030098857"   "20030109286"   "20030144034"   "20030160735"   "20030160754"   "20030161094"   "20030218577"   "20030218712"   "20030218860"   "20040036810"   "20040036818"   "20040150581"   "20040217423"   "20050050367"   "20050088463"   "20050099361"   "20050134524"   "20050146845"   "20050162511"   "20050248501"   "20050285811"   "20060044215"   "20060088359"   "20060126284"   "20060146488"   "20060232496"   "20070279315"   "4110792"   "4141000"   "5128662"   "5379461"   "5467102"   "5790371"   "5949643"   "5960442"   "6018898"   "6057814"   "6076093"   "6222507"   "6320591"   "6327482"   "6343006"   "6377324"   "6386974"   "6493002"   "6532146"   "6628244"   "6643124"   "6722976"   "6750844"   "6762929"   "6771237"   "6807275"   "6819304"   "6844865"   "6850780"   "6859219"   "6919864"   "6931265"   "7091926"   "7092247"   "7095387"   "7138962"   "7196676"   "7371177").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/11/23 11:33
S138	0	("7782274").URPN.	USPAT	OR	ON	2012/11/23 11:33
S140	109	(behar near yves).in.	US-PGPUB; USPAT; USOCR	OR	ON	2012/11/23 11:43
S141	1	"7932882".pn.	US-PGPUB; USPAT	OR	ON	2012/11/26 07:21
S142	1044	lenovo.as.	US-PGPUB; USPAT	OR	ON	2012/11/26 07:38
S146	0	S142 and (laptop and tent and mode).Bl.	US-PGPUB; USPAT	OR	ON	2012/11/26 07:41
S145	150	S142 and (laptop and mode).Bl.	US-PGPUB; USPAT	OR	ON	2012/11/26 07:41
S144	347	S142 and (laptop ).Bl.	US-PGPUB; USPAT	OR	ON	2012/11/26 07:41
S143	0	S142 and (laptop and tent and stand and mode).Bl.	US-PGPUB; USPAT	OR	ON	2012/11/26 07:41



S148	8	S142 and (laptop and mode).AB, TI.	US-PGPUB; USPAT	OR	ON	2012/11/26 07:42
S147	21	S142 and (laptop and stand and mode).BI.	US-PGPUB; USPAT	OR	ON	2012/11/26 07:42
S149	9	S142 and (laptop and (portrait landscape)).BI.	US-PGPUB; USPAT	OR	ON	2012/11/26 07:50
S150	137	S142 and (display).AB, TI.	US-PGPUB; USPAT	OR	ON	2012/11/26 07:55
S151	29	S150 and (chang\$5 switch\$5 conver\$5).AB, TI.	US-PGPUB; USPAT	OR	ON	2012/11/26 07:57
S155	36	S154 not S151	US-PGPUB; USPAT	OR	ON	2012/11/26 08:19
S154	40	S150 and (acceler\$7 orient\$7 position configur\$7).AB, TI.	US-PGPUB; USPAT	OR	ON	2012/11/26 08:19
S153	124	S150 and (acceler\$7 orient\$7 position configur\$7).BI.	US-PGPUB; USPAT	OR	ON	2012/11/26 08:19
S152	924	S142 and (acceler\$7 orient\$7 position configur\$7).BI.	US-PGPUB; USPAT	OR	ON	2012/11/26 08:19
S157	7	("20070046630"   "20080036714"   "20090091542"   "20090201257"   "20090284474"   "6396506"   "7310082").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/11/26 08:37
S156	0	("7932882").URPN.	USPAT	OR	ON	2012/11/26 08:37
S158	1	"7479949".pn.	US-PGPUB; USPAT	OR	ON	2012/11/30 07:50
S159	6	mobile.ab, ti. and (tilt\$3 same flip\$5 same page).BI.	US-PGPUB; USPAT	OR	ON	2012/11/30 08:36
S160	1	12/394186.app.	US-PGPUB; USPAT	OR	ON	2012/11/30 09:00
S161	1	"7782274".pn.	US-PGPUB; USPAT	OR	ON	2013/04/29 20:25
S162	0	("2010/0064536").URPN.	USPAT	OR	ON	2013/04/29 21:04
S163	1	12/170951.app. 12/170939.app. 61/041365.app.	USPAT	OR	ON	2013/04/29 21:06
S164	1	12/416496.app. and (sensor same (display near configuration)).BI.	US-PGPUB; USPAT	OR	ON	2013/04/29 21:43
S165	475	(automatically same chang\$3 same (device laptop) same configuration same display same content).BI.	US-PGPUB; USPAT	OR	ON	2013/04/30 15:28
S166	475	(automatically same chang\$3 same (device laptop) same configuration same display same content).BI.	US-PGPUB; USPAT	OR	ON	2013/04/30 15:35
S167	1	"20080224948".pn.	US-PGPUB; USPAT	OR	ON	2013/04/30 15:36
S168	0	("2010/0064536").URPN.	USPAT	OR	ON	2013/04/30 15:55
S169	475	(automatically same chang\$3 same (device laptop) same configuration same display same content).BI.	US-PGPUB; USPAT	OR	ON	2013/04/30 16:07
S170	1	"20070279315".pn.	US-PGPUB; USPAT	OR	ON	2013/04/30 16:20
S171	1	"7479949".pn.	US-PGPUB; USPAT	OR	ON	2013/04/30

			USPAT			16:24
S172	242	(portrait same landscape same acceler\$7).Bl. and apple.as.	US-PGPUB; USPAT	OR	ON	2013/04/30 16:25
S173	60	S172 and (@ad<"20080401")	US-PGPUB; USPAT	OR	ON	2013/04/30 17:23
S175	20	S174 and (@ad<"20080401")	US-PGPUB; USPAT	OR	ON	2013/04/30 17:43
S174	26	(automatically same chang\$3 same (device laptop) same configuration same display same content same sensor).Bl.	US-PGPUB; USPAT	OR	ON	2013/04/30 17:43
S176	135	(US-20040001049-\$ or US-20050221865-\$ or US-20050210399-\$ or US-20100174993-\$ or US-20050257400-\$ or US-20060230021-\$ or US-20020049655-\$ or US-20080077614-\$ or US-20020165846-\$ or US-20050182742-\$ or US-20090187837-\$ or US-20070028270-\$ or US-20070028268-\$ or US-20070028267-\$ or US-20070028183-\$ or US-20080163127-\$ or US-20060224575-\$ or US-20060224962-\$ or US-20110191163-\$ or US-20080052637-\$ or US-20080168387-\$ or US-20070098350-\$ or US-20050097007-\$ or US-20090113307-\$ or US-20090113310-\$ or US-20070127642-\$).did. or (US-20090063502-\$ or US-20040167896-\$ or US-20070124701-\$ or US-20080168495-\$ or US-20090144157-\$ or US-20020095387-\$ or US-20060026213-\$ or US-20100131977-\$ or US-20090327222-\$ or US-20060264243-\$ or US-20080024465-\$ or US-20060209022-\$ or US-20060112351-\$ or US-20080168404-\$ or US-20070103454-\$ or US-20080168367-\$ or US-20090307633-\$ or US-20070155434-\$ or US-20080168382-\$ or US-20060238439-\$ or US-20050083642-\$ or US-20070240076-\$ or US-20030074416-\$ or US-20080022229-\$ or US-20040064471-\$ or US-20060277477-\$ or US-20080134093-\$).did. or (US-20070124693-\$ or US-20060212806-\$ or US-20090150826-\$ or US-20090204920-\$ or US-20060085743-\$ or US-20050216850-\$ or US-20050243019-\$ or US-20100091025-\$ or US-20100064536-\$ or US-20100060664-\$ or US-20100064244-\$ or US-20100066643-\$ or US-20100079355-\$ or US-20100085274-\$ or US-20100085382-\$ or US-20110126141-\$ or US-20110216064-\$ or US-20080140868-\$ or US-20080045207-\$ or US-20070279315-\$ or US-20040209230-\$ or US-20030120750-\$ or US-20110246871-\$	US-PGPUB; USPAT; DERWENT	OR	ON	2013/04/30 17:58

		or US-20110169749-\$ or US-20120008270-\$ or US-20120223892-\$ or US-20090037825-\$).did. or (US-20100134409-\$ or US-20090213035-\$ or US-20120062475-\$ or US-20120169618-\$ or US-20090091542-\$ or US-20070046630-\$ or US-20050093868-\$ or US-20090265627-\$ or US-20090303676-\$ or US-20080224948-\$ or US-20090023395-\$).did. or (US-6661426-\$ or US-7467356-\$ or US-7178111-\$ or US-7958441-\$ or US-7149960-\$ or US-7925968-\$ or US-7698407-\$ or US-7987421-\$ or US-5796575-\$ or US-6295038-\$ or US-7958042-\$ or US-7765493-\$ or US-7359863-\$ or US-7904373-\$ or US-6341061-\$ or US-5926364-\$ or US-7035665-\$ or US-6437974-\$ or US-6144358-\$ or US-5436954-\$ or US-6492974-\$ or US-6882335-\$ or US-7869834-\$ or US-6275829-\$ or US-7703013-\$ or US-8122372-\$).did. or (US-7814425-\$ or US-6693652-\$ or US-7380116-\$ or US-6282646-\$ or US-5682529-\$ or US-8040233-\$ or US-8253654-\$ or US-7747970-\$ or US-7782274-\$ or US-7932882-\$ or US-7307668-\$ or US-7564425-\$ or US-7081886-\$ or US-7310082-\$ or US-7532196-\$).did. or (US-20090322790-\$ or US-20040228076-\$ or US-20050210399-\$).did.				
S178	17	S176 and (sensor same configur\$7 same (chang\$3 adapt\$7 modifi\$7) same display).Bl.	US-PGPUB; USPAT	OR	ON	2013/04/30 18:00
S177	46	S176 and (sensor and configur\$7 and (chang\$3 adapt\$7 modifi\$7) and display).Bl.	US-PGPUB; USPAT	OR	ON	2013/04/30 18:00
S179	7	S178 and (@ad<"20080401")	US-PGPUB; USPAT	OR	ON	2013/04/30 18:01
S180	1	"20060017692".pn.	US-PGPUB; USPAT	OR	ON	2013/04/30 18:26
S183	1	"7756928".pn.	US-PGPUB; USPAT	OR	ON	2013/05/01 19:23
S184	1	"6242853"	JPO; DERWENT	OR	ON	2013/11/25 10:38
S185	14177	hitachi.as. and (@pd<"19941001" and @pd>"19940901")	JPO; DERWENT	OR	ON	2013/11/25 10:40
S186	14177	hitachi.as. and (@pd<"19941001") and (@pd>"19940901")	JPO; DERWENT	OR	ON	2013/11/25 10:41
S187	1	hitachi.as. and (@pd="19940905")	JPO; DERWENT	OR	ON	2013/11/25 10:53
S188	29	hitachi.as. and (SHIMURA near NOBUYUKI).in.	JPO; DERWENT	OR	ON	2013/11/25 10:59
S189	1	"06242853".pn.	JPO; DERWENT	OR	ON	2013/11/25 11:01
S190	1	12/416496.app. and (organiz\$7 same (home near view) same (application	US-PGPUB; USPAT	OR	ON	2013/12/09 09:18

		content)). Bl.				
S191	1	12/416496.app. and ((chang\$3 differen\$3) same configur\$5). Bl.	US-PGPUB; USPAT	OR	ON	2013/12/11 09:00
S192	136	(US-20040001049-\$ or US- 20050221865-\$ or US-20050210399-\$ or US-20100174993-\$ or US- 20050257400-\$ or US-20060230021-\$ or US-20020049655-\$ or US- 20080077614-\$ or US-20020165846-\$ or US-20050182742-\$ or US- 20090187837-\$ or US-20070028270-\$ or US-20070028268-\$ or US- 20070028267-\$ or US-20070028183-\$ or US-20080163127-\$ or US- 20060224575-\$ or US-20060224962-\$ or US-20110191163-\$ or US- 20080052637-\$ or US-20080168387-\$ or US-20070098350-\$ or US- 20050097007-\$ or US-20090113307-\$ or US-20090113310-\$ or US- 20070127642-\$).did. or (US- 20090063502-\$ or US-20040167896-\$ or US-20070124701-\$ or US- 20080168495-\$ or US-20090144157-\$ or US-20020095387-\$ or US- 20060026213-\$ or US-20100131977-\$ or US-20090327222-\$ or US- 20060264243-\$ or US-20080024465-\$ or US-20060209022-\$ or US- 20060112351-\$ or US-20080168404-\$ or US-20070103454-\$ or US- 20080168367-\$ or US-20090307633-\$ or US-20070155434-\$ or US- 20080168382-\$ or US-20060238439-\$ or US-20050083642-\$ or US- 20070240076-\$ or US-20030074416-\$ or US-20080022229-\$ or US- 20040064471-\$ or US-20060277477-\$ or US-20080134093-\$).did. or (US- 20070124693-\$ or US-20060212806-\$ or US-20090150826-\$ or US- 20090204920-\$ or US-20060085743-\$ or US-20050216850-\$ or US- 20050243019-\$ or US-20100091025-\$ or US-20100064536-\$ or US- 20100060664-\$ or US-20100064244-\$ or US-20100066643-\$ or US- 20100079355-\$ or US-20100085274-\$ or US-20100085382-\$ or US- 20110126141-\$ or US-20110216064-\$ or US-20080140868-\$ or US- 20080045207-\$ or US-20070279315-\$ or US-20040209230-\$ or US- 20030120750-\$ or US-20110246871-\$ or US-20110169749-\$ or US- 20120008270-\$ or US-20120223892-\$ or US-20090037825-\$).did. or (US- 20100134409-\$ or US-20090213035-\$ or US-20120062475-\$ or US- 20120169618-\$ or US-20090091542-\$ or US-20070046630-\$ or US- 20050093868-\$ or US-20090265627-\$ or US-20090303676-\$ or US- 20080224948-\$ or US-20090023395-\$	US-PGPUB; USPAT; DERWENT	OR	ON	2013/12/11 09:14

		<p>or US-20060017692-\$).did. or (US-6661426-\$ or US-7467356-\$ or US-7178111-\$ or US-7958441-\$ or US-7149960-\$ or US-7925968-\$ or US-7698407-\$ or US-7987421-\$ or US-5796575-\$ or US-6295038-\$ or US-7958042-\$ or US-7765493-\$ or US-7359863-\$ or US-7904373-\$ or US-6341061-\$ or US-5926364-\$ or US-7035665-\$ or US-6437974-\$ or US-6144358-\$ or US-5436954-\$ or US-6492974-\$ or US-6882335-\$ or US-7869834-\$ or US-6275829-\$ or US-7703013-\$ or US-8122372-\$).did. or (US-7814425-\$ or US-6693652-\$ or US-7380116-\$ or US-6282646-\$ or US-5682529-\$ or US-8040233-\$ or US-8253654-\$ or US-7747970-\$ or US-7782274-\$ or US-7932882-\$ or US-7307668-\$ or US-7564425-\$ or US-7081886-\$ or US-7310082-\$ or US-7532196-\$).did. or (US-20090322790-\$ or US-20040228076-\$ or US-20050210399-\$).did.</p>				
S195	137	<p>(US-20040001049-\$ or US-20050221865-\$ or US-20050210399-\$ or US-20100174993-\$ or US-20050257400-\$ or US-20060230021-\$ or US-20020049655-\$ or US-20080077614-\$ or US-20020165846-\$ or US-20050182742-\$ or US-20090187837-\$ or US-20070028270-\$ or US-20070028268-\$ or US-20070028267-\$ or US-20070028183-\$ or US-20080163127-\$ or US-20060224575-\$ or US-20060224962-\$ or US-20110191163-\$ or US-20080052637-\$ or US-20080168387-\$ or US-20070098350-\$ or US-20050097007-\$ or US-20090113307-\$ or US-20090113310-\$ or US-20070127642-\$).did. or (US-20090063502-\$ or US-20040167896-\$ or US-20070124701-\$ or US-20080168495-\$ or US-20090144157-\$ or US-20020095387-\$ or US-20060026213-\$ or US-20100131977-\$ or US-20090327222-\$ or US-20060264243-\$ or US-20080024465-\$ or US-20060209022-\$ or US-20060112351-\$ or US-20080168404-\$ or US-20070103454-\$ or US-20080168367-\$ or US-20090307633-\$ or US-20070155434-\$ or US-20080168382-\$ or US-20060238439-\$ or US-20050083642-\$ or US-20070240076-\$ or US-20030074416-\$ or US-20080022229-\$ or US-20040064471-\$ or US-20060277477-\$ or US-20080134093-\$).did. or (US-20070124693-\$ or US-20060212806-\$ or US-20090150826-\$ or US-20090204920-\$ or US-20060085743-\$ or US-20050216850-\$ or US-</p>	US-PGPUB; OR USPAT; DERWENT	OR	ON	2013/12/11 09:17

		20050243019-\$ or US-20100091025-\$ or US-20100064536-\$ or US-20100060664-\$ or US-20100064244-\$ or US-20100066643-\$ or US-20100079355-\$ or US-20100085274-\$ or US-20100085382-\$ or US-20110126141-\$ or US-20110216064-\$ or US-20080140868-\$ or US-20080045207-\$ or US-20070279315-\$ or US-20040209230-\$ or US-20030120750-\$ or US-20110246871-\$ or US-20110169749-\$ or US-20120008270-\$ or US-20120223892-\$ or US-20090037825-\$).did. or (US-20100134409-\$ or US-20090213035-\$ or US-20120062475-\$ or US-20120169618-\$ or US-20090091542-\$ or US-20070046630-\$ or US-20050093868-\$ or US-20090265627-\$ or US-20090303676-\$ or US-20080224948-\$ or US-20090023395-\$ or US-20060017692-\$ or US-20080174570-\$).did. or (US-6661426-\$ or US-7467356-\$ or US-7178111-\$ or US-7958441-\$ or US-7149960-\$ or US-7925968-\$ or US-7698407-\$ or US-7987421-\$ or US-5796575-\$ or US-6295038-\$ or US-7958042-\$ or US-7765493-\$ or US-7359863-\$ or US-7904373-\$ or US-6341061-\$ or US-5926364-\$ or US-7035665-\$ or US-6437974-\$ or US-6144358-\$ or US-5436954-\$ or US-6492974-\$ or US-6882335-\$ or US-7869834-\$ or US-6275829-\$ or US-7703013-\$ or US-8122372-\$).did. or (US-7814425-\$ or US-6693652-\$ or US-7380116-\$ or US-6282646-\$ or US-5682529-\$ or US-8040233-\$ or US-8253654-\$ or US-7747970-\$ or US-7782274-\$ or US-7932882-\$ or US-7307668-\$ or US-7564425-\$ or US-7081886-\$ or US-7310082-\$ or US-7532196-\$).did. or (US-20090322790-\$ or US-20040228076-\$ or US-20050210399-\$).did.				
S196	20	S195 and zoom\$3.BI.	US-PGPUB; USPAT	OR	ON	2013/12/11 09:31
S197	1	12/416496.app. and ((chang\$3 differen\$3 reduc\$3) same organiz\$8).BI.	US-PGPUB; USPAT	OR	ON	2013/12/11 09:37
S198	82	((lap\$top computer device).ab.ti. and ((chang\$3 different) same configuration same automat\$7 same display\$3 same ((video media) with play\$3)).BI.	US-PGPUB; USPAT	OR	ON	2013/12/11 09:54
S199	27	S198 and (@ad<"20080401")	US-PGPUB; USPAT	OR	ON	2013/12/11 09:56
S200	13	((lap\$top computer device).ab.ti. and ((chang\$3 differ\$7) same configur\$7 same automat\$7 same display\$3 same (full with screen with view\$3)).BI.	US-PGPUB; USPAT	OR	ON	2013/12/11 10:15
S201	40	((lap\$top computer device).ab.ti. and	US-PGPUB;	OR	ON	2013/12/11

		((chang\$3 differ\$7) same configur\$7 same automat\$7 same (switch\$3 display\$3) same (full with screen)).BI.	USPAT				10:18
S202	19	S201 and (@ad<"20080401")	US-PGPUB; USPAT	OR	ON		2013/12/11 10:19
S204	21	S201 not S202	US-PGPUB; USPAT	OR	ON		2013/12/11 10:28
S205	0	(lap\$top computer device).ab.ti. and ((switch\$3 display\$3) same portrait same landscape same configuration same automat\$7 same (full with screen)).BI.	US-PGPUB; USPAT	OR	ON		2013/12/11 10:34
S206	0	(lap\$top computer device).ab.ti. and ((switch\$3 chang\$3 display\$3) same portrait same landscape same automat\$7 same (full with screen)).BI.	US-PGPUB; USPAT	OR	ON		2013/12/11 10:35
S208	5353	(lap\$1top computer device mobile hand\$held wireless portable tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda ipod ipad blackberry android (smart near10 phone) (smart near10 pad)).ab.ti. and ((switch\$3 chang\$3 display\$3) same portrait same landscape).BI.	US-PGPUB; USPAT	OR	ON		2013/12/11 10:36
S207	0	(lap\$1top computer device mobile hand\$held wireless portable tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda ipod ipad blackberry android (smart near10 phone) (smart near10 pad)).ab.ti. and ((switch\$3 chang\$3 display\$3) same portrait same landscape same automat\$7 same (full with screen)).BI.	US-PGPUB; USPAT	OR	ON		2013/12/11 10:36
S209	24	(lap\$1top computer device mobile hand\$held wireless portable tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda ipod ipad blackberry android (smart near10 phone) (smart near10 pad)).ab.ti. and ((switch\$3 chang\$3 display\$3) same portrait same landscape same full\$screen).BI.	US-PGPUB; USPAT	OR	ON		2013/12/11 10:37
S210	15	S209 and (@ad<"20080401")	US-PGPUB; USPAT	OR	ON		2013/12/11 10:38
S211	81	(lap\$1top computer device mobile hand\$held wireless portable tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda ipod ipad blackberry android (smart near10 phone) (smart near10 pad)).ab.ti. and ( portrait same landscape same full\$screen).BI.	US-PGPUB; USPAT	OR	ON		2013/12/11 10:55
S212	16	S211 and (@ad<"20080401")	US-PGPUB; USPAT	OR	ON		2013/12/11 10:57
S213	1796	(lap\$1top computer device mobile hand\$held wireless portable tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda	US-PGPUB; USPAT	OR	ON		2013/12/11 10:58

		ipod ipad blackberry android (smart near10 phone) (smart near10 pad)).ab.ti. and ((switch\$3 chang\$3 ) same (orientation portrait landscape) same (enlarg\$3 zoom\$3 full\$screen)).Bl.				
S214	40	(lap\$1top computer device mobile hand\$held wireless portable tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda ipod ipad blackberry android (smart near10 phone) (smart near10 pad)).ab.ti. and ((switch\$3 chang\$3 ) same orientation same portrait same landscape same automat\$7 same (enlarg\$3 reduc\$3 zoom\$7 full\$screen)).Bl.	US-PGPUB; USPAT	OR	ON	2013/12/11 10:59
S215	2	("2012/0233565").URPN.	USPAT	OR	ON	2013/12/11 11:07
S217	12	("2010/0081475").URPN.	USPAT	OR	ON	2013/12/11 11:18
S216	1	"20100081475".pn.	US-PGPUB; USPAT	OR	ON	2013/12/11 11:18
S219	2	"20090293007".pn. "20090298418".pn.	US-PGPUB; USPAT	OR	ON	2013/12/11 11:21
S221	0	("8600446").URPN.	USPAT	OR	ON	2013/12/11 11:31
S220	1	"8600446".pn.	US-PGPUB; USPAT	OR	ON	2013/12/11 11:31
S222	6	("20060085384"   "20070036346"   "20080096593"   "20080119237"   "20080204424"   "20090298418").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2013/12/11 11:32
S226	0	S225 and (portrait and landscape)	US-PGPUB; USPAT	OR	ON	2013/12/11 11:38
S225	142	S224 and (@ad<"20080401")	US-PGPUB; USPAT	OR	ON	2013/12/11 11:38
S224	639	flectronics.as. imerj.as. z124.as.	US-PGPUB; USPAT; USOCR	OR	ON	2013/12/11 11:38
S227	2	S225 and (portrait landscape)	US-PGPUB; USPAT	OR	ON	2013/12/11 11:39
S228	7	("20050125570"   "20050140648"   "5434964"   "20040203485"   "5758267"   "20050085273"   "20050215297").PN.	US-PGPUB; USPAT	OR	ON	2013/12/11 13:24
S229	49	("2005/0020325").URPN.	USPAT	OR	ON	2013/12/11 13:45
S230	31	S229 and (@ad<"20080401")	US-PGPUB; USPAT	OR	ON	2013/12/11 13:47
S231	1	"20080020744".pn.	US-PGPUB; USPAT	OR	ON	2013/12/11 15:03
S232	2706	"715".das. and (automat\$7 same display same mode).Bl.	US-PGPUB; USPAT	OR	ON	2013/12/11 15:21
S233	385	"715".das. and (automat\$7 same (switch\$3 chang\$3) same (display\$3 screen view\$3) same mode same (position orientation configuration)).Bl.	US-PGPUB; USPAT	OR	ON	2013/12/11 15:22



S234	202	S233 and (@ad<"20080401")	US-PGPUB; USPAT	OR	ON	2013/12/11 15:23
S235	8	"20040212602".pn. "20050091596".pn. "20090019383".pn. "6972752".pn. "5847698".pn. "6097389".pn. "7366994".pn. "2050134717".pn. "20040207568".pn.	US-PGPUB; USPAT	OR	ON	2013/12/11 15:38
S239	1	"06242853".pn.	JPO	OR	ON	2013/12/11 17:45
S238	0	"06-242853".pn.	JPO	OR	ON	2013/12/11 17:45
S237	0	"6-242853".pn.	JPO	OR	ON	2013/12/11 17:45
S236	0	"242853".pn.	JPO	OR	ON	2013/12/11 17:45
S240	12	"06242853".pn. "06259166".pn. "08179851".pn. "05197507".pn. "01292112".pn. "2005242436".pn. "2001167211".pn. "2005159741".pn. "10111658".pn. "1020000036647".pn. "6090200".pn. "2004302179".pn. "11296259".pn. "2006227409".pn.	JPO	OR	ON	2013/12/11 17:54
S243	32	(zoom\$3 same5 automat\$7 same5 easel).Bl.	US-PGPUB; USPAT	OR	ON	2013/12/12 11:10
S242	330	(zoom\$3 and automat\$7 and easel).Bl.	US-PGPUB; USPAT	OR	ON	2013/12/12 11:10
S241	0	(zoom\$3 same automat\$7 same easel).Bl.	US-PGPUB; USPAT	OR	ON	2013/12/12 11:10
S244	163	("5200913"   "6005767"   "6659516"   "7072179"   "20020021258"   "20040228076"   "20060264243"   "20080284738"   "5515345"   "5987704"   "6067224"   "6628267"   "6661426"   "6819304"   "7428142"   "7522946"   "D463797"   "D479708"   "D528993"   "6343006"   "20080024465"   "20060238439"   "6492974"   "20010032320"   "20080174570"   "20050091596"   "20090019383"   "6097389"   "20080209493"   "20080042987"   "3468576"   "4939514"   "5796575"   "6377444"   "6697055"   "20030109232"   "6222507"   "6302612"   "6642909"   "6859219"   "7138962"   "D495694"   "D504128"   "D513509"   "D517541"   "20050146845"   "20080062625"   "6341061"   "6882335"   "20050010860"   "20070073833"   "20060015823"   "20060123353"   "20050210399"   "20090300511"   "6275376"   "6510049"   "6829140"   "20050041378"   "5712760"   "6275376"   "6829140"   "D333636"   "D462069"   "D544846"   "D605635"   "6295038"   "7698407"   "7869834"   "20080158795"   "20090190295"   "20050134717"   "20070138806"   "20070182663"   "6223393"	US-PGPUB; USPAT	OR	ON	2014/10/29 17:41

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S245	7362	715/744,764,65,788,789,800.ccls. and (@ad< "20090401")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 09:58
S246	595	S245 and (lap\$1top computer device mobile hand\$held wireless portable tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda ipod ipad blackberry android (smart near10 phone) (smart near10 pad)).ab.ti. and ((automat\$7 dynamic\$7) same (switch\$3 chang\$3 transition\$3 convert\$3 togg\$3 modif\$7 adjust\$7 updat\$7) same (display\$3 screen view\$3) same (position orient\$7 portrait landscape configur\$7 resolution	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 09:59

		scal\$7 size zoom\$7 magnif\$7 enlarg\$7 reduc\$7)).Bl.				
S247	85	S245 and (lap\$1top computer device mobile hand\$held wireless portable tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda ipod ipad blackberry android (smart near10 phone) (smart near10 pad)).ab.ti. and ((automat\$7 dynamic\$7) same (switch\$3 chang\$3 transition\$3 convert\$3 toggl\$3 modif\$7 adjust\$7 updat\$7) same (display\$3 screen view\$3) same mode same (position orient\$7 portrait landscape configur\$7 resolution scal\$7 size zoom\$7 magnif\$7 enlarg\$7 reduc\$7)).Bl.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 10:00
S249	0	S245 and ((lap\$1top computer device mobile hand\$held wireless portable tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda ipod ipad blackberry android (smart near10 phone) (smart near10 pad)) same (automat\$7 dynamic\$7) same (switch\$3 chang\$3 transition\$3 convert\$3 toggl\$3 modif\$7 adjust\$7 updat\$7) same (display\$3 screen view\$3) same (position orient\$7 portrait landscape resolution scal\$7 size zoom\$7 magnif\$7 enlarg\$7 reduc\$7) same sensor same input same config\$7).Bl.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 10:01
S248	0	S245 and (lap\$1top computer device mobile hand\$held wireless portable tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda ipod ipad blackberry android (smart near10 phone) (smart near10 pad)).ab.ti. and ((automat\$7 dynamic\$7) same (switch\$3 chang\$3 transition\$3 convert\$3 toggl\$3 modif\$7 adjust\$7 updat\$7) same (display\$3 screen view\$3) same (position orient\$7 portrait landscape resolution scal\$7 size zoom\$7 magnif\$7 enlarg\$7 reduc\$7) same sensor same input same config\$7).Bl.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 10:01
S251	0	S245 and ((lap\$1top computer device mobile hand\$held wireless portable tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda ipod ipad blackberry android (smart near10 phone) (smart near10 pad)) same (automat\$7 dynamic\$7) same (switch\$3 chang\$3 transition\$3 convert\$3 toggl\$3 modif\$7 adjust\$7 updat\$7) same config\$7 same (display\$3 screen view\$3 content) same (home default) same sensor same input).Bl.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 10:02
S250	0	S245 and (lap\$1top computer device mobile hand\$held wireless portable	US-PGPUB; USPAT;	OR	ON	2014/10/30 10:02

		tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda ipod ipad blackberry android (smart near10 phone) (smart near10 pad)).ab,ti. and ((automat\$7 dynamic\$7) same (switch\$3 chang\$3 transition\$3 convert\$3 toggl\$3 modif\$7 adjust\$7 updat\$7) same config\$7 same (display\$3 screen view\$3 content) same (home default) same sensor same input).Bl.	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S260	1	14/680422.app.	US-PGPUB; USPAT	OR	ON	2017/04/04 15:29
S262	51	S261 and portal.AB,TI.	US-PGPUB; USPAT	OR	ON	2017/04/04 17:55
S261	5612	(Yahoo).as.	US-PGPUB; USPAT	OR	ON	2017/04/04 17:55
S264	403	(yves near behar).in.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/04 18:29
S263	259	(yves near behar).in.	US-PGPUB; USPAT	OR	ON	2017/04/04 18:29
S266	1	"20080059888".pn. and (rotat\$3 landscape portrait orient\$7).Bl.	US-PGPUB; USPAT	OR	ON	2017/04/06 13:05
S267	1	"20080059888".pn. and (user same (chang\$3 rotat\$3) same ( landscape portrait orient\$7)).Bl.	US-PGPUB; USPAT	OR	ON	2017/04/06 13:07
S268	1	14/680422.app.	US-PGPUB; USPAT	OR	ON	2017/04/06 18:59
S270	26	S269 and (search\$3 near engine).Bl.	US-PGPUB; USPAT	OR	ON	2017/04/06 19:39
S269	176	(US-20040001049-\$ or US-20050221865-\$ or US-20050210399-\$ or US-20100174993-\$ or US-20050257400-\$ or US-20060230021-\$ or US-20020049655-\$ or US-20080077614-\$ or US-20020165846-\$ or US-20050182742-\$ or US-20090187837-\$ or US-20070028270-\$ or US-20070028268-\$ or US-20070028267-\$ or US-20070028183-\$ or US-20080163127-\$ or US-20060224575-\$ or US-20060224962-\$ or US-20110191163-\$ or US-20080052637-\$ or US-20080168387-\$ or US-20070098350-\$ or US-20050097007-\$ or US-20090113307-\$ or US-20090113310-\$ or US-20070127642-\$).did. or (US-20090063502-\$ or US-20040167896-\$ or US-20070124701-\$ or US-20080168495-\$ or US-20090144157-\$ or US-20020095387-\$ or US-20060026213-\$ or US-20100131977-\$ or US-20090327222-\$ or US-20060264243-\$ or US-20080024465-\$ or US-20060209022-\$ or US-	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2017/04/06 19:39

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S271	76	S269 and (search\$3).Bl.	US-PGPUB; USPAT	OR	ON	2017/04/07 19:41
S272	2	12/416496.app.	US-PGPUB; USPAT	OR	ON	2017/04/07 09:14
S273	7	12/416496.app. 12/416479.app. 13/651636.app. 14/108576.app.	US-PGPUB; USPAT	OR	ON	2017/04/07 09:53
S274	11642	((web internet) and portal).AB,TL.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:42
S275	103101	((chang\$3 updat\$3 rotat\$3) with (configur\$5 orient\$5) with (aspect view GUI UI)).Bl.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:43
S276	9	((chang\$3 updat\$3 rotat\$3) with (configur\$5 orient\$5) with (aspect view GUI UI) with (home near (view page screen)) with (detail channel near (view screen tile page)) ).Bl.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:44
S277	58	((chang\$3 updat\$3 rotat\$3) same (configur\$5 orient\$5) same (aspect view GUI UI) same (home near10 (view page screen)) same ((detail\$3 channel) near10 (view screen tile page)) ).Bl.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:45
S278	1343	((chang\$3 updat\$3 rotat\$3) same (configur\$5 orient\$5) same (aspect view GUI UI page screen tile) same (home portal landing) same (detail\$3 channel) ).Bl.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:46
S279	35	S274 and S278	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT;	OR	ON	2017/04/07 10:47

			IBM_TDB			
S282	4382	((web internet) near portal).AB, TI.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:49
S281	8727	((web internet) with portal).AB, TI.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:49
S280	112	S278 AND ( (G06F3/04842 OR G06F3/0482 OR G06F3/0484 OR G06F3/04817 OR G06F3/04847 OR G06F3/0481).CPC. )	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:49
S285	282	S283 and (@ad<"20080401")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:51
S284	14	S280 and (@ad<"20080401")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:51
S283	481	S282 AND ( (G06F17/3089 OR G06F17/30873 OR G06F17/30867 OR G06F17/30864 OR G06F17/30899 OR G06F17/2247).CPC. )	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:51
S286	1	12/459172.app.	US-PGPUB; USPAT	OR	ON	2017/09/14 13:07
S288	1	"20150277688".pn. and (key\$1board\$3 same (position\$3 in\$1operable enabl\$3 disabl\$3 activ\$5 in\$1activ\$5)).BI.	US-PGPUB; USPAT	OR	ON	2017/09/15 12:24
S287	0	"20150277688".pn. and (key\$1board\$3 same sensor\$3 same (position\$3 in\$1operable enabl\$3 disabl\$3 activ\$5 in\$1activ\$5)).BI.	US-PGPUB; USPAT	OR	ON	2017/09/15 12:24
S289	180	(US-20040001049-\$ or US- 20050221865-\$ or US-20050210399-\$ or US-20100174993-\$ or US- 20050257400-\$ or US-20060230021-\$ or US-20020049655-\$ or US- 20080077614-\$ or US-20020165846-\$ or US-20050182742-\$ or US- 20090187837-\$ or US-20070028270-\$ or US-20070028268-\$ or US- 20070028267-\$ or US-20070028183-\$ or US-20080163127-\$ or US- 20060224575-\$ or US-20060224962-\$ or US-20110191163-\$ or US- 20080052637-\$ or US-20080168387-\$	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2017/09/15 12:32

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S290	10	S289 and ((easel near10 mode) same key\$1board\$3 same (back near10 (panel side face)) ).Bl.	US-PGPUB; USPAT	OR	ON	2017/09/15 12:33
S291	23	((easel near10 mode) same key\$1board\$3 same (back near10 (panel side face)) ).Bl.	US-PGPUB; USPAT	OR	ON	2017/09/15 12:35
S292	24	((easel with mode) same key\$1board\$3 same (back with (panel side face)) ).Bl.	US-PGPUB; USPAT	OR	ON	2017/09/15 12:37
S293	11	( mode same key\$1board\$3 same (hid\$3 conceal\$3) same (back near10 (panel side face)) ).Bl.	US-PGPUB; USPAT	OR	ON	2017/09/15 12:39
S295	108	((virtual near10 key\$1board) same (mov\$7 transition\$3) same ((front with back ) (first with second)) same (panel face side)).Bl.	US-PGPUB; USPAT	OR	ON	2017/09/15 12:42
S294	55	((virtual near10 key\$1board) same (mov\$7 transition\$3) same ((front with back ) (first with second)) same (panel face)).Bl.	US-PGPUB; USPAT	OR	ON	2017/09/15 12:42
S297	16	( mode same key\$1board\$3 same (hid\$3 conceal\$3) same (back near10 (panel side face)) ).Bl.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/09/15 12:45
S296	23	((easel near10 mode) same	US-PGPUB;	OR	ON	2017/09/15

		key\$1board\$3 same (back near10 (panel side face)) ).Bl.	USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB			12:45
S299	0	S296 and (@ad<"20080401")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/09/15 12:46
S298	120	((virtual near10 key\$1board) same (mov\$7 transition\$3) same ((front with back ) (first with second)) same (panel face side)).Bl.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/09/15 12:46
S301	18	S298 and (@ad<"20080401")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/09/15 12:47
S300	4	S297 and (@ad<"20080401")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/09/15 12:47
S305	14	S303 and (@ad<"20080401")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/09/15 13:01
S304	10	S302 and (@ad<"20080401")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/09/15 13:01
S303	61	S298 AND ( (G06F3/048\$).CPC. )	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/09/15 13:01
S302	52	S298 AND ( (G06F3/04886 OR G06F1/1626).CPC. )	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/09/15 13:01
S306	4	"8624844".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/09/15 13:02

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S253	581	S252 and (lap\$1top computer device mobile hand\$held wireless portable tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda ipod ipad blackberry android (smart near10 phone) (smart near10 pad)).ab,ti. and ((automat\$7 dynamic\$7) same (switch\$3 chang\$3 transition\$3 convert\$3 togg\$3 modif\$7 adjust\$7 updat\$7) same (display\$3 screen view\$3) same (position orient\$7 portrait landscape configur\$7 resolution scal\$7 size zoom\$7 magnif\$7 enlarg\$7 reduc\$7)).Bl.	US-PGPUB; USPAT	OR	ON	2014/10/30 10:12
S252	6202	715/744,764,65,788,789,800.ccls. and (@ad<"20090401")	US-PGPUB; USPAT	OR	ON	2014/10/30 10:12
S255	0	S252 and (lap\$1top computer device mobile hand\$held wireless portable tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda ipod ipad blackberry android (smart near10 phone) (smart near10 pad)).ab,ti. and ((automat\$7 dynamic\$7) same (switch\$3 chang\$3 transition\$3 convert\$3 togg\$3 modif\$7 adjust\$7 updat\$7) same (display\$3 screen view\$3) same (position orient\$7 portrait landscape resolution scal\$7 size zoom\$7 magnif\$7 enlarg\$7 reduc\$7) same sensor same input same config\$7).Bl.	US-PGPUB; USPAT	OR	ON	2014/10/30 10:13
S254	84	S252 and (lap\$1top computer device mobile hand\$held wireless portable tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda ipod ipad blackberry android (smart near10 phone) (smart near10 pad)).ab,ti. and ((automat\$7 dynamic\$7) same (switch\$3 chang\$3 transition\$3 convert\$3 togg\$3 modif\$7 adjust\$7 updat\$7) same (display\$3 screen view\$3) same mode same (position orient\$7 portrait landscape configur\$7 resolution scal\$7 size zoom\$7 magnif\$7 enlarg\$7 reduc\$7)).Bl.	US-PGPUB; USPAT	OR	ON	2014/10/30 10:13
S257	0	S252 and (lap\$1top computer device mobile hand\$held wireless portable tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda ipod ipad blackberry android (smart near10 phone) (smart near10 pad)).ab,ti. and ((automat\$7 dynamic\$7) same (switch\$3 chang\$3 transition\$3 convert\$3 togg\$3 modif\$7 adjust\$7 updat\$7) same config\$7 same (display\$3 screen view\$3 content) same (home default) same sensor same input).Bl.	US-PGPUB; USPAT	OR	ON	2014/10/30 10:14
S256	0	S252 and ((lap\$1top computer device mobile hand\$held wireless portable tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda ipod ipad blackberry android (smart near10 phone) (smart near10 pad)) same (automat\$7 dynamic\$7) same (switch\$3 chang\$3	US-PGPUB; USPAT	OR	ON	2014/10/30 10:14

		transition\$3 convert\$3 togg\$3 modif\$7 adjust\$7 updat\$7) same (display\$3 screen view\$3) same (position orient\$7 portrait landscape resolution scal\$7 size zoom\$7 magnif\$7 enlarg\$7 reduc\$7) same sensor same input same config\$7).Bl.				
S258	0	S252 and ((lap\$1top computer device mobile hand\$held wireless portable tablet note\$1book (cell near10 phone) player (personal near10 communicat\$3) pda ipod ipad blackberry android (smart near10 phone) (smart near10 pad)) same (automat\$7 dynamic\$7) same (switch\$3 chang\$3 transition\$3 convert\$3 togg\$3 modif\$7 adjust\$7 updat\$7) same config\$7 same (display\$3 screen view\$3 content) same (home default) same sensor same input).Bl.	US-PGPUB; USPAT	OR	ON	2014/10/30 10:15
S307	24	((easel with mode) same key\$1board\$3 same (back with (panel side face)) ).Bl.	US-PGPUB; USPAT	OR	ON	2017/09/15 13:06
S310	55	((virtual near10 key\$1board) same (mov\$7 transition\$3) same ((front with back ) (first with second)) same (panel face)).Bl.	US-PGPUB; USPAT	OR	ON	2017/09/15 13:07
S309	11	( mode same key\$1board\$3 same (hid\$3 conceal\$3) same (back near10 (panel side face)) ).Bl.	US-PGPUB; USPAT	OR	ON	2017/09/15 13:07
S308	23	((easel near10 mode) same key\$1board\$3 same (back near10 (panel side face)) ).Bl.	US-PGPUB; USPAT	OR	ON	2017/09/15 13:07
S313	11	( mode same key\$1board\$3 same (hid\$3 conceal\$3) same (back near10 (panel side face)) ).Bl.	US-PGPUB; USPAT	OR	ON	2017/09/15 13:08
S312	23	((easel near10 mode) same key\$1board\$3 same (back near10 (panel side face)) ).Bl.	US-PGPUB; USPAT	OR	ON	2017/09/15 13:08
S311	108	((virtual near10 key\$1board) same (mov\$7 transition\$3) same ((front with back ) (first with second)) same (panel face side)).Bl.	US-PGPUB; USPAT	OR	ON	2017/09/15 13:08
S314	108	((virtual near10 key\$1board) same (mov\$7 transition\$3) same ((front with back ) (first with second)) same (panel face side)).Bl.	US-PGPUB; USPAT	OR	ON	2017/09/15 13:09
S318	2	S313 and (@ad< "20080401")	US-PGPUB; USPAT	OR	ON	2017/09/15 13:10
S317	0	S312 and (@ad< "20080401")	US-PGPUB; USPAT	OR	ON	2017/09/15 13:10
S316	9	S311 and (@ad< "20080401")	US-PGPUB; USPAT	OR	ON	2017/09/15 13:10
S315	0	S310 and (@ad< "20080401")	US-PGPUB; USPAT	OR	ON	2017/09/15 13:10
S323	5	S321 and (@ad< "20080401")	US-PGPUB; USPAT	OR	ON	2017/09/15 13:11
S322	1	S319 and (@ad< "20080401")	US-PGPUB;	OR	ON	2017/09/15 13:11

EAST Search History

			USPAT			
S321	52	S314 AND ( (G06F3/048\$).CPC. )	US- PGPUB; USPAT	OR	ON	2017/09/15: 13:11
S320	42	S314 AND ( (G06F3/0488\$).CPC. )	US- PGPUB; USPAT	OR	ON	2017/09/15: 13:11
S319	43	S314 AND ( (G06F3/04886 OR G06F1/1626).CPC. )	US- PGPUB; USPAT	OR	ON	2017/09/15: 13:11

**9/ 15/ 2017 6:52:14 PM**

**C:\ Users\ cdragoescu\ Documents\ EAST\ Workspaces\ 12416496.wsp**

Docket No.: L2039.70004US03  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

First Named Inventor: Yves Behar  
Application No.: 14/680,422  
Confirmation No.: 5691  
Filed: April 7, 2015  
For: SYSTEM AND METHOD FOR STREAMLINING USER  
INTERACTION WITH ELECTRONIC CONTENT  
Examiner: J. N. To  
Art Unit: 2143

<b>Certificate of Electronic Filing under 37 CFR §1.8</b>	
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office's electronic filing system in accordance with 37 CFR § 1.6(a)(4).	
Dated: <u>August 18, 2017</u>	Electronic Signature for: <u>Eileen M. MacKenzie/</u>

**AMENDMENT IN RESPONSE TO NON-FINAL OFFICE ACTION UNDER  
37 C.F.R. § 1.111**

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

Dear Sir:

**INTRODUCTORY COMMENTS**

In response to the Office Action dated April 19, 2017, please amend the above-identified U.S. patent application 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 7 of this paper.

### AMENDMENTS TO THE CLAIMS

Applicant submits below a complete listing of the current claims, including marked-up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing. This listing of claims replaces all prior versions, and listings, of claims in the application.

#### Listing of Claims:

1. (Currently Amended) A customized user interface to display computer content on a display component of a computer system including a keyboard, the user interface comprising:

at least one processor operatively connected to a memory of the computer system;

a graphical user interface, executing on the at least one processor, configured to display the computer content on the display component of the computer system, the graphical user interface configured to:

display a plurality of views of a plurality of visual representations of computer content, wherein the computer content includes at least one of selectable digital content, selectable computer operations and passive digital content;

an execution component, executing on the at least one processor, configured to:

detect a current computer system configuration from at least a first computer system configuration where the keyboard is operable to receive input from an operator of the computer system to control the computer system and a second computer system configuration where the keyboard is inoperable to receive input from the operator of the computer system to control the computer system;

select one of the plurality of views for display on the computer system in response to the detected current computer system configuration; and

transition the display component to the selected one of the plurality of views.

2-5. (Canceled)

6. (Previously Presented) The user interface of claim 1, wherein in the plurality of views includes a home view configured to organize a plurality of content modes and a channel view configured to organize at least one of a single content mode and two content modes.
7. (Previously Presented) The user interface of claim 1, wherein the plurality of views includes a screen saver view configured to organize selected content modes for passive viewing.
8. (Previously Presented) The user interface of claim 1, wherein the plurality of views includes a home view organizing a plurality of visual representations of digital content, wherein the home view comprises a header display and a body display, and wherein the header display comprises a lateral frame extending from the left of the display component to the right of the display component, wherein the body display is rendered below the header display in the display component of the computer system.
9. (Currently Amended) The user interface of claim 8, wherein the computer system configuration comprises a physical positioning of a computer system display relative to a base of the computer system that includes the keyboard about a longitudinal axis of rotation.
10. (Previously Presented) The user interface of claim 8, wherein the graphical user interface is further configured to display a search tool displayed in the header display, wherein the search tool is configured to accept search terms entered by a user and in response to execution, causes the computer system to navigate to a view of a first visual representation of digital content, wherein the digital content includes a search engine, and the search engine presents results for the search terms.
11. (Original) The user interface of claim 1, further comprising a storage component configured to retain a previous view state.



12. (Original) The user interface of claim 11, wherein the execution component is further configured to cause the computer system to transition to a previous view in response to execution of a navigation element by a user.

13. (Previously Presented) The user interface of claim 11, further comprising the navigation element displayed in a header display.

14. (Original) The user interface of claim 8, wherein the body display comprises an organization of the plurality of visual representations of computer content rendered on the computer display, and the home view further comprises display pages in response to a display threshold establishing a maximal number of visual representations displayed per display page.

15. (Original) The user interface of claim 14, wherein the home view further comprises an indication of visual representations displayed on adjacent display pages of the home view, wherein the indication is displayed within the body of the home view.

16. (Previously Presented) The user interface of claim 8, wherein the graphical user interface is further configured to display a nascent card in the home view, wherein the nascent card is configured to permit generation of additional visual representations of digital content.

17. (Original) The user interface of claim 16, wherein the execution component is further configured to execute a process for creating a visual representation in response to execution of the nascent card, wherein the process for creating a visual representation includes acts of:

- transitioning to a quick access view;
- generating a mapping to online digital content;
- executing the mapping; and
- displaying a first view of the mapped digital content.

18. (Previously Presented) The user interface of claim 1, wherein the plurality of views includes a quick access view configured to permit user generation of a mapping between digital content and a visual representation.
19. (Previously Presented) The user interface of claim 1, wherein the plurality of views includes a channel view including a channel selector that displays a sequence of visual representations.
20. (Previously Presented) The user interface of claim 19, wherein the execution component is further configured to transition the computer system to the channel view in response to receiving user input via at least one input device integral to or operatively connected with the computer system.
21. (Currently Amended) A customized user interface to display computer content on a display component of a computer system including a keyboard, the user interface comprising:
- at least one processor operatively coupled to a memory of the computer system;
  - a graphical user interface, executing on at least one processor, configured to display a plurality of views of a plurality of visual representations of the computer content;
  - an execution component, executing on the at least one processor, configured to:
    - identify at least a first computer system configuration where the keyboard is operable to receive input from an operator of the computer system to control the computer system and a second computer system configuration where the keyboard is inoperable to receive input from the operator of the computer system to control the computer system based on sensor input indicating a position of the display component;
    - select, responsive to the sensor input, a first content view from the plurality of views for the first computer system configuration;
    - transition, automatically in response to the sensor input, the display component between at least the first content view of the plurality of views and a second content view of the plurality of views;

receive user input via at least one input device integral to or operatively connected with the computer system; and

transition, automatically in response to receiving the user input, the display component from one of the first content view and the second content view to a channel view including a channel selector that displays a sequence of visual representations.

22. (Previously Presented) The user interface of claim 21, wherein the at least one input device includes at least one of a scroll wheel, a touchpad, and a mouse.

23. (New) The user interface of claim 1, wherein the first mode is a laptop mode where the keyboard is oriented to be accessible to the operator and wherein the second mode is an easel mode or a frame mode where the keyboard is oriented to be inaccessible to the operator.

24. (New) A customized user interface to display computer content on a display component of a computer system including a keyboard, the user interface comprising:

at least one processor operatively connected to a memory of the computer system;

a graphical user interface, executing on the at least one processor, configured to display the computer content on the display component of the computer system, the graphical user interface configured to:

display a plurality of views of a plurality of visual representations of computer content, wherein the computer content includes at least one of selectable digital content, selectable computer operations and passive digital content;

an execution component, executing on the at least one processor, configured to:

detect a current computer system configuration from at least a first computer system configuration where the keyboard is positioned to receive input from an operator of the computer system and a second computer system configuration where the keyboard is not positioned to receive input from the operator of the computer system;

select one of the plurality of views for display on the computer system in response to the detected current computer system configuration; and

transition the display component to the selected one of the plurality of views.

### **REMARKS**

In response to the Office Action mailed April 19, 2017, Applicant respectfully requests reconsideration in view of the amendments and the following remarks. Claims 1 and 6-22 were previously pending in this application. Claims 1, 9, and 21 have been amended. New claims 23 and 24 have been added. As a result, claims 1 and 6-24 are pending for examination with claims 1, 21, and 24 being in independent form. No new matter has been added.

Support for these amendments is provided at, for example, Paragraphs [0122]-[0130], and [0134] and FIGs. 26, 27, and 52A-52C of the Specification as Originally Published (2015/0277688).

### **DOUBLE PATENTING REJECTION**

The Office Action rejected claims 1-22 on the ground of nonstatutory double patenting as purportedly being unpatentable over claims 1-20 of U.S. Patent No. 9,003,315. Without acceding to the propriety of the double patenting rejection, a terminal disclaimer is filed herewith to remove the rejection. Accordingly, withdrawal of the double patenting rejection is respectfully requested.

### **REJECTIONS UNDER 35 U.S.C. § 103**

Claims 1, 6-7 and 18 are rejected 35 U.S.C. § 103(a) as being unpatentable over “Creating a Digital Home Entertainment System with Windows Media Center” by Miller, 2006 (hereinafter “Miller”) in view of U.S. Publication No. 2008/0059888 to Dunko (hereinafter “Dunko”). Claims 8, 14 and 15 are rejected 35 U.S.C. § 103(a) as being unpatentable over Miller in view of Dunko and further in view of U.S. Patent Publication No. 2005/0210399 to Filner et al. (hereinafter “Filner”). Claim 9 is rejected under 35 U.S.C. 103 §(a) as being unpatentable over Miller in view of Dunko and in view of Filner and further in view of U.S. Publication No. 2004/0001049 to Oakley (hereinafter Oakley). Claims 11-13 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Miller in view of Dunko and further in view of U.S. Patent No. 7,698,407 to Mattox et al. (hereinafter “Mattox”). Claims 10, 16 and 17 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Miller in view of Dunko and in view of Filner and further in view of Mattox. Claims 19-22 are rejected under 35 U.S.C. § 103(a) as being patentable over Miller in view of

Dunko and further in view of U.S. Patent Publication No. 2005/0221865 to Nishiyama et al. (hereinafter “Nishiyama”). In response, Applicant has amended independent claims 1 and 21 and respectfully requests consideration in view of the foregoing amendments and the following remarks.

Claim 1, as amended, is directed to “[a] customized user interface to display computer content on a display component of a computer system including a keyboard.” The user interface includes “a graphical user interface” that is “configured to: ... detect a current computer system configuration from at least *a first computer system configuration where the keyboard is operable to receive input from an operator of the computer system to control the computer system* and *a second computer system configuration where the keyboard is inoperable to receive input from the operator of the computer system to control the computer system.*” The cited references fail to teach at least these limitations.

Claim 21, as amended, is directed to “[a] customized user interface to display computer content on a display component of a computer system including a keyboard.” The user interface includes “an execution component, executing on the at least one processor, configured to: identify at least *a first computer system configuration where the keyboard is operable to receive input from an operator of the computer system to control the computer system* and *a second computer system configuration where the keyboard is inoperable to receive input from the operator of the computer system to control the computer system* based on sensor input indicating a position of the display component.” The cited references fail to teach at least these limitations.

A. Discussion of Cited References

Miller discloses a guide for Windows Media Center to assist users “determin[e] which type of Media Center PC to buy, or with connecting and configuring the Media Center PC in your home theater system.” (see, e.g., p. 1, Overview).

Dunko is directed to “[a] system and method... for reconfiguring the graphical user interface (GUI) of a mechanically vibrated touchscreen display associated with a portable mobile communications device that is operable in a variety of modes” (see, e.g., Abstract). Dunko discloses a device that, when “operating in automatic mode” uses an “orientation sensing application [to] cause[] the mechanically vibrated touch screen display to render the graphical user

interface (GUI) for the default mode or application associated with the currently sensed orientation (portrait or landscape)” (see, e.g., Paragraph [0036]).

Nishiyama is directed to “[a] portable radio telephone set provided with a display section includes a rotary selector which rotates to select various functions” (see, e.g., Abstract). Nishiyama discloses “[a] menu displayed on the display section [that] is selected by the rotary selector during a non-conversation time, and the sound volume can be adjusted during the conversation time” (see, e.g., Abstract).

B. Independent claim 1 patently distinguishes over Miller and Dunko

Claim 1 is patentable over the combination of Miller and Dunko at least because the combination fails to teach or suggest “a graphical user interface” that is “configured to: ... detect a current computer system configuration from at least *a first computer system configuration where the keyboard is operable to receive input from an operator of the computer system to control the computer system* and *a second computer system configuration where the keyboard is inoperable to receive input from the operator of the computer system to control the computer system.*” Rather, Miller discloses a guide for using Windows Media Center and Dunko discloses a touch screen device that identifies whether the display is in a portrait mode or a landscape mode. Consequently, the combination of Miller and Dunko fails to teach “a graphical user interface” that is “configured to: ... detect a current computer system configuration from at least *a first computer system configuration where the keyboard is operable to receive input from an operator of the computer system to control the computer system* and *a second computer system configuration where the keyboard is inoperable to receive input from the operator of the computer system to control the computer system,*” as recited in claim 1. Accordingly, withdrawal of the rejection of claim 1, and each claim that depends therefrom, under 35 U.S.C. § 103(a) is respectfully requested.

C. Independent claim 21 patently distinguishes over Miller, Dunko, and Nishiyama

Claim 21 is patentable over the combination of Miller, Dunko, and Nishiyama at least because the combination fails to teach or suggest a “user interface” that includes “an execution component, executing on the at least one processor, configured to: identify at least *a first computer*

*system configuration where the keyboard is operable to receive input from an operator of the computer system to control the computer system and a second computer system configuration where the keyboard is inoperable to receive input from the operator of the computer system to control the computer system* based on sensor input indicating a position of the display component.” Rather, Miller discloses a guide for using Windows Media Center, Dunko discloses a touch screen device that identifies whether the display is in a portrait mode or a landscape mode, and Nishiyama discloses a device with a scroll wheel. Consequently, the combination of Miller, Dunko, and Nishiyama fails to teach a “user interface” that includes “an execution component, executing on the at least one processor, configured to: identify at least *a first computer system configuration where the keyboard is operable to receive input from an operator of the computer system to control the computer system and a second computer system configuration where the keyboard is inoperable to receive input from the operator of the computer system to control the computer system* based on sensor input indicating a position of the display component,” as recited in claim 21. Accordingly, withdrawal of the rejection of claim 21, and each claim that depends therefrom, under 35 U.S.C. § 103(a) is respectfully requested.

#### NEWLY PRESENTED CLAIMS

Claims 23 and 24 have been added. Claim 23 depends from independent claim 1. Therefore, claim 23 is allowable for at least the same reasons discussed above with regard to independent claim 1. Claim 24 is allowable over the cited references at least because the cited references fail to teach or suggest a “an execution component, executing on the at least one processor, configured to: detect a current computer system configuration from at least a first computer system configuration where the keyboard is positioned to receive input from an operator of the computer system and a second computer system configuration where the keyboard is not positioned to receive input from the operator of the computer system,” as recited in claim 24.

#### GENERAL COMMENTS ON DEPENDENT CLAIMS

Since each of the dependent claims depends from a base claim that is believed to be in condition for allowance, for the sake of brevity, Applicant believes that it is unnecessary at this time

to argue the further distinguishing features of the dependent claims. However, Applicant does not necessarily concur with the interpretation of the previously presented dependent claims as set forth in the Office Action, nor does Applicant concur that the basis for rejection of any of the previously presented dependent claims is proper. Therefore, Applicant reserves the right to specifically address the further patentability of the dependent claims in the future.

### **CONCLUSION**

In view of the foregoing amendments and remarks, reconsideration is respectfully requested. This application should now be in condition for allowance; a notice to this effect is respectfully requested. If the Examiner believes, after this amendment, that the application is not in condition for allowance, the Examiner is requested to call the Applicant's attorney at the telephone number listed below.

If this response is not considered timely filed and if a request for an extension of time is otherwise absent, Applicant hereby requests any necessary extension of time. Applicant believes no fee is due with this response. However, if a fee is due, please charge Deposit Account No. 23/2825 under Docket No. L2039.70004US03 from which the undersigned is authorized to draw.

Dated: August 18, 2017

Respectfully submitted,

Electronic signature: /Marcus E. Browne/  
Marcus E. Browne  
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600 Atlantic Avenue  
Boston, Massachusetts 02210-2206  
617.646.8000





## Electronic Patent Application Fee Transmittal

<b>Application Number:</b>	14680422			
<b>Filing Date:</b>	07-Apr-2015			
<b>Title of Invention:</b>	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT			
<b>First Named Inventor/Applicant Name:</b>	Yves Behar			
<b>Filer:</b>	Marcus E. Browne/Eileen MacKenzie			
<b>Attorney Docket Number:</b>	L2039.70004US03			
Filed as Large Entity				
<b>Filing Fees for Utility under 35 USC 111(a)</b>				
<b>Description</b>	<b>Fee Code</b>	<b>Quantity</b>	<b>Amount</b>	<b>Sub-Total in USD(\$)</b>
<b>Basic Filing:</b>				
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
<b>Petition:</b>				
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
<b>Extension-of-Time:</b>				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 1 month with \$0 paid	1251	1	200	200
<b>Miscellaneous:</b>				
STATUTORY OR TERMINAL DISCLAIMER	1814	1	160	160
<b>Total in USD (\$)</b>				<b>360</b>

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	30126942
<b>Application Number:</b>	14680422
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	5691
<b>Title of Invention:</b>	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
<b>First Named Inventor/Applicant Name:</b>	Yves Behar
<b>Customer Number:</b>	23628
<b>Filer:</b>	Marcus E. Browne/Eileen MacKenzie
<b>Filer Authorized By:</b>	Marcus E. Browne
<b>Attorney Docket Number:</b>	L2039.70004US03
<b>Receipt Date:</b>	18-AUG-2017
<b>Filing Date:</b>	07-APR-2015
<b>Time Stamp:</b>	18:18:41
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$360
RAM confirmation Number	082117INTEFSW18193100
Deposit Account	232825
Authorized User	Wolf Greenfield

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

37 CFR 1.17 (Patent application and reexamination processing fees)

<b>File Listing:</b>					
<b>Document Number</b>	<b>Document Description</b>	<b>File Name</b>	<b>File Size(Bytes)/ Message Digest</b>	<b>Multi Part /.zip</b>	<b>Pages (if appl.)</b>
1	Miscellaneous Incoming Letter	L203970004US03-TRN-MEB.pdf	25156 a4727a711225364f008acaa43fac4935374517752	no	1
<b>Warnings:</b>					
<b>Information:</b>					
2	Fee Worksheet (SB06)	L203970004US03-FEE-MEB.pdf	31388 ccac8a293347ebc0fcd275f3c77df1e2cae472c7	no	1
<b>Warnings:</b>					
<b>Information:</b>					
3	Extension of Time	L203970004US03-EXT-MEB.pdf	23603 c04b4446556b8dbc312dc64e1a235ea5584832ef	no	1
<b>Warnings:</b>					
<b>Information:</b>					
4		L203970004US03-AMN-MEB.pdf	59698 57e1d3cf0df106b0a9f25df39221f69558b930da	yes	11
	<b>Multipart Description/PDF files in .zip description</b>				
	<b>Document Description</b>		<b>Start</b>	<b>End</b>	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
	Claims		2	6	
Applicant Arguments/Remarks Made in an Amendment		7	11		
<b>Warnings:</b>					
<b>Information:</b>					
5	Terminal Disclaimer Filed	L203970004US03-TD-MEB.pdf	20731 0fa6c7cf43c566c2b6e7d08d4863a0fdbaa2ad0d	no	1

<b>Warnings:</b>					
<b>Information:</b>					
6	Fee Worksheet (SB06)	fee-info.pdf	32756	no	2
			6954d8411154004a42fe97ac7bb2a1b1e46f389a		
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>				193332	
<p><b>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.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>  <b>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.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  <b>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.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  <b>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.</b></p>					

<h1>TRANSMITTAL FORM</h1> <p><i>(to be used for all correspondence after initial filing)</i></p>	Application Number	14/680,422-Conf. #5691
	Filing Date	April 7, 2015
	First Named Inventor	Yves Behar
	Art Unit	2143
	Examiner Name	J. N. To
Total Number of Pages in This Submission	Attorney Docket Number	L2039.70004US03

ENCLOSURES <i>(Check all that apply)</i>		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input checked="" type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input checked="" type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC ( <b>Appeal Notice, Brief, Reply Brief</b> ) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	WOLF, GREENFIELD & SACKS, P.C.		
Signature	/Marcus E. Browne/		
Printed name	Marcus E. Browne		
Date	August 18, 2017	Reg. No.	71,897

<b>Certificate of Electronic Filing under 37 CFR §1.8</b>	
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office's electronic filing system in accordance with 37 CFR § 1.6(a)(4).	
Dated: <u>August 18, 2017</u>	Electronic Signature for: <u>/Eileen M. MacKenzie/</u>

<b>FEE TRANSMITTAL</b>		Complete if known	
		Application Number	14/680,422-Conf. #5691
		Filing Date	April 7, 2015
<input type="checkbox"/>	Applicant asserts small entity status. See 37 CFR 1.27.	First Named Inventor	Yves Behar
<input type="checkbox"/>	Applicant certifies micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.	Examiner Name	J. N. To
		Art Unit	2143
TOTAL AMOUNT OF PAYMENT		Practitioner Docket No.	L2039.70004US03
(\$)360.00			

**METHOD OF PAYMENT** (check all that apply)

Check     Credit Card     Money Order     None     Other (please identify): \_\_\_\_\_  
 Deposit Account    Deposit Account Number: 23/2825    Deposit Account Name: Wolf, Greenfield & Sacks, P.C.

For the above-identified deposit account, the Director is hereby authorized to (check all that apply):

Charge fee(s) indicated below     Charge fee(s) indicated below, **except for the filing fee**  
 Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17     Credit any overpayment of fee(s)

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION**
**1. BASIC FILING, SEARCH, AND EXAMINATION FEES (U = undiscounted fee; S = small entity fee; M = micro entity fee)**

Application Type	FILING FEES			SEARCH FEES			EXAMINATION FEES			Fees Paid (\$)
	U (\$)	S (\$)	M (\$)	U (\$)	S (\$)	M (\$)	U (\$)	S (\$)	M (\$)	
Utility	280	140*	70	600	300	150	720	360	180	
Design	180	90	45	120	60	30	460	230	115	
Plant	180	90	45	380	190	95	580	290	145	
Reissue	280	140	70	600	300	150	2,160	1,080	540	
Provisional	260	130	65	0	0	0	0	0	0	

\* The \$140 small entity status filing fee for a utility application is further reduced to \$70 for a small entity status applicant who files the application via EFS-Web.

**2. EXCESS CLAIM FEES**

Fee Description	Undiscounted Fee (\$)	Small Entity Fee (\$)	Micro Entity Fee (\$)
Each claim over 20 (including Reissues)	80	40	20
Each independent claim over 3 (including Reissues)	420	210	105
Multiple dependent claims	780	390	195
<b>Total Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
_____ - 20 or HP = _____	x _____ = _____	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
HP = highest number of total claims paid for, if greater than 20.			
<b>Indep. Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
_____ - 3 or HP = _____	x _____ = _____	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>
HP = highest number of independent claims paid for, if greater than 3.			

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$400 (\$200 for small entity) (\$100 for micro entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____ - 100 = _____	/50 = _____	(round up to a whole number) x _____	= _____	

**4. OTHER FEE(S)**

Non-English specification, \$130 fee (no small or micro entity discount)

**Non-electronic filing fee under 37 CFR 1.16(t) for a utility application, \$400 fee (\$200 small or micro entity)**

Other (e.g., late filing surcharge):	Fee (\$)	Fee Paid (\$)
1251 Extension for response within first month	200.00	
1814 Statutory disclaimer, including terminal ...	160.00	

<b>SUBMITTED BY</b>			
Signature	/Marcus E. Browne/	Registration No. (Attorney/Agent)	71,897
Telephone	617.646.8000		
Name (Print/Type)	Marcus E. Browne	Date	August 18, 2017

**Certificate of Electronic Filing under 37 CFR §1.8**

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office's electronic filing system in accordance with 37 CFR § 1.6(a)(4).

Dated: August 18, 2017    Electronic Signature for: /Eileen M. MacKenzie/



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.


<b>PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)</b>		Docket Number (Optional) L2039.70004US03																															
Application Number 14/680,422-Conf. #5691		Filed April 7, 2015																															
For SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT																																	
Art Unit 2143		Examiner J. N. To																															
<p>This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.</p> <p>The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;"></th> <th style="text-align: center; border-bottom: 1px solid black;">Fee</th> <th style="text-align: center; border-bottom: 1px solid black;">Small Entity Fee</th> <th style="text-align: center; border-bottom: 1px solid black;">Micro Entity Fee</th> <th style="width:10%;"></th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> One month (37 CFR 1.17(a)(1))</td> <td style="text-align: center;">\$200</td> <td style="text-align: center;">\$100</td> <td style="text-align: center;">\$50</td> <td style="text-align: center;">\$ 200.00</td> </tr> <tr> <td><input type="checkbox"/> Two months (37 CFR 1.17(a)(2))</td> <td style="text-align: center;">\$600</td> <td style="text-align: center;">\$300</td> <td style="text-align: center;">\$150</td> <td style="text-align: center;">\$ _____</td> </tr> <tr> <td><input type="checkbox"/> Three months (37 CFR 1.17(a)(3))</td> <td style="text-align: center;">\$1,400</td> <td style="text-align: center;">\$700</td> <td style="text-align: center;">\$350</td> <td style="text-align: center;">\$ _____</td> </tr> <tr> <td><input type="checkbox"/> Four months (37 CFR 1.17(a)(4))</td> <td style="text-align: center;">\$2,200</td> <td style="text-align: center;">\$1,100</td> <td style="text-align: center;">\$550</td> <td style="text-align: center;">\$ _____</td> </tr> <tr> <td><input type="checkbox"/> Five months (37 CFR 1.17(a)(5))</td> <td style="text-align: center;">\$3,000</td> <td style="text-align: center;">\$1,500</td> <td style="text-align: center;">\$750</td> <td style="text-align: center;">\$ _____</td> </tr> </tbody> </table> <p><input type="checkbox"/> Applicant asserts small entity status. See 37 CFR 1.27.</p> <p><input type="checkbox"/> Applicant certifies micro entity status. See 37 CFR 1.29.  <small>Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.</small></p> <p><input type="checkbox"/> A check in the amount of the fee is enclosed.</p> <p><input checked="" type="checkbox"/> Payment by credit card. <del>Form PTO-2038 is attached.</del></p> <p><input type="checkbox"/> The Director has already been authorized to charge fees in this application to a Deposit Account.</p> <p><input checked="" type="checkbox"/> The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number <u>23/2825</u>.</p> <p><input checked="" type="checkbox"/> Payment made via EFS-Web.</p> <p><b>WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</b></p> <p>I am the</p> <p><input type="checkbox"/> applicant.</p> <p><input checked="" type="checkbox"/> attorney or agent of record. Registration number <u>71,897</u>.</p> <p><input type="checkbox"/> attorney or agent acting under 37 CFR 1.34. Registration number _____.</p> <p style="text-align: center;">_____/Marcus E. Browne/ Signature</p> <p style="text-align: center;">_____/August 18, 2017 Date</p> <p style="text-align: center;">_____/Marcus E. Browne Typed or printed name</p> <p style="text-align: center;">_____/617.646.8000 Telephone Number</p> <p><b>NOTE:</b> This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.</p>					Fee	Small Entity Fee	Micro Entity Fee		<input checked="" type="checkbox"/> One month (37 CFR 1.17(a)(1))	\$200	\$100	\$50	\$ 200.00	<input type="checkbox"/> Two months (37 CFR 1.17(a)(2))	\$600	\$300	\$150	\$ _____	<input type="checkbox"/> Three months (37 CFR 1.17(a)(3))	\$1,400	\$700	\$350	\$ _____	<input type="checkbox"/> Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100	\$550	\$ _____	<input type="checkbox"/> Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500	\$750	\$ _____
	Fee	Small Entity Fee	Micro Entity Fee																														
<input checked="" type="checkbox"/> One month (37 CFR 1.17(a)(1))	\$200	\$100	\$50	\$ 200.00																													
<input type="checkbox"/> Two months (37 CFR 1.17(a)(2))	\$600	\$300	\$150	\$ _____																													
<input type="checkbox"/> Three months (37 CFR 1.17(a)(3))	\$1,400	\$700	\$350	\$ _____																													
<input type="checkbox"/> Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100	\$550	\$ _____																													
<input type="checkbox"/> Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500	\$750	\$ _____																													

\* Total of 1 forms are submitted.

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Dated: August 18, 2017 Electronic Signature for: /Eileen M. MacKenzie/

<b>Application Number</b> 	<b>Application/Control No.</b> 14/680,422	<b>Applicant(s)/Patent under Reexamination</b> BEHAR ET AL.	
<b>Document Code - DISQ</b>		<b>Internal Document – DO NOT MAIL</b>	

<b>TERMINAL DISCLAIMER</b>	<input checked="" type="checkbox"/> <b>APPROVED</b>	<input type="checkbox"/> <b>DISAPPROVED</b>
Date Filed : 18 August, 2017	<b>This patent is subject to a Terminal Disclaimer</b>	

<b>Approved/Disapproved by:</b>
<u>/CRYSTAL QUEEN/</u> <b>Technology Center:</b> <u>PLRC</u> <b>Telephone:</b> _____

U.S. Patent and Trademark Office

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<b>PATENT APPLICATION FEE DETERMINATION RECORD</b> Substitute for Form PTO-875	Application or Docket Number <b>14/680,422</b>	Filing Date <b>04/07/2015</b>	<input type="checkbox"/> To be Mailed
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ENTITY:  LARGE  SMALL  MICRO

**APPLICATION AS FILED – PART I**

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (j), or (m))	N/A	N/A	N/A	
<input type="checkbox"/> 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 \$ =	
<input type="checkbox"/> 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).			
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

**APPLICATION AS AMENDED – PART II**

AMENDMENT	(Column 1)	(Column 2)	(Column 3)	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	<b>08/18/2017</b>	CLAIMS REMAINING AFTER AMENDMENT					
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X \$80 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X \$420 =	0
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))						
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	<b>0</b>

AMENDMENT	(Column 1)	(Column 2)	(Column 3)	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
		CLAIMS REMAINING AFTER AMENDMENT					
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =	
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))						
	<input type="checkbox"/> 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  
MYRTLE LEIGH

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.



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Table with columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO., EXAMINER, ART UNIT, PAPER NUMBER, NOTIFICATION DATE, DELIVERY MODE. Includes application details for Yves Behar and examiner DRAGOESCU, CLAUDIA B.

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):

Patents\_eOfficeAction@WolfGreenfield.com
WGS\_eOfficeAction@WolfGreenfield.com



## DETAILED ACTION

1. The present application is being examined under the pre-AIA first to invent provisions. This action is in response to the Application filed on 4/7/15. Claims 1 and 6-22 are presented for examination. Claims 2-5 were cancelled.

### ***Double Patenting Rejection***

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

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

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

Claims 1-22 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-20 of parent Application 12/416,496, U.S. Patent 9,003,315. Although the claims at issue are not identical, they are not patentably distinct from each other because claims 1-22 of U.S. Patent 9,003,315 contain every element of claims 1-22 of the instant application, and as such anticipate the claims of the instant application.

The claims of the instant application are compared to the similar claims of patent U.S. Patent 9,003,315 in the following table:

<b>Present Application</b>	<b>U.S. Patent 9,003,315</b>
<p>1. A customized user interface to display computer content on a display component of a computer system, the user interface comprising:</p> <ul style="list-style-type: none"> <li>at least one processor operatively connected to a memory of the computer system;</li> <li>a graphical user interface, executing on the at least one processor, configured to display the computer content on the display component of the computer system, the user interface configured to:                             <ul style="list-style-type: none"> <li>display a plurality of views of a plurality of visual representations of computer content, wherein the computer content includes at least one of selectable digital content, selectable computer operations and passive digital content;</li> <li>an execution component, executing on the at least one processor, configured to:                                     <ul style="list-style-type: none"> <li>detect a current computer system configuration from at least a first computer system configuration and a second computer system configuration;</li> <li>select one of the plurality of views for display on the computer system in response to the detected current computer system configuration; and</li> <li>transition the display component to the selected one of the plurality of views.</li> </ul> </li> </ul> </li> </ul> <p>21. A customized user interface to display computer content on a display component of a computer system, the user interface comprising:</p> <ul style="list-style-type: none"> <li>at least one processor operatively coupled to a memory of the computer system;</li> <li>a graphical user interface, executing on at least one processor, configured to display a plurality of views of a plurality of visual representations of the computer content;</li> <li>an execution component, executing on the at least one processor, configured to:                             <ul style="list-style-type: none"> <li>identify at least a first and a second computer system configuration based on sensor input indicating a position of the display component;</li> <li>select, responsive to the sensor input,</li> </ul> </li> </ul>	<p>1. A customized user interface for a computer system with a plurality selectable I/O profiles configured to present computer operations to a user in a format configured to a selected I/O profile on a display component of the computer system, the user interface comprising: at least one processor; a map based graphical user interface, executing on the at least one processor operatively connected to a memory of the computer system, the map based graphical user interface, when executing, is configured to display information on the display component of the computer system, wherein the map based user interface is further configured to: display a plurality of views of a plurality of visual representations of computer content on the computer system, wherein the computer content includes at least one of selectable digital content, executable computer applications, configurable computer settings, selectable computer operations and passive digital content; display the plurality of visual representations of computer content rendered on the display component, wherein the plurality of visual representations of computer content include an association to a first home view of the plurality of views, the first home view including a display of the computer content, and wherein the each of the plurality of visual representations is responsive to focus and execution, wherein execution includes selecting the visual representation, and wherein the first home view is a first organizational view of at least one application and computer content displayed responsive to activation of the system; and an execution component, executing on the at least one processor, configured to: identify at least a first and a second computer system configuration based on sensor input indicating a position of the display component relative to a base component; select, responsive to the sensor input, a first home view from the plurality of views for the first computer system configuration, wherein the first home view is configured to organize a first set of the plurality of visual representations; filter the first set of visual representations to present content that is optimized for viewing in the second system configuration at least in part</p>



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<p>a first content view from the plurality of views for the first computer system configuration; transition, automatically in response to the sensor input, the display component between at least the first content view of the plurality of views and a second content view of the plurality of views; receive user input via at least one input device integral to or operatively connected with the computer system; and transition, automatically in response to receiving the user input, the display component from one of the first content view and the second content view to a channel view including a channel selector that displays a sequence of visual representations.</p>	<p>by identifying content to filter, removing the identified content from the first set of visual representations, and generating a second set of visual representations based on the filtered first set of visual representations, wherein the second set of visual representations includes at least one different member than the first set of visual representations; and transition, automatically in response to the sensor input, the display component between at least the first home view of the plurality of views and a second default content view of the plurality of views, wherein the second default content view is configured to organize the second set of visual representations, wherein the second default content view is a second organizational view of at least one application and computer content, and wherein the sensor input indicates a transition to the second computer system configuration.</p>
<p>6. The user interface of claim 1, wherein in the plurality of views includes a home view configured to organize a plurality of content modes and a channel view configured to organize at least one of a single content mode and two content modes.</p>	<p>6. The user interface of claim 3, wherein the plurality of views includes a home view configured to organize a plurality of content modes and a channel view configured to organize at least one content mode including the at least some of the plurality of visual representations having the view state of the respective computer content.</p>
<p>7. The user interface of claim 1, wherein the plurality of views includes a screen saver view configured to organize selected content modes for passive viewing.</p>	<p>7. The user interface of claim 3, wherein the plurality of views includes a screen saver view configured to organize selected content modes for passive viewing.</p>
<p>8. The user interface of claim 1, wherein the plurality of views includes a home view organizing a plurality of visual representations of digital content, wherein the home view comprises a header display and a body display, and wherein the header display comprises a lateral frame extending from the left of the display component to the right of the display component, wherein the body display is rendered below the header display in the display component of the computer system.</p>	<p>8. The user interface of claim 1, wherein the plurality of views includes the home view organizing a plurality of visual representations of digital content, wherein the first home view is displayed responsive to system activation, and wherein the first home view is displayed responsive to a computer system configuration.</p>
<p>9. The user interface of claim 8, wherein the computer system configuration comprises a physical positioning of a computer system display relative to a base of the computer system about a longitudinal axis of rotation.</p>	<p>9. The user interface of claim 8, wherein the computer system configuration comprises a physical positioning of the display component relative to a base of the computer system about a longitudinal axis of rotation.</p>

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<p>10. The user interface of claim 8, wherein the graphical user interface is further configured to display a search tool displayed in the header display, wherein the search tool is configured to accept search terms entered by a user and in response to execution, causes the computer system to navigate to a view of a first visual representation of digital content, wherein the digital content includes a search engine, and the search engine presents results for the search terms.</p>	<p>10. The user interface of claim 8, further comprising a search tool displayed in the header display, wherein the search tool is configured to accept search terms entered by a user and in response to execution, causes the computer system to navigate to a view of a first visual representation of digital content, wherein the digital content includes a search engine, and the search engine presents results for the search terms.</p>
<p>11. The user interface of claim 1, further comprising a storage component configured to retain a previous view state.</p>	<p>11. The user interface of claim 1, further comprising a storage component configured to retain a previous view state.</p>
<p>12. The user interface of claim 11, wherein the execution component is further configured to cause the computer system to transition to a previous view in response to execution of a navigation element by a user.</p>	<p>12. The user interface of claim 11, wherein the execution component is further configured to cause the computer system to transition to a previous view in response to execution of a navigation element by a user.</p>
<p>13. The user interface of claim 11, further comprising the navigation element displayed in a header display.</p>	<p>13. The user interface of claim 11, further comprising the navigation element displayed in the header display.</p>
<p>14. The user interface of claim 8, wherein the body display comprises an organization of the plurality of visual representations of computer content rendered on the computer display, and the home view further comprises display pages in response to a display threshold establishing a maximal number of visual representations displayed per display page.</p>	<p>14. The user interface of claim 8, wherein the body display comprises an organization of the plurality of visual representations of computer content rendered on the computer display, and the home view further comprises display pages in response to a display threshold establishing a maximal number of visual representations displayed per display page.</p>
<p>15. The user interface of claim 14, wherein the home view further comprises an indication of visual representations displayed on adjacent display pages of the home view, wherein the indication is displayed within the body of the home view.</p>	<p>15. The user interface of claim 14, wherein the first home view further comprises an indication of visual representations displayed on adjacent display pages of the home view, wherein the indication is displayed within the body of the home view.</p>
<p>16. The user interface of claim 8, wherein the graphical user interface is further configured to display a nascent card in the home view, wherein the nascent card is configured to permit generation of additional visual representations of digital content.</p>	<p>16. The user interface of claim 8, further comprising a nascent card displayed in the body of the first home view, wherein the nascent card is configured to permit generation of additional visual representations of digital content.</p>
<p>17. The user interface of claim 16, wherein the execution component is further configured to execute a process for creating a visual representation in response to execution of the</p>	<p>17. The user interface of claim 16, wherein the execution component is further configured to execute a process for creating a visual representation in response to execution of the</p>

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nascent card, wherein the process for creating a visual representation includes acts of: transitioning to a quick access view; generating a mapping to online digital content; executing the mapping; and displaying a first view of the mapped digital content.	nascent card, wherein the process for creating a visual representation includes acts of: transitioning to a quick access view; generating a mapping to online digital content; executing the mapping; and displaying a first view of the mapped digital content.
18. The user interface of claim 1, wherein the plurality of views includes a quick access view configured to permit user generation of a mapping between digital content and a visual representation.	18. The user interface of claim 1, further comprising a quick access view, wherein the quick access view is configured to permit user generation of a mapping between digital content and a visual representation.
19. The user interface of claim 1, wherein the plurality of views includes a channel view including a channel selector that displays a sequence of visual representations.	19. The user interface of claim 3, wherein the plurality of views includes a channel view, and the view selector component is further responsive to an integrated scroll wheel on the computer system.  22. The user interface of claim 21, wherein the display of the sequence of visual representations is responsive to manipulation of the integrated scroll wheel, and manipulation of the integrated scroll wheel causes the computer system to render a next visual representation in the display of the sequence of visual representations.
20. The user interface of claim 19, wherein the execution component is further configured to transition the computer system to the channel view in response to receiving user input via at least one input device integral to or operatively connected with the computer system.	20. The user interface of claim 19, wherein the view selector component is further configured to transition the computer system to the channel view in response to manipulation of the integrated scroll wheel.
22. The user interface of claim 21, wherein the at least one input device includes at least one of a scroll wheel, a touchpad, and a mouse.	19. The user interface of claim 3, wherein the plurality of views includes a channel view, and the view selector component is further responsive to an integrated scroll wheel on the computer system.

**Information Disclosure Statement**

3. Cited in MPEP 2004 Aids or Compliance With Duty of Disclosure: It is desirable to avoid the submission of long lists of documents if it can be avoided. Eliminate clearly irrelevant and marginally pertinent cumulative information. If a long list is submitted, highlight those documents which have been specifically brought to applicant's attention and/or are known to be of most significance. See *Penn Van Boats, Inc. v. Sea Lark Boats, Inc.*, 359 F. Supp. 948, 175 USPQ 260 (S.D. Fla. 1972), aff'd, 479 F.2d 1338, 178 USPQ 577 (5th Cir. 1973), cert. denied, 414 U.S. 874 (1974). But cf. *Molins PLC v. Textron Inc.*, 48 F.3d 1172, 33 USPQ2d 1823 (Fed. Cir. 1995).

An applicant's duty of disclosure of material and information is not satisfied by presenting a patent examiner with "a mountain of largely irrelevant [material] from which he is presumed to have been able, with his expertise and with adequate time, to have found the critical [material]. It ignores the real world conditions under which examiners work." *Rohm & Haas Co. v. Crystal Chemical Co.*, 722 F.2d 1556, 1573 [220 USPQ 289] (Fed. Cir. 1983), cert. denied, 469 U.S. 851 (1984). (Emphasis in original). Patent applicant has a duty not just to disclose pertinent prior art references but to make a disclosure in such way as not to "bury" it within other disclosures of less relevant prior art; See *Golden Valley Microwave Foods Inc. v. Weaver Popcorn Co. Inc.*, 24 USPQ2d 1801 (N.D. Ind. 1992); *Molins PLC v. Textron Inc.*, 26 USPQ2d 1889, at 1899 (D.Del 1992); *Penn Van Boats, Inc. v. Sea Lark Boats, Inc. et al.*, 175 USPQ 260, at 272 (S.D. Fl. 1972).

It is impractical for the examiner to review the references thoroughly with the number of references cited in the case (more than 175 references). By initialing each of

the cited references on the accompanying 1449 forms, the examiner is merely acknowledging the submission of the cited references and merely indicating that only a cursory review is made of the cited references.

***Claim Rejections - 35 U.S.C. 103***

4. 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 negated by the manner in which the invention was made.

**Claims 1, 6-7 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over “Creating a Digital Home Entertainment System with Windows Media Center” by Miller, 2006 in view of Dunko (U.S. Patent Application 20080059888).**

Re claim 1, Miller teaches a customized user interface to display computer content on a display component of a computer system (*i.e. the Windows Media Center portal presents to the user a streamlined interface with only a handful of important options (page 3)*), the user interface comprising:

a graphical user interface configured to display the computer content on the display component of the computer system (*i.e. display (FIG. 8.2)*), the user interface configured to:

display a plurality of views of a plurality of visual representations of computer content (*i.e. Windows Media Center presents a plurality of views of content: the*

**Start screen displays all the categories (page 3), whereas other views display one category like “Online Spotlight”, which displays online content (page 6)),** wherein the computer content includes at least one of selectable digital content (*i.e. songs, movies (pages 9-11)*), selectable computer operations (*i.e. games (pages 7-8), photo editing (page 4)*) and passive digital content (*i.e. slide show (page 5)*).

Miller does not expressly teach at least one processor operatively connected to a memory of the computer system;

an execution component, executing on the at least one processor, configured to:  
detect a current computer system configuration from at least a first computer system configuration and a second computer system configuration;  
select one of the plurality of views for display on the computer system in response to the detected current computer system configuration; and  
transition the display component to the selected one of the plurality of views.

Dunko teaches at least one processor operatively connected to a memory of the computer system (*i.e. processor (FIG. 1 and par. 24)*);

an execution component, executing on the at least one processor, configured to:  
detect a current computer system configuration from at least a first computer system configuration and a second computer system configuration (*i.e. an orientation sensing mechanism senses whether the portable mobile communications device is currently in a portrait or landscape orientation (FIG. 9 step 910 and par. 8)*);  
select one of the plurality of views for display on the computer system in response to the detected current computer system configuration (*i.e. and determines*

***which mode of operation is the default mode for the sensed orientation of the portable mobile communications device (FIG. 9 step 915 and par. 8); and***

transition the display component to the selected one of the plurality of views (***i.e. the GUI is then reconfigured for the default mode of operation (FIG. 9 step 915 and par. 8). Various modes of operation are phone mode (default for portrait orientation), gaming mode (default for landscape orientation), camera mode, music player mode, web browser mode and email mode (FIG. 8 and par. 10).***

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention is made to add the teachings of Dunko to switch computer configurations based on device orientation, because doing so would allow the portable mobile communications device to automatically reconfigure itself for a different mode of operation without the user having to delve into the intricacies of the user interface to manipulate the functions (***par. 7***).

Re claim 6, Miller and Dunko teach the user interface of claim 1. Miller further teaches wherein in the plurality of views includes a home view configured to organize a plurality of content modes (***i.e. the Media Center Start page displays multiple categories of content such as videos, pictures, movies, radio and TV (FIG. 8.2, page 3)***) and

a channel view configured to organize at least one of a single content mode and two content modes (***i.e. TV player (FIG. 10.13 page 21), video clips player (FIG.***

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**11.18-11.19 page 22-23), picture viewer (Fig. 12.11 page 4), news video player (FIG. 15.22 page 15)).**

Re claim 7, Miller and Dunko teach the user interface of claim 1. Miller further teaches wherein the plurality of views includes a screen saver view configured to organize selected content modes for passive viewing (*i.e. photo slide show (page 5)*).

Re claim 18, Miller and Dunko teach the user interface of claim 1. Miller further teaches wherein the plurality of views includes a quick access view configured to permit user generation of a mapping between digital content and a visual representation (*i.e. displaying an overview of pictures (FIG. 15.30 page 17), movies (FIG. 15.3 page 9, FIG. 16.5 page 11), games (FIG. 15.28 page 8) as thumbnails*).

**Claims 8, 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miller in view of Dunko, and further in view of Filner et al (U.S. Patent Application 20050210399).**

Re claim 8, Miller and Dunko teach the user interface of claim 1. Miller further teaches wherein the plurality of views includes a home view organizing a plurality of visual representations of digital content (*i.e. the Media Center Start page displays multiple*



**categories of content such as videos, pictures, movies, radio and TV (FIG. 8.2, page 3)).**

Miller doesn't expressly teach a header display and a body display, and wherein the header display comprises a lateral frame extending from the left of the display component to the right of the display component, wherein the body display is rendered below the header display in the display component of the computer system.

Filner et al teaches wherein the plurality of views includes a home view organizing a plurality of visual representations of digital content (***i.e. a Web portal displays multiple content tiles (FIG. 3)***), wherein the home view comprises a header display and a body display (***i.e. title panel and body panel (FIG. 3 elements 310 and 304)***), and wherein the header display comprises a lateral frame extending from the left of the display component to the right of the display component (***i.e. title panel extends across from left to right (FIG. 3 element 310)***), wherein the body display is rendered below the header display in the display component of the computer system (***i.e. top title panel and bottom body panel (FIG. 3 elements 310 and 304)***).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to add the teachings of Filner et al to provide a layout including a header and a body, because doing so would provide a familiar layout for portals.

Re claim 14, Miller and Dunko and Filner et al teach the user interface of claim 8. Miller further teaches wherein the body display comprises an organization of the plurality of visual representations of computer content rendered on the computer display (*i.e. showing multiple visual representations of content per page, like games (page 8) or movies (page 11)*), and the home view further comprises display pages in response to a display threshold establishing a maximal number of visual representations displayed per display page (*i.e. the number of pieces of content per page has a limit, for example 9 games per page (page 8), or 12 movies per page (page 11)*).

Filner et al also teaches wherein the body display comprises an organization of the plurality of visual representations of computer content rendered on the computer display (*i.e. a Web portal page displays multiple content tiles (FIG. 3 elements 307, 308, etc.)*).

Re claim 15, Miller and Dunko and Filner et al teach the user interface of claim 14. Miller further teaches wherein the home view further comprises an indication of visual representations displayed on adjacent display pages of the home view, wherein the indication is displayed within the body of the home view (*i.e. showing indications of more pages of games: "5 of 9" (page 8), or more pages of movies: "View More..." (page 9), or "1 of 14" (page 11), together with up and down navigation arrows to navigate to those pages*).

**Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Miller in view of Dunko and in view of Filner et al, and further in view of Oakley (U.S. Patent Application 20040001049).**

Re claim 9, Miller and Dunko and Filner et al teach the user interface of claim 8, but they don't expressly teach wherein the computer system configuration comprises a physical positioning of a computer system display relative to a base of the computer system about a longitudinal axis of rotation.

Oakley teaches wherein the computer system configuration comprises a physical positioning of a computer system display relative to a base of the computer system about a longitudinal axis of rotation (*i.e. a housing pivotally attached with the display proximate a first edge of the housing (FIG. 3 and abstract)*).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention is made to add the teachings of Oakley to allow rotation, because doing so would allow the portable computer to be configured in multiple positions.

**Claims 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miller in view of Dunko, and further in view of Mattox et al (U.S. Patent 7,698,407).**

Re claim 11, Miller and Dunko teach the user interface of claim 1, but they don't expressly teach a storage component configured to retain a previous view state.

Mattox et al teaches a storage component configured to retain a previous view state (***i.e. the toolbar 304 includes backward and forward buttons, used for navigating to states visited previously, which are saved (FIG. 3A)***).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to add the teachings of Mattox et al to add history, because doing so would allow the user to navigate back to previously visited pages.

Re claim 12, Miller and Dunko and Mattox et al teach the user interface of claim 11, but Miller and Dunko don't expressly teach transition to a previous view in response to execution of a navigation element by a user.

Mattox et al teaches transition to a previous view in response to execution of a navigation element by a user (***i.e. upon selecting backward arrow in toolbar 304 in FIG. 3A, the user is taken to the previous Web page, this is typical Web browser behavior, which is well known in the art***).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to add the teachings of Mattox et al to add history, because doing so would allow the user to navigate back to previous commands.

Re claim 13, Miller and Dunko and Mattox et al teach the user interface of claim 11, but Miller and Dunko don't expressly teach the navigation element displayed in a header display.

Mattox et al teaches the navigation element displayed in a header display (*i.e. the toolbar 304 includes backward and forward buttons (FIG. 3A)*).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to add the teachings of Mattox et al to provide history, because doing so would allow the user navigate back through the commands.

**Claims 10, 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miller in view of Dunko and in view of Filner et al, and further in view of Mattox et al.**

Re claim 10, Miller and Dunko and Filner et al teach the user interface of claim 8, but they don't expressly teach display a search tool displayed in the header display, accept search terms entered by a user and in response to execution, causes the computer system to navigate to a view of a first visual representation of digital content, wherein the digital content includes a search engine, and the search engine presents results for the search terms.

Mattox et al teaches display a search tool displayed in the header display, accept search terms entered by a user and in response to execution, causes the computer

system to navigate to a view of a first visual representation of digital content, wherein the digital content includes a search engine, and the search engine presents results for the search terms (*i.e. navigation bar 308 includes a Search engine (FIG. 3A and column 6 lines 5-10)*).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to add the teachings of Mattox et al to provide search functionality, because it is a basic functionality in a Web browser, and doing so would allow the user to perform searches.

Re claim 16, Miller and Dunko and Filner et al teach the user interface of claim 8, but they don't expressly teach display a nascent card in the home view, wherein the nascent card is configured to permit generation of additional visual representations of digital content.

Mattox et al teaches display a nascent card in the home view, wherein the nascent card is configured to permit generation of additional visual representations of digital content (*i.e. the user can select "Create Site" or "Create Page" list item 316, to create a new page or a new site (Fig. 3A and column 6 lines 32-41)*).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to add the teachings of Mattox et al to use a nascent card, because doing so would provide an easy way for the user to create new content cards.

Re claim 17, Miller and Dunko and Filner et al and Mattox et al teach the user interface of claim 16, but Miller and Dunko and Filner et al don't expressly teach wherein the execution component is further configured to execute a process for creating a visual representation in response to execution of the nascent card, wherein the process for creating a visual representation includes acts of: transitioning to a quick access view; generating a mapping to online digital content; executing the mapping; and displaying a first view of the mapped digital content.

Mattox et al teaches wherein the execution component is further configured to execute a process for creating a visual representation in response to execution of the nascent card, wherein the process for creating a visual representation includes acts of:

transitioning to a quick access view (*i.e. selecting the Create Page list item in FIG. 3A to create a new page, which displays the configuration page of FIG. 3B*);

generating a mapping to online digital content (*i.e. configuring or designing the portal (FIG. 3B, 3E, 3F and column 6 lines 55-64)*);

executing the mapping; and displaying a first view of the mapped digital content (*i.e. displaying the new page (FIG. 3C, 3D, 3G, 3H, 3I, 3J and column 7 lines 5-7)*).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention is made to add the teachings of Mattox et al to use a nascent card, because doing so would provide an easy way for the user to create new content cards.

**Claims 19-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miller in view of Dunko, and further in view of Nishiyama et al (U.S. Patent Application 20050221865).**

Re claim 19, Miller and Dunko teach the user interface of claim 1. Miller further teaches wherein the plurality of views includes a channel view that displays a sequence of visual representations *(i.e. presenting a list of online games (page 8), online content like streaming movies, TV and music (page 9-11). The user can select any of the games or movies in the list (page 8, 9)).*

Miller and Dunko don't expressly teach a channel selector.

Nishiyama et al teaches a channel selector *(i.e. a scroll wheel that can select between functions (FIG. 8 and abstract, par. 29)).*

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention is made to add the teachings of Nishiyama et al to use a scroll wheel as input device to navigate the content on the screen, because the scroll wheel is a popular input device for portable devices.

Re claim 20, Miller and Dunko and Nishiyama et al teach the user interface of claim 19. Miller further teaches transition the computer system to the channel view in response to receiving user input via at least one input device integral to or operatively connected



with the computer system **(i.e. each content category on the Start screen can be selected by clicking on it: for example from the Media Center Start screen select My Pictures (page 5))**.

Re claim 21, Miller teaches a customized user interface to display computer content on a display component of a computer system **(i.e. the Windows Media Center portal presents to the user a streamlined interface with only a handful of important options (page 3))**, the user interface comprising:

a graphical user interface **(i.e. display (FIG. 8.2))**, configured to display a plurality of views of a plurality of visual representations of the computer content **(i.e. Windows Media Center presents a plurality of views of content: the Start screen displays all the categories (page 3), whereas other views display one category like "Online Spotlight", which displays online content (page 6))**;

receive user input via at least one input device integral to or operatively connected with the computer system **(i.e. each content category on the Start screen can be selected by clicking on it (page 5))**; and

transition, automatically in response to receiving the user input, the display component from one of the first content view and the second content view **(i.e. each content category on the Start screen can be selected by clicking on it: for example from the Media Center Start screen select My Pictures (page 5))** to a channel view that displays a sequence of visual representations **(i.e. presenting a list**

**of online games (page 8), online content like streaming movies, TV and music (page 9-11)).**

Miller does not expressly teach at least one processor operatively coupled to a memory of the computer system;

an execution component, executing on the at least one processor, configured to:  
identify at least a first and a second computer system configuration based on sensor input indicating a position of the display component;

select, responsive to the sensor input, a first content view from the plurality of views for the first computer system configuration;

transition, automatically in response to the sensor input, the display component between at least the first content view of the plurality of views and a second content view of the plurality of views.

Dunko teaches at least one processor operatively coupled to a memory of the computer system (***i.e. processor (FIG. 1 and par. 24)***);

an execution component, executing on the at least one processor, configured to:  
identify at least a first and a second computer system configuration based on sensor input indicating a position of the display component (***i.e. an orientation sensing mechanism senses whether the portable mobile communications device is currently in a portrait or landscape orientation (FIG. 9 step 910 and par. 8)***);

select, responsive to the sensor input, a first content view from the plurality of views for the first computer system configuration (***i.e. and determines which mode of***

**operation is the default mode for the sensed orientation of the portable mobile communications device (FIG. 9 step 915 and par. 8));**

transition, automatically in response to the sensor input, the display component between at least the first content view of the plurality of views and a second content view of the plurality of views **(i.e. the GUI is then reconfigured for the default mode of operation (FIG. 9 step 915 and par. 8). Various modes of operation are phone mode (default for portrait orientation), gaming mode (default for landscape orientation), camera mode, music player mode, web browser mode and email mode (FIG. 8 and par. 10));**

receive user input via at least one input device integral to or operatively connected with the computer system **(i.e. in manual mode the user selects a mode from the list of modes (FIG. 9 step 940 and par. 37));** and

transition, automatically in response to receiving the user input, the display component from one of the first content view and the second content view to a third content view **(i.e. the GUI is then reconfigured to the selected mode (FIG. 9 step 945 and par. 37)).**

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention is made to add the teachings of Dunko to switch computer configurations based on device orientation, because doing so would allow the portable mobile communications device to automatically reconfigure itself for a different mode of operation without the user having to delve into the intricacies of the user interface to manipulate the functions **(par. 7).**

Miller and Dunko don't expressly teach a channel selector.

Nishiyama et al teaches a channel selector (***i.e. a scroll wheel that can select between functions (FIG. 8 and abstract, par. 29)***).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention is made to add the teachings of Nishiyama et al to use a scroll wheel as input device to navigate the content on the screen, because the scroll wheel is a popular input device for portable devices.

Re claim 22, Miller and Dunko and Nishiyama et al teach the user interface of claim 21, but Miller and Dunko don't expressly teach at least one of a scroll wheel, a touchpad, and a mouse.

Nishiyama et al teaches at least one of a scroll wheel, a touchpad, and a mouse (***i.e. a scroll wheel that can select between functions (FIG. 8 and abstract, par. 29)***).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention is made to add the teachings of Nishiyama et al to use a scroll wheel as input device, because a scroll wheel is a popular input device for portable devices.

***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CLAUDIA DRAGOESCU whose telephone number is 571-270-7966. The examiner can normally be reached on Monday-Friday 9AM-5PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Ng can be reached on 571-270-1698. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/CLAUDIA DRAGOESCU/  
Primary Examiner, Art Unit 2141  
April 13, 2017

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Examiner Initials*	Cite No	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, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1	http://laptop.org/en/laptop/start/ebook.shtml accessed on September 29, 2008	<input type="checkbox"/>
	2	International Search Report from a commonly owned PCT application PCT/US09/39117	<input type="checkbox"/>
	3	Miller, M., "Creating a Digital Home Entertainment System with Windows Media Center", Apr 2006, Que.	<input type="checkbox"/>
	4	Supplemental European Search Report from corresponding European Application No. 09755433 dated March 25, 2011.	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button **Add**

**EXAMINER SIGNATURE**

Examiner Signature	/CLAUDIA B DRAGOESCU/	Date Considered	04/13/2017
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D./

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		14680422
	Filing Date		2015-04-07
	First Named Inventor	Yves Behar	
	Art Unit		2143
	Examiner Name	J. N. To	
	Attorney Docket Number		L2039-700421

**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the 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 the information disclosure statement. See 37 CFR 1.97(e)(1).

**OR**

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

**SIGNATURE**

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Marcus E. Browne/	Date (YYYY-MM-DD)	2015-11-10
Name/Print	Marcus E. Browne	Registration Number	71897

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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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.

<b>FORM PTO-1449/A and B (modified PTO/SB/08)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				APPLICATION NO.: 14/680,422	ATTY. DOCKET NO.: L2039.70004US03
				FILING DATE: April 07, 2015	CONFIRMATION NO.: 5691
				FIRST NAMED INVENTOR: Yves Behar	
				GROUP ART UNIT: 2141	EXAMINER: Claudia B. Dragoescu
Sheet	1	of	1		

**U.S. PATENT DOCUMENTS**

Examiner's Initials #	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
		9,563,229		Behar et al.	02-07-2017

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials #	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			
		EP	1316877	A1	Nokia Corp	06-04-2003	

**OTHER ART – NON PATENT LITERATURE DOCUMENTS**

Examiner's Initials #	Cite No.	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.	Translation (Y/N)
		European Examination Report dated January 17, 2017 in connection with European Application No. 09755433.1 (L2039.70004EP00).	

[NOTE – No copies of U.S. patents, published U.S. patent applications, or pending, unpublished patent applications stored in the USPTO's Image File Wrapper (IFW) system, are included. See 37 CFR § 1.98 and 1287OG163. Copies of all other patent(s), publication(s), unpublished, pending U.S. patent applications, or other information listed are provided as required by 37 CFR § 1.98 unless 1) such copies were provided in an IDS in an earlier application that complies with 37 CFR § 1.98, and 2) the earlier application is relied upon for an earlier filing date under 35 U.S.C. § 120.]

**ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D./**

EXAMINER:  /CLAUDIA B DRAGOESCU/	DATE CONSIDERED:  04/13/2017
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## BIB DATA SHEET

CONFIRMATION NO. 5691

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.	
14/680,422	04/07/2015	715	2141	L2039.70004US03	
<b>APPLICANTS</b> LiTL LLC, Boston, MA;					
<b>INVENTORS</b> Yves Behar, Oakland, CA; Joshua Morenstein, San Francisco, CA; Christopher Hibmacronan, Oakland, CA; Naoya Edahiro, San Francisco, CA; Matthew David Day, San Francisco, CA; Robert Sanford Havoc Pennington, Asheville, NC; Noah Bruce Guyot, Mill Valey, CA; Daniel Kuo, San Francisco, CA; Jenea Boshart Hayes, Castro Valley, CA; Aaron Tang, Somerville, MA; Donald Francis Fischer, Charlestown, MA; Christian Marc Schmidt, Brooklyn, NY; Lisa Strausfeld, New York, NY; David Livingstone Fore, Oakland, CA; John H. Chuang, Brookline, MA; Chris Bambacus, Framingham, MA; Bart Haney, Boston, MA; Logan Ray, Boston, MA; Serge Beaulieu, San Francisco, CA;					
<b>** CONTINUING DATA *****</b> This application is a CON of 12/416,496 04/01/2009 PAT 9003315 which is a CIP of 12/170,939 07/10/2008 PAT 8289688 which claims benefit of 61/041,365 04/01/2008 and said 12/416,496 04/01/2009 is a CIP of 12/170,951 07/10/2008 PAT 8624844 which claims benefit of 61/041,365 04/01/2008 and said 12/416,496 04/01/2009 claims benefit of 61/041,365 04/01/2008					
<b>** FOREIGN APPLICATIONS *****</b>					
<b>** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **</b> 04/17/2015					
Foreign Priority claimed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 35 USC 119(a-d) conditions met <input type="checkbox"/> Yes <input type="checkbox"/> No Verified and /CLAUDIA B DRAGOESCU/ Acknowledged _____ <small>Examiner's Signature</small>	<input type="checkbox"/> Met after Allowance <small>Initials</small>	<b>STATE OR COUNTRY</b> CA	<b>SHEETS DRAWINGS</b> 56	<b>TOTAL CLAIMS</b> 18	<b>INDEPENDENT CLAIMS</b> 2
<b>ADDRESS</b> WOLF GREENFIELD & SACKS, P.C. 600 ATLANTIC AVENUE					

<b>Index of Claims</b> 	<b>Application/Control No.</b> 14680422	<b>Applicant(s)/Patent Under Reexamination</b> BEHAR ET AL.
	<b>Examiner</b> CLAUDIA DRAGOESCU	<b>Art Unit</b> 2141

✓	<b>Rejected</b>
=	<b>Allowed</b>

-	<b>Cancelled</b>
÷	<b>Restricted</b>

N	<b>Non-Elected</b>
I	<b>Interference</b>

A	<b>Appeal</b>
O	<b>Objected</b>

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

CLAIM		DATE							
Final	Original	04/13/2017							
	1	✓							
	2	-							
	3	-							
	4	-							
	5	-							
	6	✓							
	7	✓							
	8	✓							
	9	✓							
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	21	✓							
	22	✓							

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S260	1	14/680422.app.	US-PGPUB; USPAT	OR	ON	2017/04/04 15:29
S262	51	S261 and portal.AB, TI.	US-PGPUB; USPAT	OR	ON	2017/04/04 17:55
S261	5612	(Yahoo).as.	US-PGPUB; USPAT	OR	ON	2017/04/04 17:55
S264	403	(yves near behar).in.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/04 18:29
S263	259	(yves near behar).in.	US-PGPUB; USPAT	OR	ON	2017/04/04 18:29
S266	1	"20080059888".pn. and (rotat\$3 landscape portrait orient\$7).Bl.	US-PGPUB; USPAT	OR	ON	2017/04/06 13:05
S267	1	"20080059888".pn. and (user same (chang\$3 rotat\$3) same ( landscape portrait orient\$7)).Bl.	US-PGPUB; USPAT	OR	ON	2017/04/06 13:07
S268	1	14/680422.app.	US-PGPUB; USPAT	OR	ON	2017/04/06 18:59
S270	26	S269 and (search\$3 near engine).Bl.	US-PGPUB; USPAT	OR	ON	2017/04/06 19:39
S269	176	(US-20040001049-\$ or US- 20050221865-\$ or US-20050210399-\$ or US-20100174993-\$ or US- 20050257400-\$ or US-20060230021-\$ or US-20020049655-\$ or US- 20080077614-\$ or US-20020165846-\$ or US-20050182742-\$ or US- 20090187837-\$ or US-20070028270-\$ or US-20070028268-\$ or US- 20070028267-\$ or US-20070028183-\$ or US-20080163127-\$ or US- 20060224575-\$ or US-20060224962-\$ or US-20110191163-\$ or US- 20080052637-\$ or US-20080168387-\$ or US-20070098350-\$ or US- 20050097007-\$ or US-20090113307-\$ or US-20090113310-\$ or US- 20070127642-\$).did. or (US- 20090063502-\$ or US-20040167896-\$ or US-20070124701-\$ or US- 20080168495-\$ or US-20090144157-\$ or US-20020095387-\$ or US- 20060026213-\$ or US-20100131977-\$ or US-20090327222-\$ or US- 20060264243-\$ or US-20080024465-\$ or US-20060209022-\$ or US- 20060112351-\$ or US-20080168404-\$	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2017/04/06 19:39

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		6275829-\$ or US-7703013-\$ or US-8122372-\$).did. or (US-7814425-\$ or US-6693652-\$ or US-7380116-\$ or US-6282646-\$ or US-5682529-\$ or US-8040233-\$ or US-8253654-\$ or US-7747970-\$ or US-7782274-\$ or US-7932882-\$ or US-7307668-\$ or US-7564425-\$ or US-7081886-\$ or US-7310082-\$ or US-7532196-\$ or US-8599106-\$ or US-8600446-\$ or US-5758267-\$ or US-7634300-\$ or US-8037121-\$ or US-6833827-\$ or US-7366994-\$ or US-6097389-\$ or US-5847698-\$).did. or (JP-2006227409-\$ or JP-2004302179-\$ or JP-06242853-\$ or JP-06259166-\$ or JP-2005242436-\$).did. or (US-20090322790-\$ or US-20040228076-\$ or US-20050210399-\$).did.				
S271	76	S269 and (search\$3).Bl.	US-PGPUB; USPAT	OR	ON	2017/04/06 19:41
S272	2	12/416496.app.	US-PGPUB; USPAT	OR	ON	2017/04/07 09:14
S273	7	12/416496.app. 12/416479.app. 13/651636.app. 14/108576.app.	US-PGPUB; USPAT	OR	ON	2017/04/07 09:53
S274	11642	((web internet) and portal).AB, TI.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:42
S275	103101	((chang\$3 updat\$3 rotat\$3) with (configur\$5 orient\$5) with (aspect view GUI UI)).Bl.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:43
S276	9	((chang\$3 updat\$3 rotat\$3) with (configur\$5 orient\$5) with (aspect view GUI UI) with (home near (view page screen)) with (detail channel near (view screen tile page)) ).Bl.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:44
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S278	1343	((chang\$3 updat\$3 rotat\$3) same (configur\$5 orient\$5) same (aspect view GUI UI page screen tile) same (home portal landing) same (detail\$3 channel) ).Bl.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:46
S279	35	S274 and S278	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:47

EAST Search History

S282	4382	((web internet) near portal).AB,TI.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:49
S281	8727	((web internet) with portal).AB,TI.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:49
S280	112	S278 AND ( (G06F3/04842 OR G06F3/0482 OR G06F3/0484 OR G06F3/04817 OR G06F3/04847 OR G06F3/0481).CPC. )	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:49
S285	282	S283 and (@ad<"20080401")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:51
S284	14	S280 and (@ad<"20080401")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:51
S283	481	S282 AND ( (G06F17/3089 OR G06F17/30873 OR G06F17/30867 OR G06F17/30864 OR G06F17/30899 OR G06F17/2247).CPC. )	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2017/04/07 10:51

**EAST Search History (Interference)**

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**4/ 13/ 2017 4:40:30 PM**

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<b>FORM PTO-1449/A and B (modified PTO/SB/08)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				APPLICATION NO.: 14/680,422	ATTY. DOCKET NO.: L2039.70004US03
				FILING DATE: April 07, 2015	CONFIRMATION NO.: 5691
				FIRST NAMED INVENTOR: Yves Behar	
				GROUP ART UNIT: 2141	EXAMINER: Amy Ng
Sheet	1	of	2		

**U.S. PATENT DOCUMENTS**

Examiner's Initials #	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
		5,661,632		Register	08-26-1997
		5,708,561		Huilgol et al.	01-13-1998
		6,137,468		Martinez	10-24-2000
		6,154,359		Kamikakai et al.	11-28-2000
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		7,433,179		Hisano et al.	10-07-2008
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		9,003,315		Behar et al.	04-07-2015
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		2008-0088602	A1	Hotelling	04-17-2008
		2009-0007001	A1	Morin et al.	01-01-2009
		2009-0150784	A1	Denney et al.	06-11-2009
		2009-0249244	A1	Robinson et al.	10-01-2009
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**FOREIGN PATENT DOCUMENTS**

Examiner's Initials #	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
		GB	2321982	A	Fujitsu ICL Computers OY	08-12-1998	
		WO	95/24007	A1	Lane	09-08-1995	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /C.D./

EXAMINER:  /CLAUDIA B DRAGOESCU/	DATE CONSIDERED:  04/13/2017
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4688685.1

FORM PTO-1449/A and B (modified PTO/SB/08)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				APPLICATION NO.: 14/680,422	ATTY. DOCKET NO.: L2039.70004US03
				FILING DATE: April 07, 2015	CONFIRMATION NO.: 5691
				FIRST NAMED INVENTOR: Yves Behar	
				GROUP ART UNIT: 2141	EXAMINER: Amy Ng
Sheet	2	of	2		

**OTHER ART – NON PATENT LITERATURE DOCUMENTS**

Examiner's Initials #	Cite No	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.	Translation (Y/N)
		International Preliminary Report on Patentability mailed October 14, 2010 for International Application No. PCT/US2009/039117 (L2039.70004WO00).	
		International Search Report and Written Opinion for International Application No. PCT/US2009/038599 dated June 03, 2009 (L2039.70001WO00).	
		European Examination Report dated November 22, 2016 in connection with European Application No. 09727165.4 (L2039.70001EP00).	
		Extended European Search Report mailed April 05, 2011 in connection with European Application No. 09755433.1 (L2039.70004EP00).	
		Chinese Office Action mailed July 18, 2013 in connection with Chinese Application No. 200980117859.8 (L2039.70001CN00).	
		European Communication dated November 23, 2015 in connection to European Application No. 09727165.4 (L2039.70001EP00).	
		Japanese Office Action mailed April 16, 2013 in connection with Japanese Application No. 2011-503058 (L2039.70001JP00).	
		Japanese Office Action mailed December 4, 2012 in connection with Japanese Application No. 2011-503058 and partial English translation thereof (L2039.70001JP00).	
		Office Action dated June 7, 2012, for Application No. 12/170,951 (L2039.70001US02).	
		Office Action L2039-700111 dated April 4, 2011, for Application No. 12/170,951 (L2039.70001US02).	


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4688685.1

<b>Search Notes</b>  	<b>Application/Control No.</b>  14680422	<b>Applicant(s)/Patent Under Reexamination</b>  BEHAR ET AL.
	<b>Examiner</b>  CLAUDIA DRAGOESCU	<b>Art Unit</b>  2141

CPC- SEARCHED		
Symbol	Date	Examiner
G06F 3/0481-04847 17/2247-3089	4/7/17	CD

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US CLASSIFICATION SEARCHED			
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SEARCH NOTES		
Search Notes	Date	Examiner
Performed inventor name and assignee search	4/4/17	CD
Performed EAST CPC class search	4/7/17	CD
Performed EAST keyword search	4/4-7/17	CD

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

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Sheet	1	of	1		

**U.S. PATENT DOCUMENTS**

Examiner's Initials #	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
		9,563,229		Behar et al.	02-07-2017

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials #	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			
		EP	1316877	A1	Nokia Corp	06-04-2003	

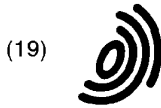
**OTHER ART – NON PATENT LITERATURE DOCUMENTS**

Examiner's Initials #	Cite No	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.	Translation (Y/N)
		European Examination Report dated January 17, 2017 in connection with European Application No. 09755433.1 (L2039.70004EP00).	

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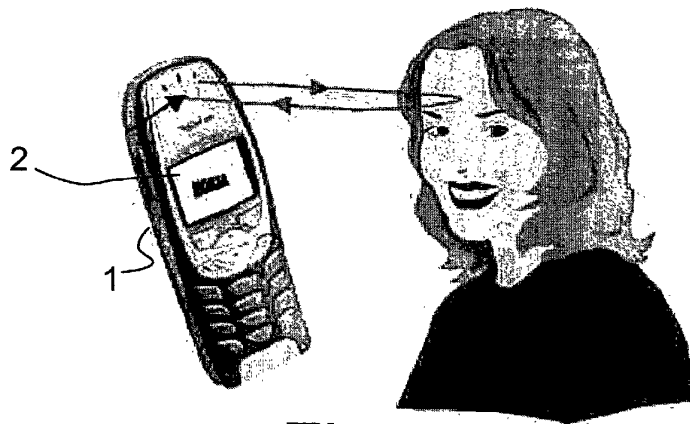
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(54) **A method for controlling the displaying of information in an electronic device**

(57) The invention relates to a method for controlling the displaying of information in an electronic device (1) comprising means (2) for displaying visual information. In the method, the distance between the user and the electronic device (1) is measured, and the size of information to be displayed on the display (2) is changed when the distance between the user and the electronic

device (1) is changed. The invention also relates to an electronic device (1) comprising means (2) for displaying visual information. The electronic device (1) also comprises means (13, 14) for measuring the distance between the user and the electronic device (1), and means (4, 7) for changing the size of displayed information when the distance between the user and the electronic device (1) is changed.



**Fig 2a**

**EP 1 316 877 A1**

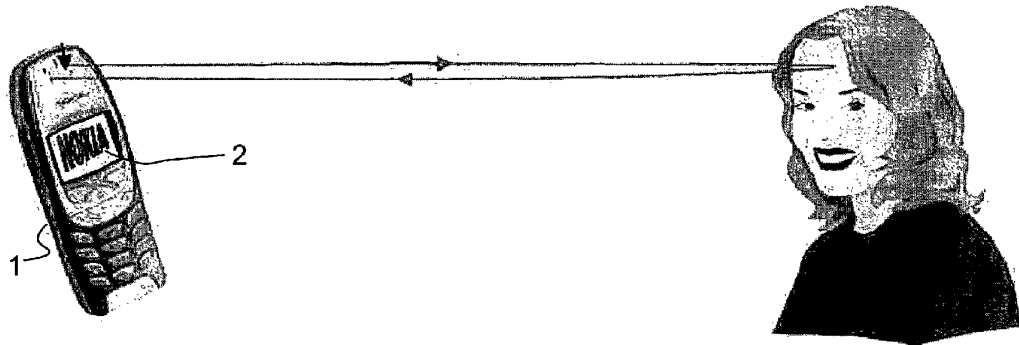


Fig 2b



### Description

**[0001]** The present invention relates to a method for controlling the displaying of information in an electronic device comprising means for displaying visual information. The invention also relates to an electronic device comprising means for displaying visual information.

**[0002]** Electronic devices of various types are known, in which information is presented visually on a display or the like. This information is for example text-format information and/or image information. However, the size of the electronic device sets its own limits as to how large a display can be installed in the electronic device. For example, portable electronic devices, such as wireless stations, laptop PCs, palmtop PCs, or personal digital assistants (PDA), have a display of a relatively small size. Thus, the information to be displayed can be so small that the user may have difficulties in deciphering the information. On the other hand, in some electronic devices, it is possible to enlarge details, for example the font size, wherein the information on the display becomes more legible to the user. However, the enlargement of details reduces the quantity of information that can be displayed at a time, which may complicate the understanding of the information. This kind of a situation may occur, for example, when the user is writing a text message, of which only a small part is visible at a time. In this case, when the user wishes to check such a part of the text message which is not visible on the display, he/she must search for the correct text portion. In some situations, this may be relatively difficult and significantly slow down the writing of the text message.

**[0003]** In some cases, the user may have a need to view the information on the display when he/she is farther away from the electronic device. For example, when a call comes in a wireless station, the number of the calling telephone and/or the name data of the calling person are normally displayed on the display of the wireless station. If the user is not right next to the wireless station, he/she does not necessarily decipher who is calling. Thus, the user moves closer to check the number/name of the calling person and to decide whether to answer the call or not.

**[0004]** However, the user may find him/herself in such a place, *e.g.* on a ladder, that he/she does not have the time or does not want to check the caller until the call attempt is disconnected, *e.g.* when the calling person cuts off or the call is transferred to an answering service. In such a situation, the user must afterwards find out from the incoming call data who tried to reach him/her.

**[0005]** There are known wireless stations which apply means for measuring a distance. In this context, such means are primarily called proximity sensors, but such means are also known as distance sensors. The aim of such means is to determine whether the user is close to the electronic device. Thus, when a call comes in, it is determined whether there is a need to turn on the speaker function of the wireless station, if the user is farther

away from the phone but still within hearshot. The user can answer the call *e.g.* by waving his/her hand, wherein the call is switched on and the speaker function is activated, if necessary.

**[0006]** It is an aim of the present invention to provide a function for zooming information to be displayed, based on the proximity of the user, as well as an electronic device in which displayed information can be zoomed on the basis of the distance between the user and the electronic device. The invention is based on the idea of measuring the distance between the user and the electronic device, and this distance information is used in the zooming of information to be displayed. The user can determine parameters to affect *e.g.* whether the information is enlarged or reduced when the distance between the user and the electronic device is changed. More precisely, the method according to the present invention is primarily characterized in that the distance between the user and the electronic device is measured, and the size of information to be displayed is changed when the distance between the user and the electronic device is changed. The electronic device according to the invention is primarily characterized in that it also comprises means for measuring the distance between the user and the electronic device, and means for changing the size of displayed information when the distance between the user and the electronic device is changed.

**[0007]** The present invention shows remarkable advantages over solutions of prior art. When applying the method of the invention, the size of displayed information can be changed according to the need, wherein the legibility of the information can be significantly improved in comparison with solutions of prior art. Furthermore, the user has a possibility to set the parameters, according to which the change in the information size is determined, wherein the user can improve the usability of the electronic device according to his/her own preferences. The method according to the invention is useful *e.g.* for such persons who find it difficult to read a small font. Thus, the information size can be enlarged, if necessary, when the user is close to the electronic device. Also, sharp-sighted persons may utilize the property of zooming visual information according to the invention, for example by reducing the displayed information when the user is close to the electronic device. In this way, it is possible to increase the quantity of information displayed at a time. In a corresponding manner, when the user is farther away from the electronic device, the information size can be enlarged, and particularly sharp-sighted persons can still find the displayed information legible.

**[0008]** In the following, the invention will be described in more detail with reference to the appended drawings, in which

Fig. 1 shows an electronic device according to a preferred embodiment of the invention in a

- reduced block chart,
- Fig. 2a illustrates an example situation, in which the user is close to the electronic device,
- Fig. 2b shows an example situation, in which the user is farther away from the electronic device than in the situation of Fig. 2a,
- Fig. 3a shows an example of information to be displayed on the display of the electronic device,
- Fig. 3b, shows the displayed information according to the example situation of Fig. 3a, when zoomed to a larger size,
- Fig. 4a shows another example of information to be displayed on the display of the electronic device, and
- Fig. 4b shows the information according to Fig. 4a when zoomed to a smaller size.

**[0009]** The following detailed description of the invention presents, as an example, an electronic device 1 as shown in Fig. 1, comprising means 2 for displaying visual information. For clarity, these means 2 will below be called a display. Typically, the display consists of picture elements (pixels), whose brightness can be changed to display the desired visual information. The display 2 can be a colour display or a monochrome display, but this feature is not significant as such for the present invention. The electronic device 1 also comprises a control block 3 with at least one processor 4, such as a microcontroller unit (MCU), and possibly also a digital signal processing unit (DSP). The control block also comprises logic functions 5 as well as access logic 6 (Input/Output, IO), e.g. for communication between other functional units and the processor 4. Furthermore, the electronic device 1 comprises a memory 7 which preferably contains at least a read only memory (ROM) 7a and a random access memory (RAM) 7b. The read only memory 7a can also be, either completely or in part, implemented by means of a non-volatile random-access memory, such as EEPROM or FLASH. The read only memory 7a is intended for the storage of e.g. control software, application software, permanent data and the like in the electronic device. The random access memory 7b can be used, for example, for the storage of changeable information required during the use of the electronic device 1. In this preferred embodiment, a part of the random access memory is implemented by using a non-volatile random access memory 7c, wherein it is possible to store in this memory, for example, information which does not need to be changed often, e.g. user profile data, telephone directory data, calendar data, etc. The user interface 9 of the wireless terminal 1 comprises

means for presenting data, such as a display 2 and an earpiece/speaker 10, as well as means for entering data, such as one or more keypads 11 and a microphone 12. Furthermore, the electronic device comprises means 13, 14 for measuring a distance. These means 13, 14 for measuring a distance preferably comprise a proximity sensor 13 as well as measuring means 14 for measuring the signal of the proximity sensor 13. The measuring means 14 comprise, for example, an analog-to-digital converter or the like, whereby analog signal strength information is converted to digital format. Mobile station functions 8 comprise, for example, a transmitter and a receiver (not shown), by means of which the electronic device 1 can communicate with the mobile communication network in a way known as such. However, it should be mentioned that the present invention can also be applied in such electronic devices which do not comprise mobile station functions or other communication functions.

**[0010]** The electronic device 1 used can be an electronic device equipped with data processing functions, such as a personal computer (PC), a laptop PC, a palm-top PC, a personal digital assistant (PDA), a wireless station, such as a mobile station or a communication device, or the like. In the following, more detailed description of the invention, a non-restrictive example used of the electronic device 1 is a communication device which comprises not only data processing functions but also mobile station functions 8.

**[0011]** Proximity sensors are primarily based on the reflection of a signal transmitted by the proximity sensor from an object, such as the user. The proximity sensor measures the strength and/or propagation time of the reflected signal and, on the basis of this, forms an output signal proportional to the distance. In proximity sensors based on signal strength, the strength of the output signal is typically proportional to the distance. In proximity sensors based on measuring the propagation time, the output signal can directly indicate the propagation time, wherein, on the basis of it, it is possible to compute the distance, when the signal propagation rate in the medium (air) is known. The measuring signal of the proximity sensor is typically either an optical signal (laser/LED) or an audio signal (ultrasound). The measuring range is typically in the order of 0.3 m to 100 m for proximity sensors based on an optical signal and in the order of 0.05 m to 10 m for proximity sensors based on an audio signal. In view of applying the present invention, the type of the proximity sensor 13 used is not significant as such. More important criteria on selecting the proximity sensor 13 include e.g. weight, size, price, power consumption, reliability, failure probability, resistance to vibrations, and required operating voltages.

**[0012]** In the electronic device 1 according to a preferred embodiment of the invention, the distance is measured by measuring the strength of the signal formed by the proximity sensor 13 and determining, on the basis of this signal strength, the distance between

the user and the electronic device 1. There are also known proximity sensors which form an output signal which directly indicates the distance between the user and the electronic device 1. In this case, the distance information is obtained directly from this signal. In the start-up procedure, for example, the strength of the signal of the proximity sensor 13 is measured without steps of comparing signal strengths.

**[0013]** The parameters related to the displaying of information can be set by the user, if necessary, or the original settings can be used. These settings are preferably stored in a non-volatile random access memory 7c, wherein previously stored parameters are available also later without a need to set them in connection with every start-up. These parameters can be set, for example, by enlarging the size of information to be displayed on the display 2 when the user moves farther away from the electronic device 1, or *vice versa*.

**[0014]** We shall next describe the example situation of Fig. 2a, in which the user of the electronic device is close to the electronic device 1. The user turns on the electronic device 1, wherein the running of the start-up program is started in the processor 4. In the start-up program, the strength of the signal formed by the proximity sensor 13 is determined by reading the measuring result of the measuring means 14. This measuring result is indicated by the measuring means 14 preferably in digital format, wherein it can be stored in the random access memory 7b. After the running of the start-up program, the use of the electronic device 1 can be started.

**[0015]** In the electronic device 1, distance measurements are taken at intervals and, if necessary, a new measuring result is stored in place of the outdated measuring result. The processor 4 compares the measuring result stored at the start-up stage, *i.e.* the signal strength of the proximity sensor, with the updated signal strength, and determines, on the basis of the comparison (signal strengths), how far away the user is from the electronic device. This distance information does not necessarily need to indicate the real distance but a relative distance. For example, a table is stored in the memory 7 of the electronic device, containing information about how the ratio between the signal strength at the start-up stage and the signal strength measured during the use is dependent on how far away the user is from the electronic device 1. If the proximity sensor 13 directly indicates this distance, this information can naturally be directly used.

**[0016]** Let us assume that the user has set the parameters so that the size of information displayed on the display 2 is enlarged when the user moves farther away from the electronic device 1. Thus, after completion of the distance measuring result, it is examined if the distance has changed from the preceding measurement to such an extent that there is a need to change the size of information to be displayed on the display 2. If there is a need for change, the processor 4 preferably examines if the distance has decreased or increased. If the

distance has increased (*e.g.*, the situation of Fig. 2b in comparison with Fig. 2a), the processor 4 changes the display parameters so that the information size is enlarged. This enlargement of the size may be proportional to the change in the distance, but also other principles can be applied. In some situations, the enlargement of the information size means that all the information cannot be displayed on the display 2 simultaneously, wherein a choice must be made, which part of the information is to be left out. This may vary in different situations. For example, when there is an incoming call, the display 2 preferably presents the information (name/phone number/image of calling person) which best fits in enlarged size on the display 2. An advantageous example of this is shown in Fig. 3b, in which a part of the information of Fig. 3a is displayed in enlarged form on the display 2. In a corresponding manner, when the distance is reduced, the information size can be reduced, wherein also a greater part of the information to be displayed will fit simultaneously on the display 2. When the user writes *e.g.* a text message or makes a call, the distance is relatively small, wherein in this alternative, the information can be displayed in a relatively small font size. Thus, the user will see a large part of the text message simultaneously. Another example of such situations is shown in Fig. 4a, in which information is enlarged, and Fig. 4b shows the information of Fig. 4a zoomed to a smaller font size.

**[0017]** In such a case in which the user has set the display parameters so that the information size is enlarged when the distance is reduced, the steps to be taken are largely similar to those presented above, except that the change in the font size is substantially reverse. After the completion of a new measuring result, the processor 4 compares the signal strength of the start-up stage with the most recent measuring result and, on the basis of this comparison, determines whether the distance has been changed. If the distance has been reduced, the information size is increased, and, in a corresponding manner, if the distance has been increased, the information size is reduced. This kind of an operation is useful particularly for weak-sighted persons, because the information size is relatively large when the user is close to the electronic device. In a corresponding manner, when the user is farther away from the electronic device, it is of less significance, what is displayed, wherein the information can be displayed in a relatively small font size. This is also useful for such a person who is far-sighted rather than short-sighted. Also a far-sighted person finds information with a large font size more legible at a close distance. In a corresponding manner, as the information size is reduced when the distance is slightly increased, the user's far-sightedness makes it possible for the user to still find the information with a smaller font size legible.

**[0018]** Due to the above-mentioned short- or far-sightedness, the changes in the font size of displayed information can also be made in such a way that the

direction of the change is not the same when the change in the distance is made in the same direction. For example, for a short-sighted user, a small font size can be used at closer distances and the font size can be increased when the distance is slightly increased. When the distance is further increased so long that the displayed information is not legible even in the large font size, the information size can be reduced again.

**[0019]** It has been presented above that the processor compares the new measuring result with the measuring result stored at the start-up stage and thereby determines the distance. In some situations, it is also possible to compare the new measuring result with an earlier (*e.g.* preceding) measuring result during the use and to use this comparison data in determining the need to change the information font size.

**[0020]** The change in the distance does not necessarily always cause a change in the information size. For example, in a situation in which the distance is changed only slightly, it is not always sensible to change the information size on the display 2 but first at the stage when the distance has been sufficiently changed. By means of the hysteresis produced in this way, too frequent changes are avoided and unnecessary loading of the processor 4 is reduced.

**[0021]** It is also possible to perform the distance measurement and change the information size by a certain command. Therefore, the user gives the command by *e.g.* uttering a voice command or by pressing a key of the keypad 11 when he/she wishes the distance measurement and possible changes on the information size to be performed. This kind of arrangement can be used *e.g.* for avoiding irritations and unintentional re-scaling caused, for example, by other people passing by.

**[0022]** The functions according to the invention can be largely implemented in the application software of the processor 4. In the storage of some permanent setting values, it is possible to use the read only memory 7a and/or the non-volatile random access memory, which is known as such. Such setting values include, for example, tables which are used in the measuring of the distance, *etc.*

**[0023]** It is obvious that the present invention is not limited solely to the above-presented embodiments, but it can be modified within the scope of the appended claims.

#### Claims

1. A method for controlling the displaying of information in an electronic device (1) comprising means (2) for displaying visual information, **characterized in that** the distance between the user and the electronic device (1) is measured, and the size of information to be displayed on the display (2) is changed when the distance between the user and the electronic device (1) is changed.

2. The method according to claim 1, **characterized in that** the first distance measurement is taken in connection with turning on of the electronic device (1), at least a second distance measurement is taken during the use of the electronic device (1), and that the change in the distance is determined from the ratio between the first distance measurement and said at least one second distance measurement.

3. The method according to claim 1 or 2, **characterized in that** the measurement of the distance is based on measuring a change in signal strength.

4. The method according to claim 1 or 2, **characterized in that** the measurement of the distance is based on measuring a signal propagation time.

5. The method according to claim 1, 2, 3, or 4, **characterized in that** the size of information to be displayed on the display (2) is enlarged when the distance between the user and the electronic device (1) is increased.

6. The method according to claim 1, 2, 3, or 4, **characterized in that** the size of information to be displayed on the display (2) is reduced when the distance between the user and the electronic device (1) is increased.

7. An electronic device (1) comprising means (2) for displaying visual information, **characterized in that** it also comprises means (13, 14) for measuring the distance between the user and the electronic device (1), and means (4, 7) for changing the size of displayed information when the distance between the user and the electronic device (1) is changed.

8. The electronic device (1) according to claim 7, **characterized in that** the means (13, 14) for measuring the distance of the user comprise a proximity sensor (13).

9. The electronic device (1) according to claim 7 or 8, **characterized in that** it comprises means (4, 13, 14) for taking the first distance measurement in connection with turning on of the electronic device (1), means for taking at least one second distance measurement during the use of the electronic device (1), and means (4, 7) for determining a change in the distance from the ratio between the first distance measurement and said at least one second distance measurement.

10. The electronic device (1) according to claim 7, 8 or 9, **characterized in that** it comprises means (4) for enlarging the size of information to be displayed on the display (2) when the distance between the user and the electronic device (1) is increased.

- 11. The electronic device (1) according to claim 7, 8 or 9, **characterized in that** it comprises means (4) for reducing the size of information to be displayed on the display (2) when the distance between the user and the electronic device (1) is increased. 5
  
- 12. The electronic device (1) according to any of the claims 7 to 11, **characterized in that** it comprises means (11, 12) for setting a correlation between the direction of change in the distance and the direction of change in the size of information to be displayed on the display (2). 10
  
- 13. The electronic device (1) according to any of the claims 7 to 12, **characterized in that** it is a wireless station. 15

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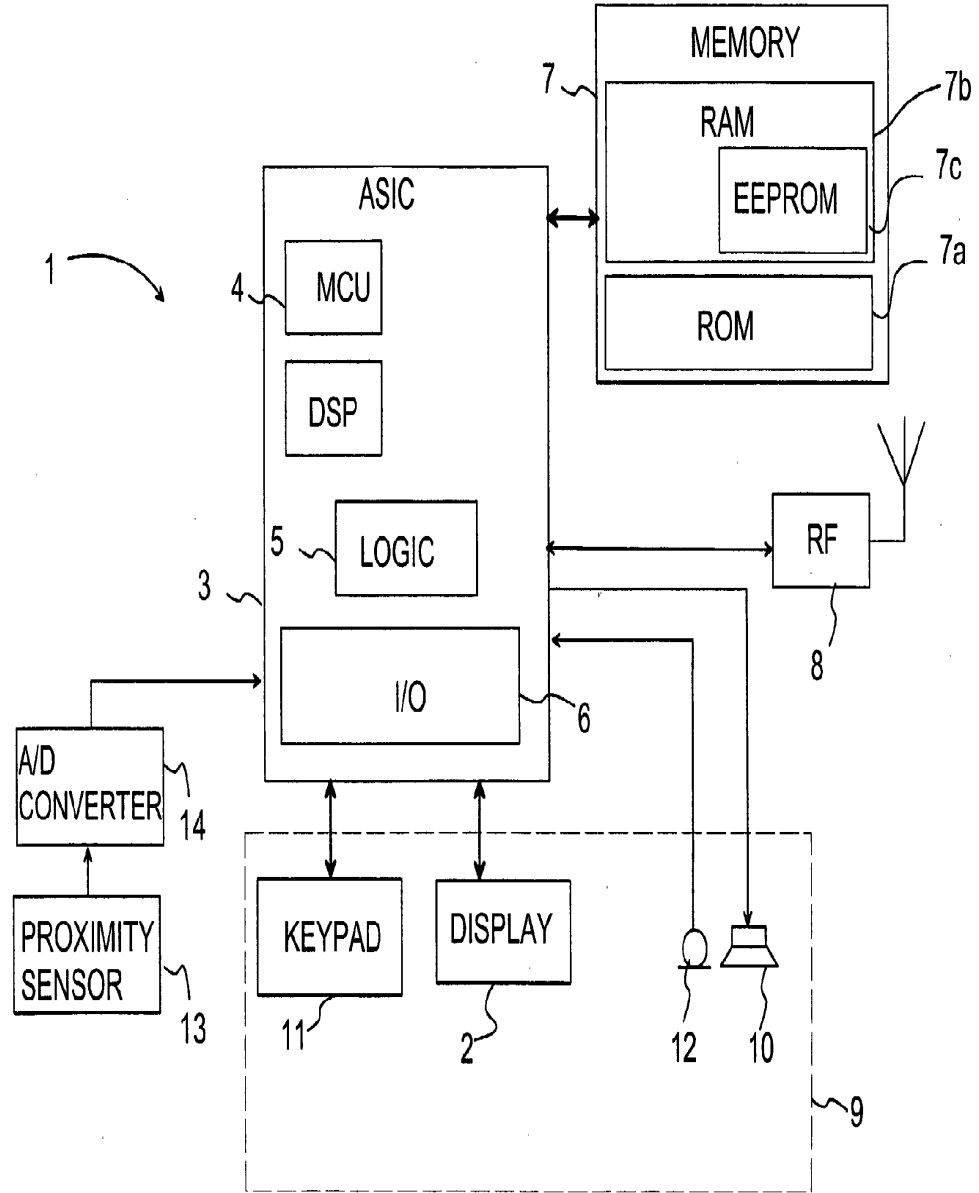


Fig 1

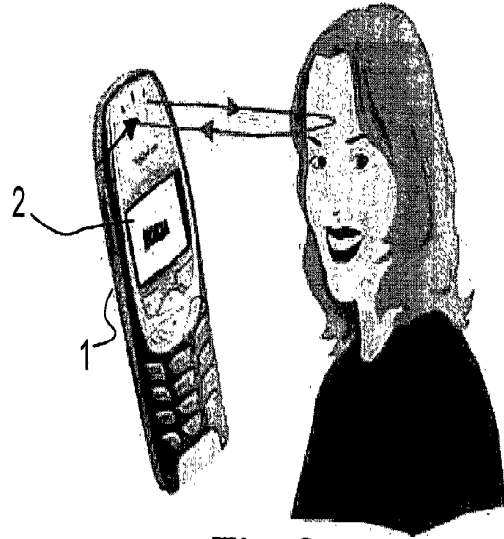


Fig 2a

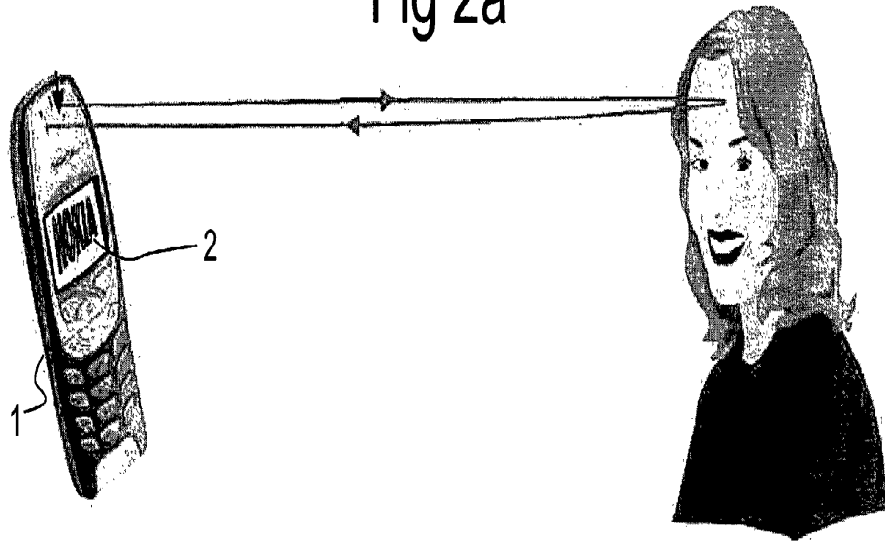


Fig 2b

Carl calling  
from number  
0501234567

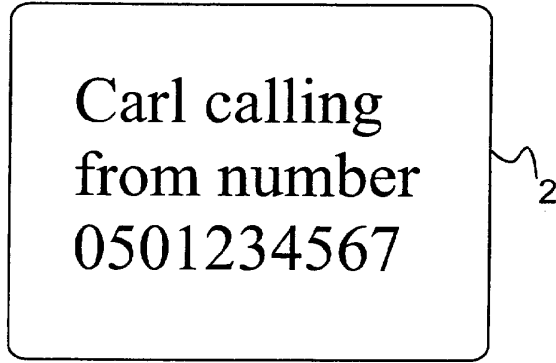


Fig 3a

050123  
4567

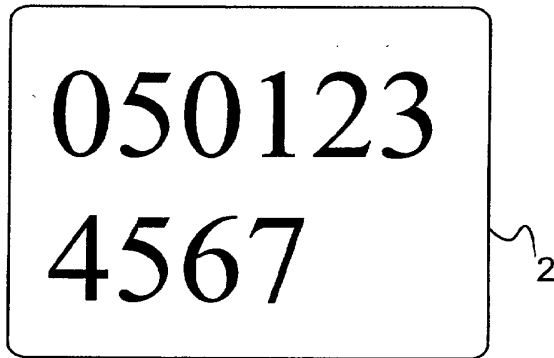
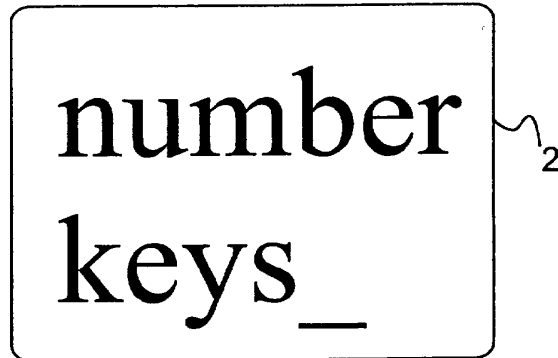


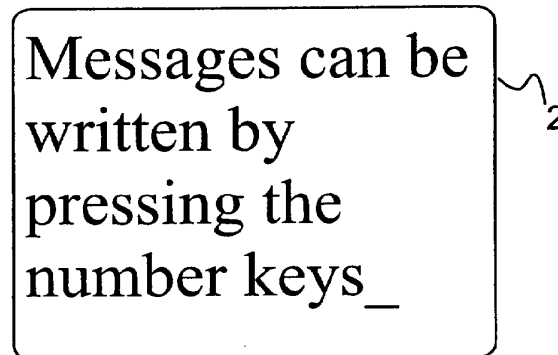
Fig 3b





number  
keys\_

Fig 4a



Messages can be  
written by  
pressing the  
number keys\_

Fig 4b



European Patent Office

EUROPEAN SEARCH REPORT

Application Number  
EP 02 39 6166

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	WO 01 27727 A (GATEWAY INC) 19 April 2001 (2001-04-19) * abstract * * page 2, line 26 - line 28 * * page 6, line 16 - page 7, line 9; figure 1A * * page 11, line 2 - page 12, line 8; figures 6A,6B,7 * ---	1-5, 7-10,13	G06F1/16 H04M1/247
X	EP 0 405 826 A (SONY CORP) 2 January 1991 (1991-01-02) * column 3, line 13 - column 4, line 10 * * column 4, line 20 - line 47; figures 1,2 * * column 5, line 46 - column 6, line 31 * ---	1,2,6,7, 9,11	
E	WO 02 093331 A (HANNULA MANNE ;MYORIGO OY (FI); VAEAENAENEN JOHANNES (FI)) 21 November 2002 (2002-11-21) * page 16, line 9 - line 36; figure 6 * * page 18, line 22 - page 19, line 14; figures 7A-7D * * page 20, line 25 - line 33 * ---	1,6-8, 11,13	
A	WO 01 27735 A (MYORIGO OY ;METSAEVAINIO JUKKA PEKKA (FI)) 19 April 2001 (2001-04-19) * abstract * * page 2, line 29 - page 3, line 4; figures 1,2 * * page 7, line 34 - page 8, line 10 * -----	12	
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>4 April 2003</b>	Examiner <b>Schröter, P</b>
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

EPO FORM 1503 03/02 (P/AC01)

ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

EP 02 39 6166

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

04-04-2003

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WO 0127727 A	19-04-2001	AU 7679000 A	23-04-2001
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		NO 20021647 A	22-05-2002

EPO FORM P/0499

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	28631918
<b>Application Number:</b>	14680422
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	5691
<b>Title of Invention:</b>	SYSTEM AND METHOD FOR STREAMLINING USER INTERACTION WITH ELECTRONIC CONTENT
<b>First Named Inventor/Applicant Name:</b>	Yves Behar
<b>Customer Number:</b>	23628
<b>Filer:</b>	Marcus E. Browne/Lynn McNamara
<b>Filer Authorized By:</b>	Marcus E. Browne
<b>Attorney Docket Number:</b>	L2039.70004US03
<b>Receipt Date:</b>	15-MAR-2017
<b>Filing Date:</b>	07-APR-2015
<b>Time Stamp:</b>	10:56:57
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

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

### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	L203970004US03-TRN-MEB.pdf	74131 9a7adda6f178f1757a3d737a958b0f2a4fed0e6	no	1

### Warnings:

<b>Information:</b>					
2		L203970004US03-IDS-MEB.pdf	91487 60c9e9d1d172902bf5948ec2719a69f915167f55	yes	4
<b>Multipart Description/PDF files in .zip description</b>					
		<b>Document Description</b>	<b>Start</b>	<b>End</b>	
		Transmittal Letter	1	3	
		Information Disclosure Statement (IDS) Form (SB08)	4	4	
<b>Warnings:</b>					
<b>Information:</b>					
3	Foreign Reference	EP1316877A1.pdf	657324 11657a3279a5e8c23ca2d6a1e8a33a4e0685c579	no	13
<b>Warnings:</b>					
<b>Information:</b>					
4	Other Reference-Patent/App/Search documents	L203970004EP00_ER_dated_01-17-2017.pdf	287260 faf1a12be4f9df0bc4b8e5702740bf64cc3a11ea	no	8
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>				1110202	
<p><b>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.</b></p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b>  <b>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.</b></p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b>  <b>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.</b></p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b>  <b>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.</b></p>					

<h1>TRANSMITTAL FORM</h1> <p><i>(to be used for all correspondence after initial filing)</i></p>	Application Number	14/680,422-Conf. #5691
	Filing Date	April 7, 2015
	First Named Inventor	Yves Behar
	Art Unit	2141
	Examiner Name	Claudia B. Dragoescu
Total Number of Pages in This Submission	Attorney Docket Number	L2039.70004US03

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Form PTO - 1449 Copies of cited references
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	WOLF, GREENFIELD & SACKS, P.C.		
Signature	/Marcus E. Browne/		
Printed name	Marcus E. Browne		
Date	March 15, 2017	Reg. No.	71,897

<b>Certificate of Electronic Filing under 37 CFR §1.8</b> I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office's electronic filing system in accordance with 37 CFR § 1.6(a)(4).	
Dated: _____03-15-2017_____	Signature: ___/Lynn P. McNamara/_____ (Lynn P. McNamara)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Yves Behar  
Application No.: 14/680,422  
Confirmation No.: 5691  
Filed: April 07, 2015  
For: SYSTEM AND METHOD FOR STREAMLINING USER  
INTERACTION WITH ELECTRONIC CONTENT  
Examiner: Claudia B. Dragoescu  
Art Unit: 2141

---

**CERTIFICATE OF ELECTRONIC FILING UNDER 37 C.F.R. § 1.8**

The undersigned hereby certifies that this paper, along with any paper referred to as being attached or enclosed, is being transmitted via the Office electronic filing system in accordance with § 1.6(a)(4), on the 15<sup>th</sup> day of March, 2017.

\_\_\_\_\_/Lynn P. McNamara/\_\_\_\_\_  
Lynn P. McNamara

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**MAIL STOP AMENDMENT**

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

STATEMENT FILED PURSUANT TO THE DUTY OF  
DISCLOSURE UNDER 37 C.F.R. §§ 1.56, 1.97 AND 1.98

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, the undersigned requests consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. § 1.97

This Information Disclosure Statement has been filed before the mailing of a first Office Action on the merits in the above-identified case.

No fee or certification is required.

PART II: Information Cited

The undersigned hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified PTO/SB/08). The order of

presentation of the references should not be construed as an indication of the importance of the references.

The undersigned hereby makes the following additional information of record in the above-identified application.

The undersigned would like to bring to the Examiner's attention the following co-pending application that may contain subject matter related to this application:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor(s)</u>	<u>Docket No.</u>
†15/394,492	12-29-2016	Behar et al.	L2039.70001US05

†A copy of this reference is not provided as the Office has waived the requirement under 37 C.F.R. § 1.98(a)(2)(iii) for submitting a copy of a cited U.S. patent application if it is scanned to the Image File Wrapper system and is available on Private PAIR.

The undersigned would like to bring to the Examiner's attention the enclosed search report or other communication from a corresponding or related International or Foreign National Application:

<u>Serial No.</u>	<u>Date of Mailing</u>	<u>Type(s) of Communication</u>	<u>Docket No.</u>
EP 09755433.1	01-17-2017	European Examination Report	L2039.70004EP00

### PART III: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 (modified PTO/SB/08) be signed by the Examiner to evidence that the cited information has been fully considered by the United States Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.



By submitting this Information Disclosure Statement, the undersigned makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the undersigned makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

By submitting this Information Disclosure Statement, the undersigned makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. § 102.

Notwithstanding any statements by the undersigned, the Examiner is urged to form his or her own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

The Director is hereby authorized to charge any deficiency or credit any overpayment in the fees occasioned by the filing of this Information Disclosure Statement to our Deposit Account No. 23/2825 under Docket No. L2039.70004US03 from which the undersigned is authorized to draw.

Respectfully submitted,

By: /Marcus E. Browne/  
Marcus E. Browne, Reg. No. 71,897  
Wolf, Greenfield & Sacks, P.C.  
600 Atlantic Avenue  
Boston, Massachusetts 02210-2206  
Telephone: (617) 646-8000

Docket No.: L2039.70004US03  
Date: March 15, 2017  
**xNDDx**